

ALCO  
HAZMAT  
94 OCT 19 AM 11:52

October 14, 1994

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 July 29, August 26, and October 4, 1994 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. Figures 2, 3, and 4 are groundwater elevation contour maps for the last three months reported in the present quarterly report.

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

- Since July, 1994, The groundwater elevation has ranged from about 49 to 53 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 variation may be attributed to seasonal and precipitation variations.

Ms. Susan Hugo  
October 14, 1994  
Page 2

## **ANALYTICAL RESULTS**

Sampling activities were performed in August, 1994 by WCC personnel. A copy of the field water sample logs are attached.

Prior to well development and 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). 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 August 1994 sampling and analysis effort are summarized in Table 2, and are the following:

- TPHg was detected at a concentration of 8400 µg/L in MW-1. No TPHg was detected in MW-2 or MW-3.
- TPHd was detected at a concentration of 650 and 66 µg/L in samples from wells MW-1 and 3 respectively. No TPHd was detected in well MW-2.
- Concentrations of BTEX were detected in monitoring well MW-1.
- The laboratory notes that their results reported as diesel for the sample and duplicate from well MW-1 are primarily due to the presence of a lighter hydrocarbon, possibly gasoline.

The reported results from this sampling and analysis effort are generally consistent with results reported for samples from these wells in May, 1994 although concentrations have decreased.

Ms. Susan Hugo  
October 14, 1994  
Page 3

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

Sincerely,



Jo Beth Folger

Attachments

c: Fred Dannecker, CBC-SF  
Charles Gjersvik, 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
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
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

TABLE - 2

SUMMARY OF ANALYTICAL RESULTS  
CONTINENTAL BAKING COMPANY, OAKLAND, CALIFORNIA

Parameters	TPH diesel	TPH gasoline	TPH BTEX					
			benzene	toluene	ethyl- benzene	tot. zylenes	tot. oil & grease	
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
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
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

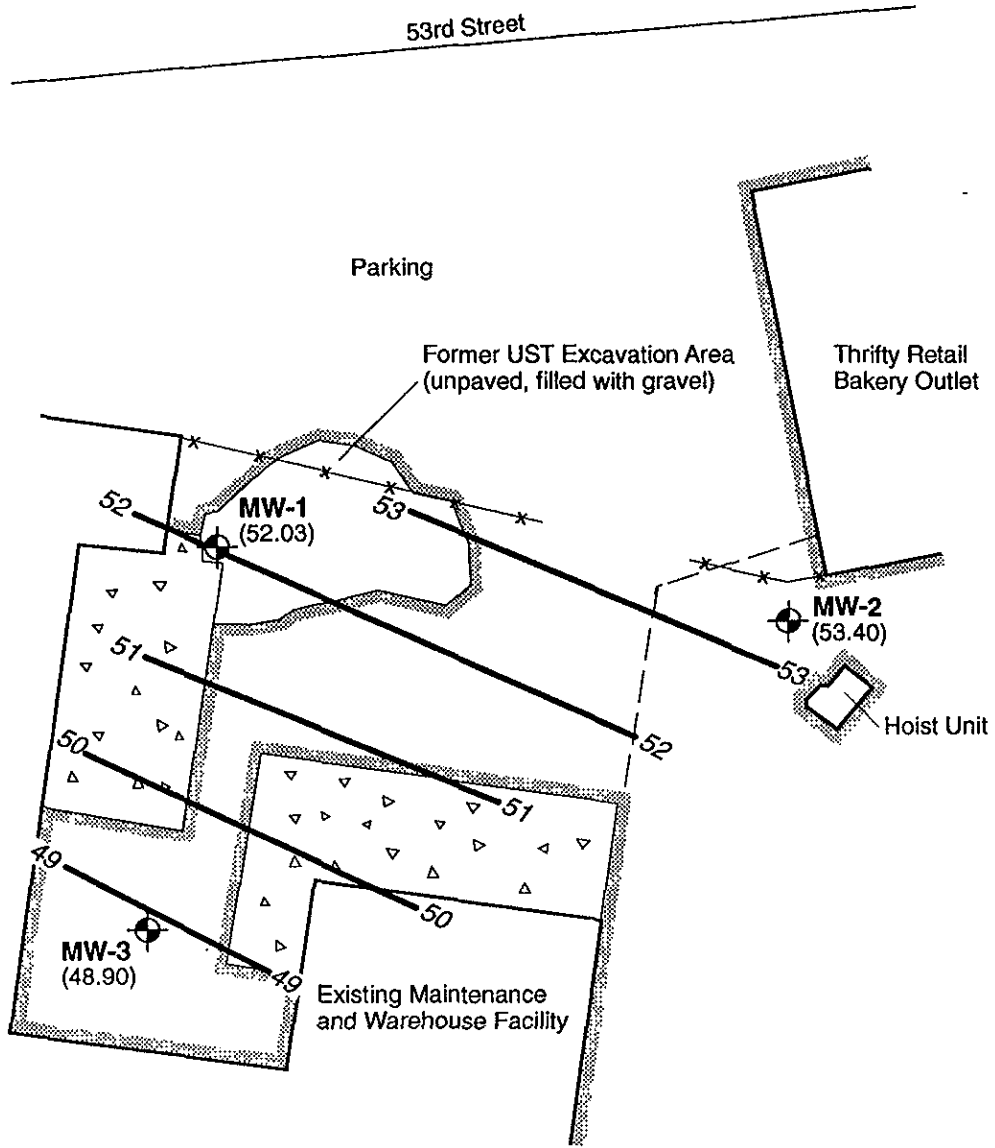
Results of duplicate sample analyses are shown by a dash ("/")

