



August 2, 1995  
92CB040

EMM  
21  
95 AUG -1- 11

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502

**Subject: Continental Baking Company, 1010 46th Street, Oakland, CA  
Quarterly Groundwater Monitoring Report**

Dear Ms. Hugo:

In response to your letter to Mr. Fred Dannecker, Continental Baking Company (CBC), requesting quarterly groundwater monitoring reporting, this letter report is being submitted. Woodward-Clyde Consultants is providing environmental consulting services to CBC and is submitting this report on their behalf.

#### **GROUNDWATER ELEVATION**

Water level measurements were performed on June 12, 1995 by WCC personnel. Water levels were measured in monitoring wells MW-1, 2 and 3 with an electronic water level sounder and recorded to the nearest 0.01 foot. Table 1 summarizes the groundwater elevation variation in the three monitoring wells since the first investigation at the CBC Oakland facility in May, 1994. Figure 1 is a location map of the CBC facility. Figure 2 is a groundwater elevation contour map for the event reported in the present quarterly report.

The reported results from the water elevation measurements are the following:

- In the second quarter of 1995, the groundwater elevation has fallen to about 50 to 54 feet above mean sea level (MSL).
- The groundwater flow direction was estimated to be towards the southwest.

The reported results during this quarter are generally consistent with previous results. The groundwater elevation fall may be attributed to seasonal variations.

# Woodward-Clyde

Ms. Susan Hugo  
August 2, 1995  
Page 2

## ANALYTICAL RESULTS

Sampling activities were also performed in June, 1995 by WCC personnel. A copy of the field water sample logs are attached.

Prior to sampling, an oil/water interface probe was used to detect the presence of an immiscible layer. No measurable immiscible layer was detected in any of the wells.

The wetted casing volume was calculated for each well and approximately 4 casing volumes were removed from each well prior to sampling. In addition to the groundwater samples collected from the three monitoring wells, one duplicate sample was collected from well MW-1 and labelled MW-4. Samples were submitted for analysis for Total Petroleum Hydrocarbons (TPH) and quantified as Diesel (TPHd, modified EPA Method 8015) and gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylene (BTEX, EPA Method 8020) and Total Recoverable Petroleum Hydrocarbons by Standard Method 5520BF. Sample analyses were performed by Anametrix Laboratories, San Jose, California. Copies of the laboratory data sheets and the chain-of-custody form are attached.

A quality assurance/quality control review of the analytical data was performed by a WCC chemist. The results of the review indicated that the data are of acceptable quality.

The reported results from the June, 1995 sampling and analysis effort are summarized in Table 2, and are the following:

- TPHg was detected at a concentration of 11000  $\mu\text{g/L}$  in MW-1.
- TPHd was detected at a concentration of 810  $\mu\text{g/L}$  in MW-1 and 120  $\mu\text{g/L}$  in MW-3. Neither matched the diesel standard chromatograph, however.
- Concentrations of BTEX were detected in monitoring well MW-1.
- None of the analytes were detected in MW-2.
- Oil and Grease was not detected in any of the wells.

The reported results from this sampling and analysis effort are generally consistent with results reported for samples from these wells during the past year, although levels of all constituents decreased in MW-1.

# Woodward-Clyde

Ms. Susan Hugo  
August 2, 1995  
Page 3

If you have any questions, please feel free to phone me at (510) 874-3138.

Sincerely,



Jo Beth Folger, P.E.



