

HAZMAT 91: OCT 19 AHII: 52

October 14, 1994

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

Subject: Continental Baking Company, 6841 Village Parkway, Dublin, CA 94568

Quarterly Groundwater Monitoring Report

Dear Ms. Chu:

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 25, 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 Dublin facility in March, 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 328.77 to 329.21 feet above mean sea level (MSL).
- Groundwater levels have declined slightly since the wells were installed in March, 1994.

Head differences between monitoring wells at the site a very small (indicative of a relatively flat water table). The general groundwater flow direction in July and August was towards the northwest, which was consistent with the previously observed direction. The shift towards the southwest in October, 1994 is probably a localized variation, possibly associated with the drainage ditch that borders the north end of the site.

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Ms. Eva Chu October 14, 1994 Page 2

### ANALYTICAL RESULTS

Sampling activities were performed in August, 1994 by WCC personnel. A copy of the 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-3 and labelled MW-4. Samples were submitted for analysis for Total Petroleum Hydrocarbons (TPH) and quantified as Diesel (TPHd, modified EPA Method 8015) 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:

- TPHd was detected at concentration of 120 and 280 μg/L in samples from wells MW-1 and 2 respectively. No TPHd was detected in well MW-3.
- BTEX was not detected in any of the samples.

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

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## Woodward-Clyde

Ms. Eva Chu October 14, 1994 Page 3

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

Sincerely, So Beth Folger

Jo Beth Folger

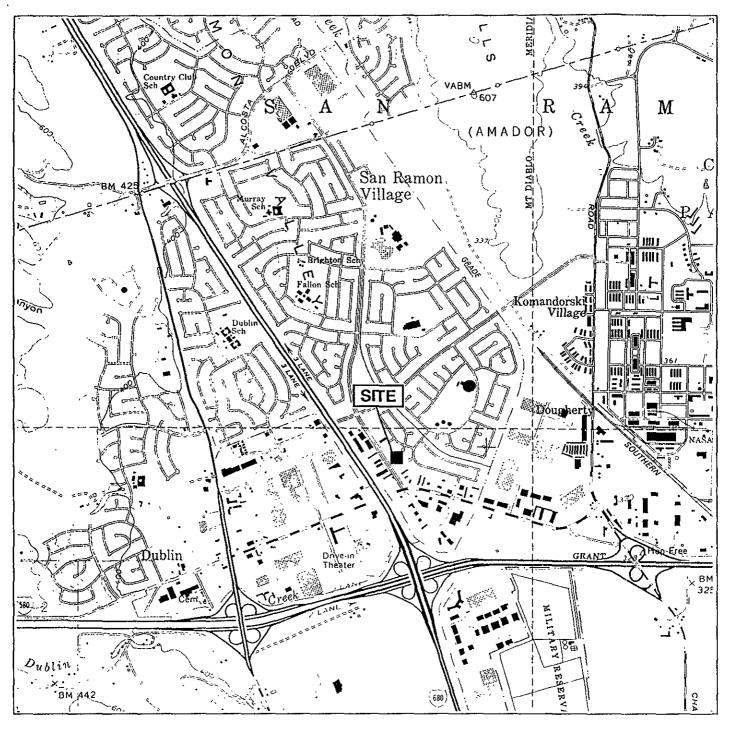
Attachments

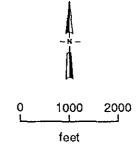
c: Fred Dannecker, CBC-SF Charles Gjersvik, CBC-SL Jim Hummert, WCC-SL

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION
CONTINENTAL BAKING COMPANY, DUBLIN, 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	3/7/94	340.8	9.97	330.83
	5/27/94	340.8	10.87	329.93
	6/29/94	340.8	11.58	329.22
	7/29/94	340.8	11.62	329.18
	8/25/94	340.8	11.63	329.17
	10/4/94	340.8	12.03	328.77
MW-2	3/7/94	340.39	9.71	330.68
	5/27/94	340.39	10.52	329.87
	6/29/94	340.39	11.19	329.2
	7/29/94	340.39	11.22	329.17
	8/25/94	340.39	11.32	329.07
	10/4/94	340.39	11.50	328.89
MW-3	3/7/94	340.47	9.53	330.94
	5/27/94	340.47	10.43	330.04
	6/29/94	340.47	11.2	329.27
	7/29/94	340.47	11.29	329.18
	8/25/94	340.47	11.26	329.21
	10/4/94	340.47	11.55	328.92