<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

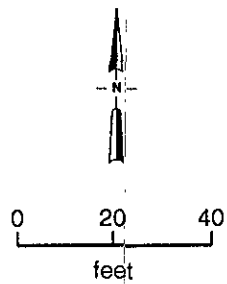


Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, California	SITE LOCATION	Figure 1
<b>Woodward-Clyde Consultants</b>			

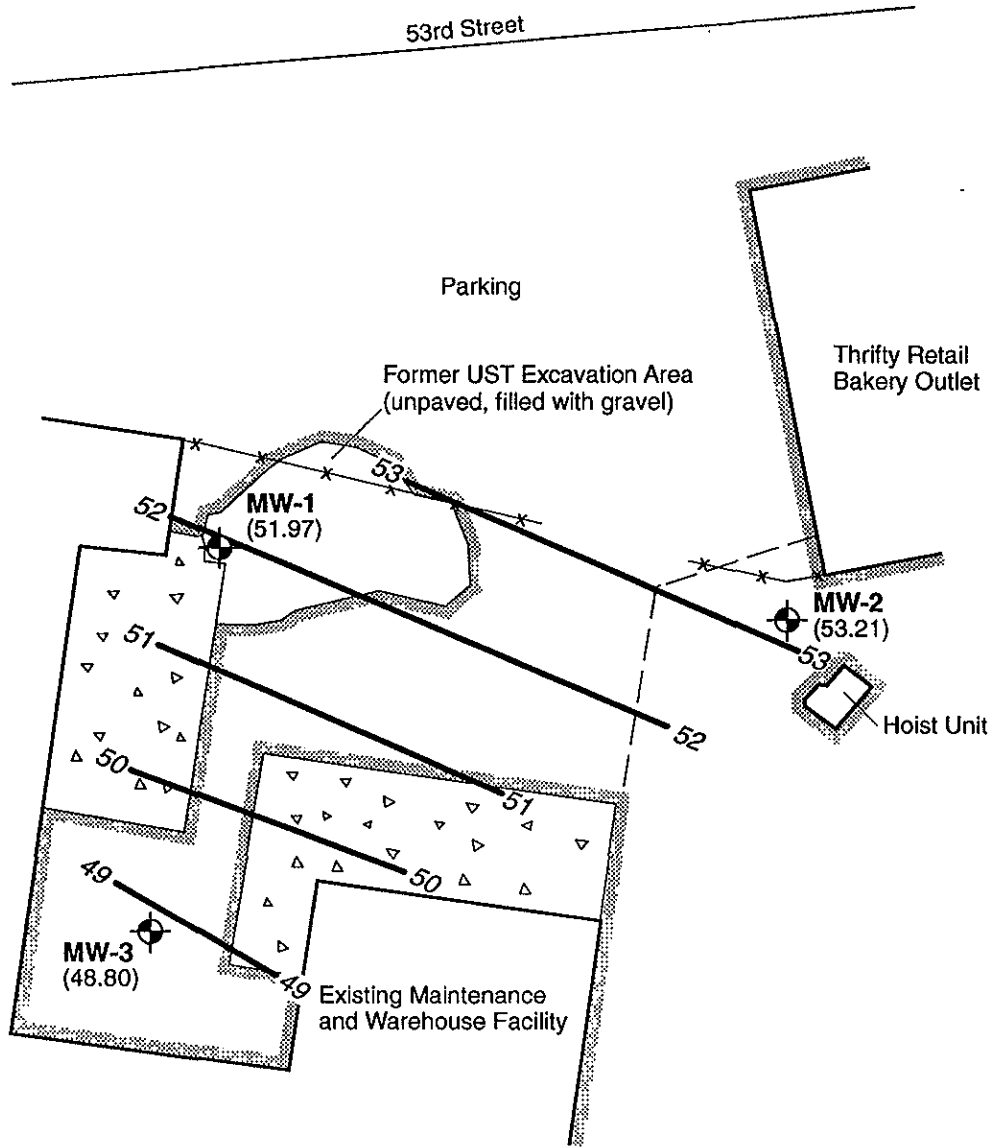


LEGEND

- 52 ——— 52    Approximate Groundwater Contour (feet above mean sea level)
- MW-1       Approximate Well Location
- Asphalt
- Concrete

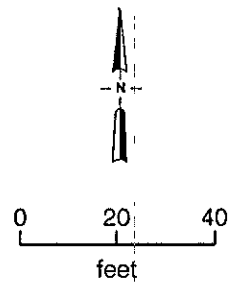


Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, CA	GROUNDWATER ELEVATION CONTOURS JULY 29, 1994	Figure 2
<b>Woodward-Clyde Consultants</b>			