## Attachments

c: Fred Dannecker, CBC-SF  
Carl Eklund, CBC-SL  
Jim Hummert, WCC-SL

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATION**  
**CONTINENTAL BAKING COMPANY, OAKLAND, CA**

Well Identification	Date	Top of Casing Elevation (feet above MSL)	Depth to water (feet below top of casing)	Water Surface Elevation (feet above MSL)
MW-1	5/26/94	61.84	9.27	52.57
	7/29/94	61.84	9.81	52.03
	8/26/94	61.84	9.87	51.97
	10/4/94	61.84	9.89	51.95
	10/27/94	61.84	9.94	51.90
	11/30/94	61.84	8.92	52.92
	1/3/95	61.84	8.79	53.05
	1/31/95	61.84	8.33	53.51
	3/16/95	61.84	8.07	53.77
	6/12/95	61.84	9.02	52.82
MW-2	5/26/94	63.10	9.30	53.80
	7/29/94	63.10	9.70	53.40
	8/26/94	63.10	9.89	53.21
	10/4/94	63.10	9.86	53.24
	10/27/94	63.10	9.96	53.14
	11/30/94	63.10	8.95	54.15
	1/3/95	63.10	8.15	54.95
	1/31/95	63.10	6.96*	56.14
	3/16/95	63.10	6.37*	56.73
	6/12/95	63.10	9.07	54.03
MW-3	5/26/94	62.51	12.88	49.63
	7/29/94	62.51	13.61	48.90
	8/26/94	62.51	13.71	48.80
	10/4/94	62.51	13.74	48.77
	10/27/94	62.51	13.77	48.74
	11/30/94	62.51	11.85	50.66
	1/3/95	62.51	12.09	50.42
	1/31/95	62.51	10.64	51.87
	3/16/95	62.51	10.79	51.72
	6/12/95	62.51	12.05	50.46

\* Noted to be under pressure when opened.

TABLE - 2

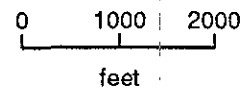
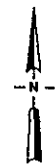
SUMMARY OF ANALYTICAL RESULTS  
CONTINENTAL BAKING COMPANY, OAKLAND, CALIFORNIA

Parameters	TPH diesel	TPH gasoline	TPH BTEX				total oil & grease	
			benzene	toluene	ethyl-benzene	total zylenes		
EPA Method	8015		8020				5520 BF	
Units	(µg/L)		(µg/L)				(mg/L)	
Well Number	Date							
MW-1	5/26/94	1300	12000	57	340	370	3100	<5.0
	8/26/94	510 <sup>1</sup> /650 <sup>1</sup>	6700/8400	22/35	71/97	310/410	1000/1400	<5.0/<5.0
	11/30/94	1300	29000	480	1100	1200	5300	<5.0
	3/16/95	1900	29000	140	1400	1800	9700	<5.0
	6/12/95	810 <sup>1</sup> /540 <sup>1</sup>	3900/11000	23/280	57/610	200/400	680/2000	<5.0/<5.0
MW-2	5/26/94	<50/<50	<50/<50	0.50/<0.50	0.50/<0.50	0.50/<0.50	0.50/<0.50	<5.0
	8/26/94	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/30/94	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	3/16/95	<50/<50	<50/<50	<0.50/<0.50	<0.50/<0.50	<0.50/<0.50	<0.50/<0.50	<5.0
	6/12/95	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0
MW-3	5/26/94	99	<50	<0.50	<0.50	<0.50	1.7	<5.0
	8/26/94	66 <sup>2</sup>	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/30/94	78/85	100/100	<0.50/1.9	<0.50/0.50	<0.50/1.0	2.1/4.3	<5.0
	3/16/95	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	6/12/95	120 <sup>2</sup>	<50	<0.50	<0.50	<0.50	<0.50	<5.0