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Project No. 92CB037	Continental Baking Company 6841 Village Parkway Dublin, California	SITE LOCATION	Figure
Woodw	ard-Clyde Consultants		<u>'</u>

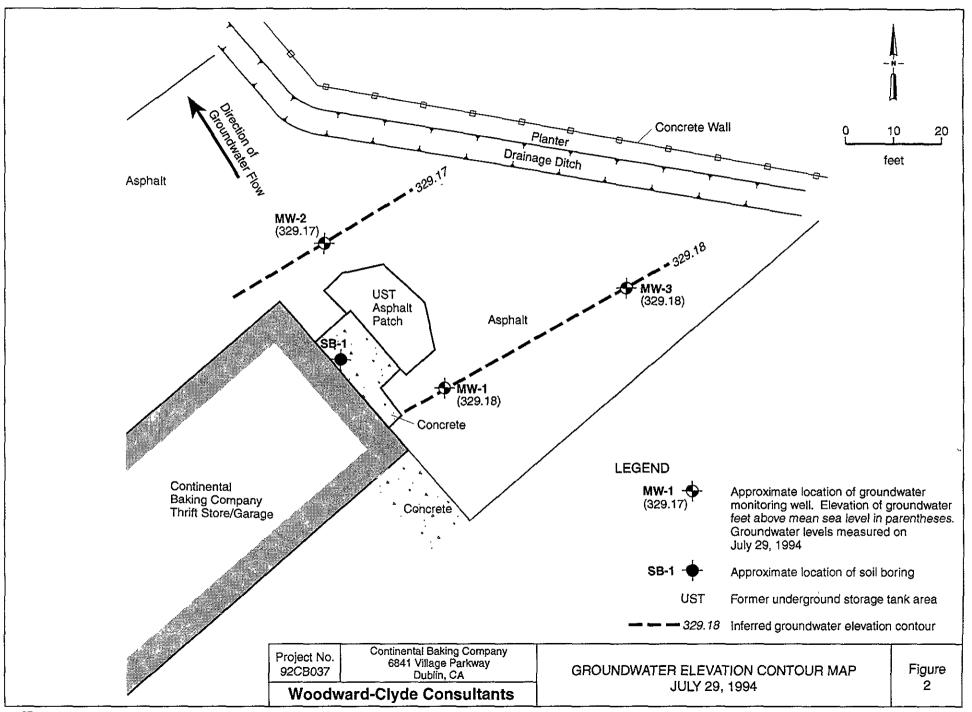


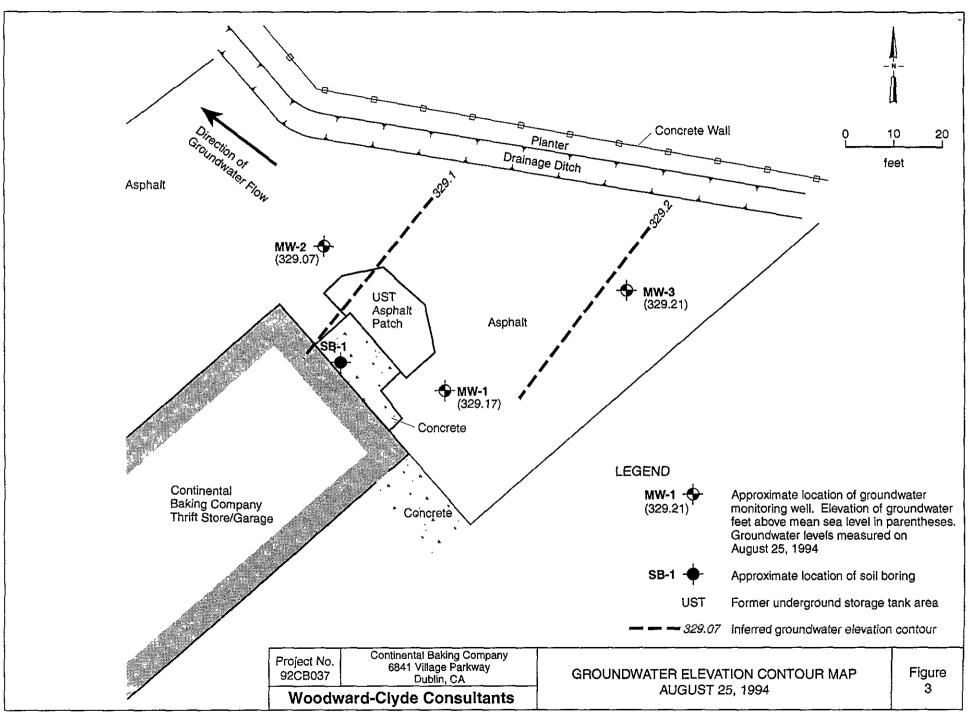
TABLE - 2

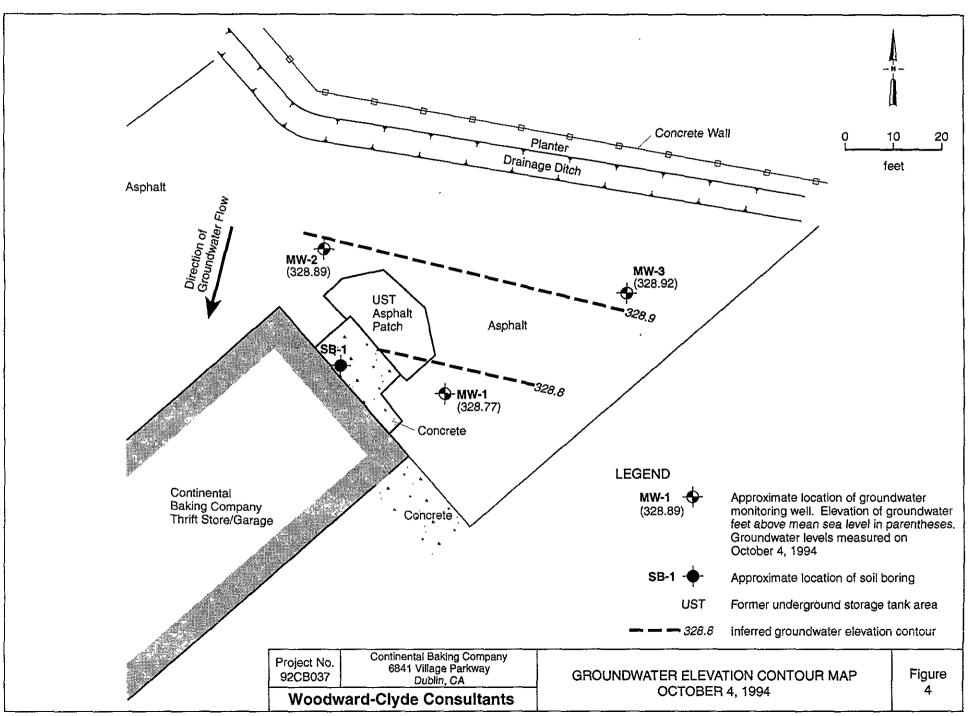
SUMMARY OF ANALYTICAL RESULTS

CONTINENTAL BAKING COMPANY, DUBLIN, CALIFORNIA

Parameters	rameters TPH diesel			ТРН ВТЕХ					
			benzene	toluene	ethyl- benzene	tot. vylenes			
EPA Method		8015		80	)20				
Units		(μg/L)		(μք	g/L)				
Well Number	Date								
MW-I	3/7/94	210/230	0.50/<0.50	0.50/<0.50	0.50/<0.50	0.50/<0.50			
	5/27/94	210	<0.50	< 0.50	< 0.50	< 0.50			
	8/25/94	120	<0.50	<0.50	<0.50	<0.50			
MW-2	3/7/94	240	<0.50	<0.50	<0.50	<0.50			
	5/27/94	240/210	0.50/<0.50	0.50/<0.50	0.50/<0.50	0.50/<0.5			
	8/25/94	280	<0.50	<0.50	<0.50	<0.50			
MW-3	3/7/94	<50	<0.50	<0.50	<0.50	<0.50			
	5/27/94	<50	0.56	<0.50	<0.50	1.56			
	8/25/94	<50/<50	<0.50/<0.50	<0.50/<0.50	<0.50/<0.50	<0.50/<0.50			