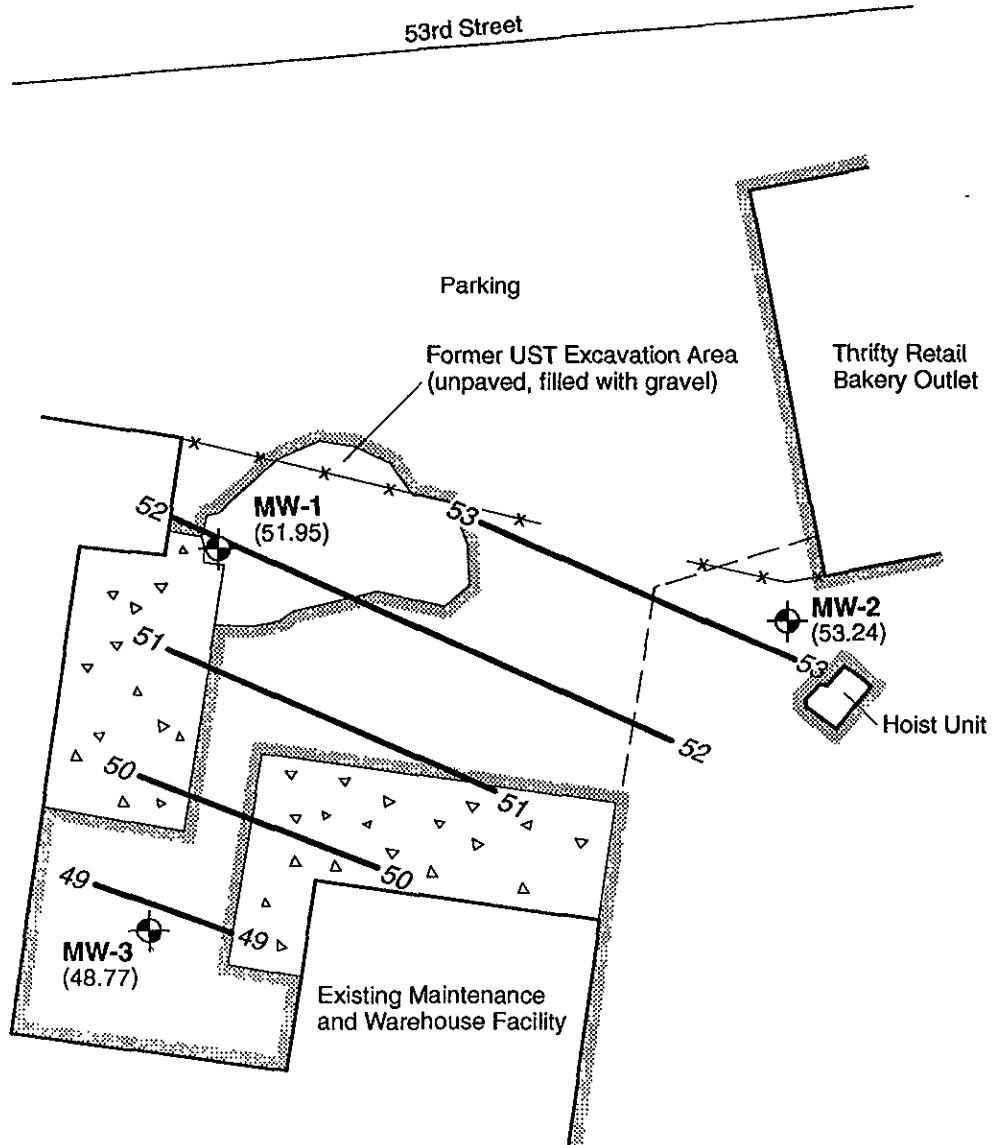
**LEGEND**

- 52 — 52      Approximate Groundwater Contour  
(feet above mean sea level)
- MW-1      Approximate Well Location
- Asphalt
- Concrete




Project No. 92CB040	Continental Baking Company 1010 46th Street Oakland, CA	<b>GROUNDWATER ELEVATION CONTOURS</b> AUGUST 26, 1994	Figure 3
<b>Woodward-Clyde Consultants</b>			





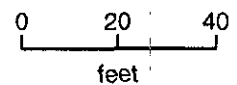
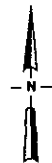
**LEGEND**

52 — 52 Approximate Groundwater Contour  
(feet above mean sea level)

MW-1  Approximate Well Location

 Asphalt

 Concrete



Project No.  
92CB040

Continental Baking Company  
1010 46th Street  
Oakland, CA

**GROUNDWATER ELEVATION CONTOURS**  
OCTOBER, 4 1994

Figure  
4

**Woodward-Clyde Consultants**

Sample No.

8/23/94 JBF  
Analyze all H<sub>2</sub>O samples for:  
TPH gasoline / BTEX 8015/8020  
TPH diesel 8015  
Total Oil & Grease EPA 5520 E F

8/26/94  
Well ID      V      TD  
MW-1      9.87      20.20' No Measurable FPLH (Strong odor)  
MW-2      9.89      19.55' No Measurable FPLH (No odor)  
MW-3      13.71      19.44' No Measurable FPLH (No odor)

# WATER SAMPLE LOG

Sample No. MW-3

Project No.: 92CB040      Date: 8-26-94  
Project Name: CBC - Oakland  
Sample Location: MW-3  
Well Description: 4" Sch 40 PVC w/watertight locking cap  
Weather Conditions: Sunny, clear and warm  
Observations / Comments: 9/16" wrench and Dolphin key to access well  