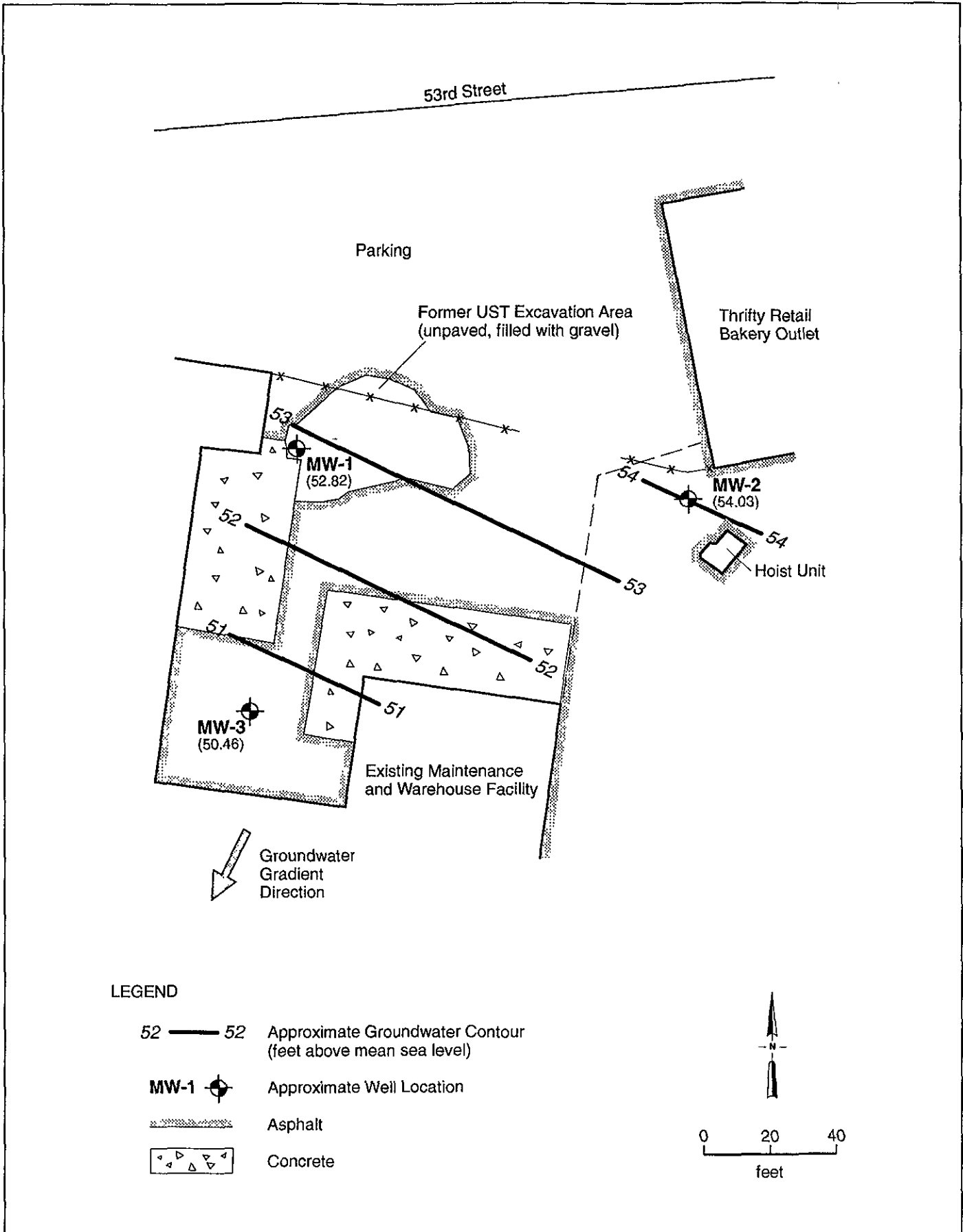
Results of duplicate sample analyses are shown by a dash ("/")

<sup>(1)</sup> Primarily due to lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline.

<sup>(2)</sup> Primarily due to heavier petroleum product of hydrocarbon range C18-C36.



Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, California	SITE LOCATION	Figure 1
<b>Woodward-Clyde Consultants</b>			



Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, CA	GROUNDWATER ELEVATION CONTOURS JUNE 12, 1995	Figure 2
Woodward-Clyde Consultants			

Sample No.

# WATER SAMPLE LOG

Sample No. MW-1

Project No.: 92CB040 Date: 6-12-95  
 Project Name: CBC-Oakland  
 Sample Location: MW-1  
 Well Description: 4" PVC w/locking cap  
 Weather Conditions: clear, warm

Observations / Comments: Duplicate labeled MW-4 @ 15:40

### Quality Assurance

Sampling Method: Disposable bailer  
 Method to Measure Water Level: 200' Solinst

Pump Lines: (New) / Cleaned Bailer Lines: (New) / Cleaned  
 Method of cleaning Pump / Bailer: N/A  
 pH Meter No.: 217256 Calibrated 4.00/10.01  
 Specific Conductance Meter No.: F8016588 Calibrated red-lined  
 Comments: TD=20.20-9.02=11.18x.653=7.3x4=29.2 gal.

### Sampling Measurements

Water Level (below MP) at Start: 9.02 End: 9.03  
 Measuring Point (MP): North Rim Top of Casing

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1430	5	7.01	19.2	462	LOW	CLR	slight HC?	
1433	10	6.94	19.4	438	"	"	"	
1437	15	6.92	19.2	420	"	"	ND	
1440	20	6.91	19.0	390	"	"	"	
1444	25	6.93	19.1	418	"	"	"	
1447	30	6.93	19.1	422	"	"	"	
1605	A.S	6.90	19.4	417	"	"	"	

Total Discharge: 31 gallons Casing Volumes Removed: 4.25  
 Method of disposal of discharged water: 55 gal. drum  
 Number and size of sample containers filled: @16.00;

Collected by: J. HAUS

**Woodward-Clyde Consultants**  
 500 12th Street, Suite 100, Oakland, CA 94607-4014  
 (415) 893-3600



Sample No.