Purged w/centrifugal pump

## Quality Assurance

Sampling Method: Disposable PVC Bailer  
Method to Measure Water Level: 200' Solinst

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

Method of cleaning Pump / Bailer: \_\_\_\_\_

pH Meter No.: 217254      Calibrated 8/26 7.00 0.25<sup>°C</sup>

Specific Conductance Meter No.: 13748      Calibrated Ted Lillard

Comments: TD = 19.44 - 13.71 = 5.73 x 0.653 = 3.7 x 4 = 14.8 gal. (4 CV)

## Sampling Measurements

Water Level (below MP) at Start: 13.71      End: \_\_\_\_\_  
Measuring Point (MP): Notch on Top of casing

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos/cm)	Turbidity	Color	Odor	Comments
1059	3	7.25	19.8	1000	7100	2122 Green	None	
1101	5.5	7.04	19.6	960	7100	"	"	Purged Dry @ 5.5 gallons
1130	9.5	6.84	20	920	>1000	"	"	Dry @ 9.5 gallons
1154	12.5	7.20	20.2	900	7100	"	"	
1156	15	6.81	20	900	7100	"	"	Dry @ 15 gals.
1456	A.S.	6.92	20	880	56	Cloudy grey	"	

Total Discharge: \_\_\_\_\_      Casing Volumes Removed: \_\_\_\_\_  
Method of disposal of discharged water: 55 gallon drum  
Number and size of sample containers filled: c 1450

Collected by: S. Penman / 5 Hrs

**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.: 92CB040 Date: 8-26-94  
 Project Name: CBC Oakland  
 Sample Location: MW-2  
 Well Description: 4" Sch. 40 PVC w/water-tight locking cap.  
 Weather Conditions: Clear Sunny & Warm  
 Observations / Comments: 9/16" wrench and Dolphin key to access well.