# WATER SAMPLE LOG

Sample No. MW-2

Project No.: 9ZCB040 Date: 6-12-95  
 Project Name: CBC - Oakland  
 Sample Location: MW-2  
 Well Description: 4" PVC w/locking cap  
 Weather Conditions: clear, warm  
 Observations / Comments: \_\_\_\_\_

### Quality Assurance

Sampling Method: Disposable bailer  
 Method to Measure Water Level: 200' Solinst  
 Pump Lines: (New) / Cleaned Bailer Lines: (New) / Cleaned  
 Method of cleaning Pump / Bailer: NA  
 pH Meter No.: 217256 Calibrated 4.00/10.01  
 Specific Conductance Meter No.: F8016588 Calibrated red-lined  
 Comments: TD = 19.55 - 9.07 = 10.48 x 6.53 = 6.8 x 4 = 27.4

### Sampling Measurements

Water Level (below MP) at Start: 9.07 End: 10.37  
 Measuring Point (MP): North Rim, Top of Casing

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1315	5	6.84	19.4	390	MOD.	CLOUDY	ND	
1318	10	6.89	19.2	410	"	"	"	
1324	15	6.82	19.2	405	"	"	"	dry @ 16
1345	20	6.90	19.3	389	"	"	"	dry @ 23
1459	24	6.88	19.3	414	"	"	"	
1508	28	6.88	19.3	411	"	"	"	
1644	A.S.	6.86	19.2	416	LOW	CLR	ND	

Total Discharge: 29 gallons Casing Volumes Removed: 4.24  
 Method of disposal of discharged water: 55 gallon drum  
 Number and size of sample containers filled: @1640;

Collected by: J. HAUS

**Woodward-Clyde Consultants**  
 500 12th Street, Suite 100, Oakland, CA 94607-4014  
 (415) 893-3600

Sample No.

# WATER SAMPLE LOG

Sample No. MW-3

Project No.: 92CB040 Date: 6-12-95

Project Name: CBC-Oakland

Sample Location: MW-3

Well Description: 4" sch. 40 PVC w/locking cap

Weather Conditions: clear, warm

Observations / Comments:

### Quality Assurance

Sampling Method: Disposable bailer

Method to Measure Water Level: 200' Solinst

Pump Lines:  New /  Cleaned Bailer Lines:  New /  Cleaned

Method of cleaning Pump / Bailer: N/A

pH Meter No.: 217256 Calibrated 4.00/10.01

Specific Conductance Meter No.: F8016588 Calibrated red-lined

Comments: TD = 19.44 - 12.05 = 7.39 x 1.653 = 4.83 x 4 = 19.3 gal.

### Sampling Measurements

Water Level (below MP) at Start: 12.05 End: 12.17

Measuring Point (MP): North Rim, Top of Casing

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1250	5	6.85	18.4	1080	7100	GREY GREEN	H/S	dry @ 5.5
1259	10	7.02	18.1	960	"	"	"	dry @ 10
1401	15	6.98	18.2	920	"	"	"	dry @ 15.5
1422	20	6.96	18.2	950	"	"	"	dry @ 20
1623	A.S.	6.96	18.2	910	LOW CLR	ND		

Total Discharge: 21 gallons Casing Volumes Removed: 4.35

Method of disposal of discharged water: 55 gallon drum

Number and size of sample containers filled: @1620;

Collected by: J. HAUS

**Woodward-Clyde Consultants**  
 500 12th Street, Suite 100, Oakland, CA 94607-4014  
 (415) 893-3600



# Inchcape Testing Services

## Anametrix Laboratories

1961 Concourse Drive  
Suite E  
San Jose, CA 95131  
Tel: 408-432-8192  
Fax: 408-432-8198

MS. JOBETH FOLGER  
WOODWARD-CLYDE CONSULTANTS  
500 12TH STREET, SUITE 100  
OAKLAND, CA 94607-4041

Workorder # : 9506180  
Date Received : 06/13/95  
Project ID : 92CB040  
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9506180- 1	MW-4
9506180- 2	MW-1
9506180- 3	MW-3
9506180- 4	MW-2
9506180- 5	T.BLANK

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

*Susan Kraska Yeager*  
Susan Kraska Yeager  
Laboratory Director

*Cristina V. Hayden*  
Project Manager

6/23/95  
Date

This report consists of 16 pages.