### Quality Assurance

Sampling Method: Disposable PVC Bailer  
 Method to Measure Water Level: 200' Salinist  
 Pump Lines: (New) / Cleaned Bailer Lines: (New) / Cleaned  
 Method of cleaning Pump / Bailer: \_\_\_\_\_  
 pH Meter No.: 217254 Calibrated 8/26 10.0 @ 25°C  
 Specific Conductance Meter No.: 13748 Calibrated Red Line  
 Comments:  $TD = 19.55 - 9.89 = 9.66 \times .653 = 6.3 \times 4 = 25.2$

### Sampling Measurements

Water Level (below MP) at Start: 9.89 End: \_\_\_\_\_  
 Measuring Point (MP): Notch on Top of Casing

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1111	4	7.31	20.5	346	39	Slightly cloudy	NONE	
1114	8	7.34	21	352	29	Clear	"	
1120	12	7.23	20.5	356	51	Cloudy grey	"	
1122	16	7.20	20.5	368	53	"	"	
1126	20	7.26	20.8	370	59	"	"	Purged dry @ 22 gallons
1402	25.5	7.35	20.5	398	48	"	"	
1510	A.S.	7.45	20.7	370	21	clear	"	

Total Discharge: 27 gal Casing Volumes Removed: \_\_\_\_\_  
 Method of disposal of discharged water: 55 gallon Drum  
 Number and size of sample containers filled: @ 1505

Collected by: S. Penman / S. Haas

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

Sample No.

# WATER SAMPLE LOG

Sample No. MW-1

Project No. : \_\_\_\_\_ Date: \_\_\_\_\_

Project Name: \_\_\_\_\_

Sample Location: \_\_\_\_\_

Well Description: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Observations / Comments: \_\_\_\_\_

### Quality Assurance

Sampling Method: \_\_\_\_\_

Method to Measure Water Level : \_\_\_\_\_

Pump Lines: \_\_\_\_\_ New / Cleaned \_\_\_\_\_ Bailer Lines: \_\_\_\_\_ New / Cleaned \_\_\_\_\_

Method of cleaning Pump / Bailer: \_\_\_\_\_

pH Meter No : \_\_\_\_\_ Calibrated \_\_\_\_\_

Specific Conductance Meter No.: \_\_\_\_\_ Calibrated \_\_\_\_\_

Comments: \_\_\_\_\_

### Sampling Measurements

Water Level (below MP) at Start: 9.87 End: 10.22

Measuring Point (MP): \_\_\_\_\_

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1412	5	7.14	21	<del>438</del>	43	clear	light	
1415	10	7.15	21	450	73	cloudy gray	"	
1417	15	7.23	21	425	72	"	"	
1420	20	7.24	21	413	56	"	"	
1423	24	7.23	21	421	47	light gray	"	
1426	28	7.26	21	412	51	"	"	
1445	AS	7.05	22	410	46	"	"	

Total Discharge: \_\_\_\_\_ Casing Volumes Removed: \_\_\_\_\_

Method of disposal of discharged water: \_\_\_\_\_

Number and size of sample containers filled: 2 1430

MW-4 Duplicates @ 1300

Collected by: \_\_\_\_\_

**Woodward-Clyde Consultants**

500 12th Street, Suite 100, Oakland, CA 94607-4014  
(415) 863-3600



# Inchcape Testing Services

## Anamatrix Laboratories

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

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

Workorder # : 9408317  
 Date Received : 08/26/94  
 Project ID : 92CB040  
 Purchase Order: N/A

The following samples were received at Anamatrix for analysis :

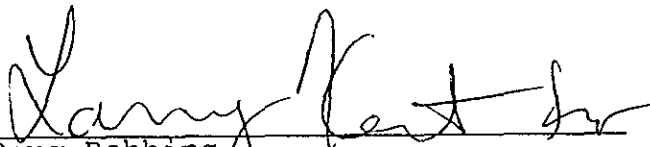
ANAMATRIX ID	CLIENT SAMPLE ID
9408317- 1	T.BLANK
9408317- 2	MW-4
9408317- 3	MW-1
9408317- 4	MW-3
9408317- 5	MW-2

This report is organized in sections according to the specific Anamatrix 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 Anamatrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anamatrix 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 us as soon as possible. Thank you for using Anamatrix.

  
 Doug Robbins  
 Laboratory Director

9-12-94  
 Date

This report consists of 15 pages.

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

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

Workorder # : 9408317  
Date Received : 08/26/94  
Project ID : 92CB040  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9408317- 2	MW-4	WATER	08/26/94	TPHd
9408317- 3	MW-1	WATER	08/26/94	TPHd
9408317- 4	MW-3	WATER	08/26/94	TPHd
9408317- 5	MW-2	WATER	08/26/94	TPHd
9408317- 1	T.BLANK	WATER	08/24/94	TPHgBTEX
9408317- 2	MW-4	WATER	08/26/94	TPHgBTEX
9408317- 3	MW-1	WATER	08/26/94	TPHgBTEX
9408317- 4	MW-3	WATER	08/26/94	TPHgBTEX
9408317- 5	MW-2	WATER	08/26/94	TPHgBTEX

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

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

Workorder # : 9408317  
Date Received : 08/26/94  
Project ID : 92CB040  
Purchase Order: N/A  
Department : GC  
Sub-Department: TPH-

QA/QC SUMMARY :

- The concentration reported as diesel for sample MW-3 is primarily due to the presence of a heavier petroleum product of hydrocarbon range C18-C36, possibly motor oil.
- 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-C12, possibly gasoline.

Cheyl Balmer 9/9/94  
Department Supervisor Date

Peggie Dawson 9/9/94  
Chemist Date

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

Lab Workorder : 9408317  
 Matrix : WATER

Client Project ID : 92CB040  
 Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		T.BLANK	MW-4	MW-1	MW-3	MW-2
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9408317-01	9408317-02	9408317-03	9408317-04	9408317-05
Benzene	0.50	ND	35	22	ND	ND
Toluene	0.50	ND	97	71	ND	ND
Ethylbenzene	0.50	ND	410	310	ND	ND
Total Xylenes	0.50	ND	1400	1000	ND	ND
TPH as Gasoline	50	ND	8400	6700	ND	ND
Surrogate Recovery		111%	100%	106%	112%	109%
Instrument ID		HP21	HP21	HP21	HP21	HP21
Date Sampled		08/24/94	08/26/94	08/26/94	08/26/94	08/26/94
Date Analyzed		08/30/94	08/30/94	08/30/94	08/30/94	08/30/94
RLMF		1	25	25	1	1
Filename Reference		FPG31701.D	FPG31702.D	FPG31703.D	FPG31704.D	FPG31705.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.

Peggie Dawson 9/8/94  
 Analyst Date

Deena Sher 9/8/94  
 Supervisor Date



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

Lab Workorder : 9408317  
 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
Benzene	0.50	ND				
Toluene	0.50	ND				
Ethylbenzene	0.50	ND				
Total Xylenes	0.50	ND				
TPH as Gasoline	50	ND				
Surrogate Recovery		111%				
Instrument ID		HP21				
Date Sampled		N/A				
Date Analyzed		08/30/94				
RLMF		1				
Filename Reference		BG3002E1.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.

Lucia Star 9/8/94  
 Analyst Date

Lucia Star 9/8/94  
 Supervisor Date

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

Project ID : 92CB040  
 Sample ID : MW-2  
 Matrix : WATER  
 Date Sampled : 08/26/94

Laboratory ID : 9408317-05  
 Analyst : *RD*  
 Supervisor : *IS*  
 Instrument ID : HP21  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Gasoline	500	ND	82%	86%	50-139	-5%	30
Surrogate Recovery		109%	97%	104%			
Date Analyzed		08/30/94	08/30/94	08/30/94			
Multiplier		1	1	1			
Filename Reference		FPG31705.D	FMG31705.D	FDG31705.D			

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

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

Instrument ID : HP21  
 Matrix : LIQUID

Analyst : RD  
 Supervisor : IS  
 Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	82%	56-141
Surrogate Recovery		102%	61-139
Date Analyzed		08/30/94	
Multiplier		1	
Filename Reference		MG3001E1.D	

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

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.: 9408317  
Matrix : WATER  
Date Sampled : 08/26/94  
Date Extracted: 09/01/94

Project Number : 92CB040  
Date Released : 09/08/94  
Instrument I.D.: HP9

Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9408317-02	MW-4	09/02/94	50	650	89%
9408317-03	MW-1	09/02/94	50	510	89%
9408317-04	MW-3	09/02/94	50	66	89%
9408317-05	MW-2	09/02/94	50	ND	90%
BS0111F9	METHOD BLANK	09/02/94	50	ND	88%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.  
The surrogate recovery limits for o-terphenyl are 47-114%.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