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MS. JOBETH FOLGER  
WOODWARD-CLYDE CONSULTANTS  
500 12TH STREET, SUITE 100  
OAKLAND, CA 94607-4041

Workorder # : 9506180  
Date Received : 06/13/95  
Project ID : 92CB040  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9506180- 1	MW-4	WATER	06/12/95	TPHd
9506180- 2	MW-1	WATER	06/12/95	TPHd
9506180- 3	MW-3	WATER	06/12/95	TPHd
9506180- 4	MW-2	WATER	06/12/95	TPHd
9506180- 1	MW-4	WATER	06/12/95	TPHgBTEX
9506180- 2	MW-1	WATER	06/12/95	TPHgBTEX
9506180- 3	MW-3	WATER	06/12/95	TPHgBTEX
9506180- 4	MW-2	WATER	06/12/95	TPHgBTEX
9506180- 5	T.BLANK	WATER	05/26/95	TPHgBTEX

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MS. JOBETH FOLGER  
WOODWARD-CLYDE CONSULTANTS  
500 12TH STREET, SUITE 100  
OAKLAND, CA 94607-4041

Workorder # : 9506180  
Date Received : 06/13/95  
Project ID : 92CB040  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- The concentrations reported as diesel for samples MW-4 and MW-1 are primarily due to the presence of a lighter petroleum product of hydrocarbon range C6-C14, possibly gasoline.
- The concentration reported as diesel for sample MW-3 is due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18-C36, possibly motor oil.

Cheryl Bolman 6/21/95  
Department Supervisor Date

Luceo Sher 6/21/95  
Chemist Date

**Organic Analysis Data Sheet**  
**Total Petroleum Hydrocarbons as Gasoline with BTEX**  
**ITS - Anametrix Laboratories - (408)432-8192**

Lab Workorder : 9506180

Client Project ID : 92CB040

Matrix : WATER

Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		MW-4	MW-1	MW-3	MW-2	T.BLANK
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9506180-01	9506180-02	9506180-03	9506180-04	9506180-05
Benzene	0.50	280	23	ND	ND	ND
Toluene	0.50	610	57	ND	ND	ND
Ethylbenzene	0.50	400	200	ND	ND	ND
Total Xylenes	0.50	2000	680	ND	ND	ND
TPH as Gasoline	50	11000	3900	ND	ND	ND
Surrogate Recovery		116%	90%	109%	106%	107%
Instrument ID		HP6	HP6	HP6	HP6	HP6
Date Sampled		06/12/95	06/12/95	06/12/95	06/12/95	05/26/95
Date Analyzed		06/15/95	06/16/95	06/15/95	06/15/95	06/15/95
RLMF		100	25	1	1	1
Filename Reference		FPU18001.D	FRU18002.D	FPU18003.D	FPU18004.D	FPU18005.D

\* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.

TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.

BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Deena Shor 6/21/95  
 Analyst Date

Cheryl Belman 6/21/95  
 Supervisor Date

Organic Analysis Data Sheet  
 Total Petroleum Hydrocarbons as Gasoline with BTEX  
 ITS - Anamatrix Laboratories - (408)432-8192

Lab Workorder : 9506180  
 Matrix : WATER

Client Project ID : 92CB040  
 Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		METHOD BLANK	METHOD BLANK			
Benzene	0.50	ND	ND			
Toluene	0.50	ND	ND			
Ethylbenzene	0.50	ND	ND			
Total Xylenes	0.50	ND	ND			
TPH as Gasoline	50	ND	ND			
Surrogate Recovery		103%	95%			
Instrument ID		HP6	HP6			
Date Sampled		N/A	N/A			
Date Analyzed		06/15/95	06/16/95			
RLMF		1	1			
Filename Reference		BU1502E1.D	BU1601E1.D			

\* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.

TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.

BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Peggie Dawson 6/23/95  
 Analyst Date

Mary J. [Signature]  
 Supervisor Date

**Matrix Spike Report**  
**Total Petroleum Hydrocarbons as Gasoline**  
**ITS - Anametrix Laboratories - (408)432-8192**

Project ID : 92CB040  
Sample ID : Batch Spike  
Matrix : WATER  
Date Sampled : 06/12/95

Laboratory ID : 9506175-03  
Analyst : RD  
Supervisor : *os*  
Instrument ID : HP6  
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Gasoline	500	ND	86%	96%	48-149	-11%	30
Surrogate Recovery		100%	92%	103%			
Date Analyzed		06/15/95	06/15/95	06/15/95			
Multiplier		1	1	1			
Filename Reference		FPU17503.D	FMU17503.D	FDU17503.D			

\* Limits established by Inchcape Testing Services, Anametrix Laboratories.



**Laboratory Control Spike Report**  
**Total Petroleum Hydrocarbons as Gasoline**  
**ITS - Anametrix Laboratories - (408)432-8192**

Instrument ID : HP6

Analyst : RD

Matrix : LIQUID

Supervisor : 0

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	92%	56-141
Surrogate Recovery		97%	61-139
Date Analyzed		06/15/95	
Multiplier		1	
Filename Reference		MU1501E1.D	

\* Limits established by Incheape Testing Services, Anametrix Laboratories.

**Laboratory Control Spike Report**  
**Total Petroleum Hydrocarbons as BTEX**  
**ITS - Anametrix Laboratories - (408)432-8192**

Instrument ID : HP6  
 Matrix : LIQUID

Analyst : RD  
 Supervisor : y  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	LCSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Benzene	20	100%	115%	52-133	-14%	30
Toluene	20	106%	117%	57-136	-10%	30
Ethylbenzene	20	105%	113%	56-139	-7%	30
Total Xylenes	20	109%	118%	56-141	-8%	30
Surrogate Recovery		103%	106%	61-139		
Date Analyzed		06/16/95	06/16/95			
Multiplier		1	1			
Filename Reference		MU1602E1.D	NU1603E1.D			

\* Limits established by Incheape Testing Services, Anametrix Laboratories.



**TOTAL PETROLEUM HYDROCARBONS AS DIESEL**  
**INCHCAPE TESTING SERVICES - ANAMETRIX**  
(408) 432-8192

**LABORATORY CONTROL SAMPLE REPORT**

Client Project ID:	92CB040	Anametrix ID:	MU1412F9
Matrix:	WATER	Date Released:	6/21/95
Date Extracted:	6/14/95	Instrument ID:	HP29
Date Analyzed:	6/15/95	Concentration Units:	ug/L

<u>COMPOUND</u>	<u>SPIKE</u>	<u>LCS</u>	<u>% REC</u>	<u>LCSD</u>	<u>%REC</u>	
<u>NAME</u>	<u>AMT</u>	<u>CONC</u>	<u>LCS</u>	<u>CONC</u>	<u>LCSD</u>	<u>RPD</u>
Diesel	1250	1220	98%	1230	98%	1%
o-Terphenyl			97%		101%	

Quality control limits for LCS/LCSD recovery are 38-96%

Quality control limits for RPD(relative percent difference) are +/- 18%.

Quality control limits for o-terphenyl recovery are 67-103%.

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MS. JOBETH FOLGER  
WOODWARD-CLYDE CONSULTANTS  
500 12TH STREET, SUITE 100  
OAKLAND, CA 94607-4041

Workorder # : 9506180  
Date Received : 06/13/95  
Project ID : 92CB040  
Purchase Order: N/A  
Department : PREP  
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9506180- 1	MW-4	WATER	06/12/95	5520BF
9506180- 2	MW-1	WATER	06/12/95	5520BF
9506180- 3	MW-3	WATER	06/12/95	5520BF
9506180- 4	MW-2	WATER	06/12/95	5520BF

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MS. JOBETH FOLGER  
WOODWARD-CLYDE CONSULTANTS  
500 12TH STREET, SUITE 100  
OAKLAND, CA 94607-4041

Workorder # : 9506180  
Date Received : 06/13/95  
Project ID : 92CB040  
Purchase Order: N/A  
Department : PREP  
Sub-Department: PREP

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- Insufficient water sample was received for a Matrix Spike and Matrix Spike Duplicate analysis for Method 5520BF. A Laboratory Control Sample and a Laboratory Control Sample Duplicate were extracted and analyzed instead.