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

Peggie Dawson 9/8/94  
Analyst Date

Lucia Shor 9/8/94  
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT  
 EPA METHOD 3510 WITH GC/FID  
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE  
 Matrix : WATER  
 Date Sampled : N/A  
 Date Extracted: 09/01/94  
 Date Analyzed : 09/02/94

Anamatrix I.D. : MS0111F9  
 Analyst : ~~ND~~  
 Supervisor : ~~IS~~  
 Date Released : 09/08/94  
 Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	1000	80%	860	69%	-15%	38-96
SURROGATE			92%		85%		47-114

\* Quality control limits established by Anamatrix, Inc.

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

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

Workorder # : 9408317  
Date Received : 08/26/94  
Project ID : 92CB040  
Purchase Order: N/A  
Department : PREP  
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9408317- 2	MW-4	WATER	08/26/94	5520BF
9408317- 3	MW-1	WATER	08/26/94	5520BF
9408317- 4	MW-3	WATER	08/26/94	5520BF
9408317- 5	MW-2	WATER	08/26/94	5520BF

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

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

Workorder # : 9408317  
Date Received : 08/26/94  
Project ID : 92CB040  
Purchase Order: N/A  
Department : PREP  
Sub-Department: PREP

QA/QC SUMMARY :

- Insufficient water sample was received for a Matrix Spike and Matrix Spike Duplicate analysis for Method 5520BF. A Laboratory Control Sample and Laboratory Control Sample Duplicate were extracted and analyzed instead.

DeB. J. H. 9/9/94  
Department Supervisor Date

A. J. S. 9/9/94  
Chemist Date

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

PROJECT I.D. : 92CB040  
 MATRIX : WATER  
 DATE SAMPLED : 08/26/94  
 DATE EXTRACTED : 09/06/94  
 DATE ANALYZED : 09/07/94

ANAMETRIX I.D. : 9408317  
 ANALYST : RA  
 SUPERVISOR : B  
 DATE RELEASED : 09/09/94

WORKORDER #	SAMPLE I.D.	REPORTING LIMIT (mg/L)	AMOUNT FOUND (mg/L)
9408317-02	MW-4	5.0	ND
9408317-03	MW-1	5.0	ND
9408317-04	MW-3	5.0	ND
9408317-05	MW-2	5.0	ND
BS0611W4	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 : 09/06/94  
 Date Analyzed : 09/07/94

Anamatrix I.D. : M/NS0611W4  
 Analyst : *CA*  
 Supervisor : *BS*  
 Date Released : 09/09/94

COMPOUND	SPIKE AMT. (mg/L)	LCS (mg/L)	%REC LCS	LCSD (mg/L)	%REC LCSD	% RPD	REC LIMITS
MOTOR OIL	50	47	94	46	92	2	44-128

\* Quality control limits established by Anamatrix Laboratories.

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

**Woodward-Clyde Consultants**

500 12th Street, Suite 100, Oakland, CA 94607-4014  
(510) 893-3600

**Chain of Custody Record**

PROJECT NO. CBC Oakland 92CB040			ANALYSES					REMARKS (Sample preservation, handling procedures, etc.)
DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	EPA Method 8015/8016	EPA Method 8015	EPA Method 8015	EPA Method 8015	
8/26/94		Travel Blank	W	3				Samples stored on ice immediately after sampling  Question of Results to: JB Beth Folger  Standard T.A.T
8/26/94	1300	MW-4	W	3	2	2	7	
8/26/94	1430	MW-1	W	3	2	2	7	
8/26/94	1450	MW-3	W	3	2	2	7	
8/26/94	1505	MW-2	W	3	2	2	7	

2 TRIP BLANKS HAVE BUBBLES. ALL OTHER SAMPLES OK.

TOTAL NUMBER OF CONTAINERS 31

RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE/TIME 8/26/94 15:20	RECEIVED BY (Signature) <i>[Signature]</i>	RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE/TIME 8/26/94	RECEIVED BY (Signature) <i>[Signature]</i>
METHOD OF SHIPMENT Aerometric Casser		SHIPPED BY (Signature)	COURIER (Signature)	RECEIVED FOR LAB BY (Signature) <i>[Signature]</i>	DATE/TIME 8/26/94 15:15