Jobeth Folger 6/20/95  
Department Supervisor Date

Angelica King 6/20/95  
Chemist Date

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS  
 INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORY (408) 432-8192

PROJECT I.D. : 92CB040	ANAMETRIX I.D. : 9506180
MATRIX : WATER	ANALYST : <i>AK</i>
DATE SAMPLED : 06/12/95	SUPERVISOR : <i>R</i>
DATE EXTRACTED : 06/16/95	DATE RELEASED : 06/20/95
DATE ANALYZED : 06/19/95	

WORKORDER #	SAMPLE I.D.	REPORTING LIMIT (mg/L)	AMOUNT FOUND (mg/L)
9506180-01	MW-4	5.0	ND
9506180-02	MW-1	5.0	ND
9506180-03	MW-3	5.0	ND
9506180-04	MW-2	5.0	ND
BU1611W4	METHOD BLANK	5.0	ND

ND - Not detected above the reporting limit for the method.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520BF.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS  
 INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE  
 Matrix : WATER  
 Date Extracted : 06/16/95  
 Date Analyzed : 06/19/95

Anametrix I.D. : M/NU1611W4  
 Analyst : AK  
 Supervisor : BW  
 Date Released : 06/19/95

COMPOUND	SPIKE AMT. (mg/L)	LCS (mg/L)	%REC LCS	LCSD (mg/L)	%REC LCSD	% RPD	REC LIMITS
MOTOR OIL	50	44	88	45	90	2	44-128

\* Quality control limits established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520BF.







**SAMPLE RECEIVING CHECKLIST**

WORKORDER NUMBER: 9506180

CLIENT PROJECT ID: 92CB040

**COOLER**

Shipping slip (airbill, etc.) present?	YES	NO	<input checked="" type="radio"/> N/A
If YES, enter carrier name and airbill # : _____			
Custody Seal on the outside of cooler?	YES	NO	<input checked="" type="radio"/> N/A
Condition: INTACT _____ BROKEN _____			
Temperature of sample (s) within range?	<input checked="" type="radio"/> YES	NO	N/A
List temperature of cooler (s): <u>5°C</u>			

**SAMPLES**

Chain of custody seal present for each container?	YES	NO	<input checked="" type="radio"/> N/A
Condition: INTACT _____ BROKEN _____			
Samples arrived within holding time?	<input checked="" type="radio"/> YES	NO	N/A
Samples in proper containers for methods requested?	<input checked="" type="radio"/> YES	NO	
Condition of containers: INTACT <input checked="" type="checkbox"/> BROKEN _____			
If NO, were samples transferred to proper container? _____			
Were VOA containers received with zero headspace?	<input checked="" type="radio"/> YES	NO	N/A
If NO, was it noted on the chain of custody? _____			
Were container labels complete? (ID, date, time preservative, etc.)	<input checked="" type="radio"/> YES	NO	
Were samples preserved with the proper preservative?	<input checked="" type="radio"/> YES	NO	N/A
If NO, was the proper preservative added at time of receipt? _____			
pH check of samples required at time of receipt?	YES	<input checked="" type="radio"/> NO	
If YES, pH checked and recorded by: _____			
Sufficient amount of sample received for methods requested?	<input checked="" type="radio"/> YES	NO	
If NO, has the client or lab project manager been notified? _____			
Field blanks received with sample batch? # of Sets: _____	YES	NO	<input checked="" type="radio"/> N/A
Trip blanks received with sample batch? # of Sets: <u>1</u>	<input checked="" type="radio"/> YES	NO	N/A

**CHAIN OF CUSTODY**

Chain of custody received with samples?	<input checked="" type="radio"/> YES	NO	
Has it been filled out completely and in ink?	<input checked="" type="radio"/> YES	NO	
Sample ID's on chain of custody agree with container labels?	<input checked="" type="radio"/> YES	NO	
Number of containers indicated on chain of custody agree with number received?	<input checked="" type="radio"/> YES	NO	
Analysis methods clearly specified?	<input checked="" type="radio"/> YES	NO	
Sampling date and time indicated?	<input checked="" type="radio"/> YES	NO	
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	<input checked="" type="radio"/> YES	NO	
Turnaround time? REGULAR <input checked="" type="checkbox"/> RUSH _____			

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: Carina Date: 6/14/95

Project Manager: CUR Date: 6/23/95