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

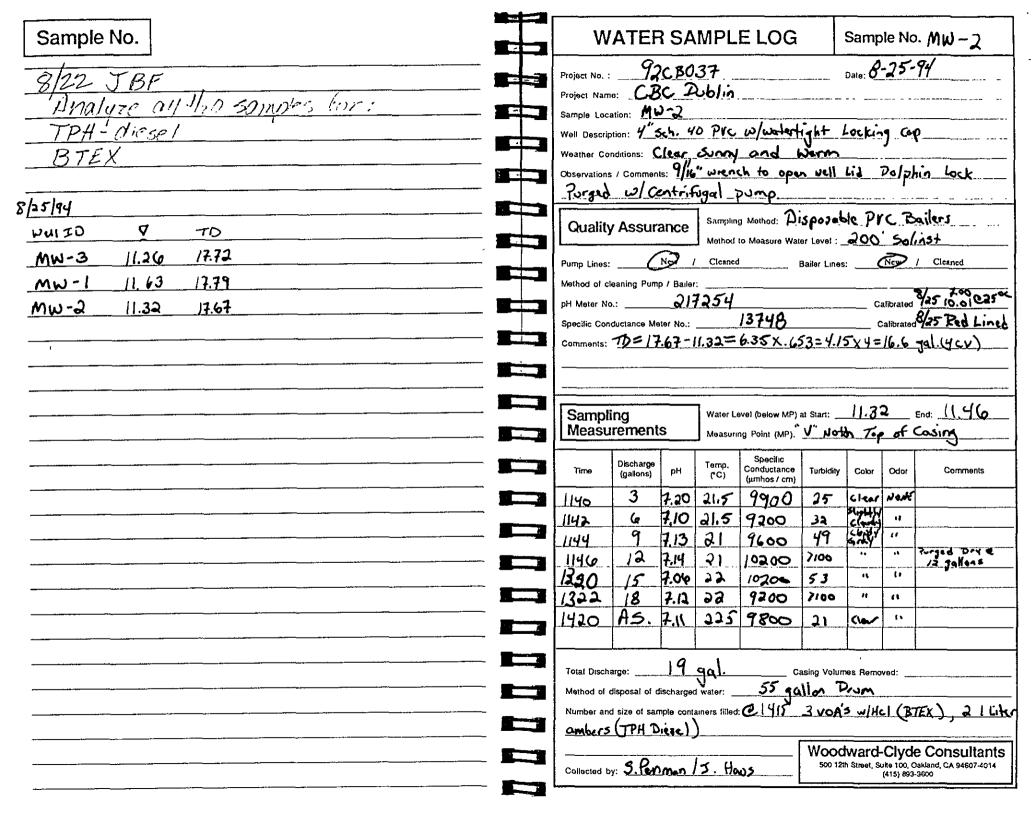




Sample No.	W	ATEF	R SA	MPL	E LOG		Samp	le No	. MW-1
	Project No. :	93 <i>C</i>	CBO:	37 Dublin			Date:	8-a:	5-94
	Sample Loca Well Descrip Weather Co	ation: MW otion: 4"5 nditions: C	1-1 ich 40 ilear i	Donny	ulmaterti and Hot and Dol				ess wall
	ـــــــــــــــــــــــــــــــــــــ	y Assur		Method	Method: De	er Level : _	`9 <i>0</i> 0'.	_5ol	inot
	Method of cl	leaning Pump	p / Bailer:	17254	1		C:	alibrated	8/25 7.00 e25°¢
	Specific Con	ductance Me	ter No.:		13748 - 6.16 x.6		c	alibrated	135 Red Lined
	Sampl	ing		1					End: /2.02
	Time	Discharge (gallons)	S pH	Measurii Temp. (°C)	Specific Conductance (µmhos/cm)	Turbidity	Color	<b>7ορ</b> ο	Comments '
	1149	3	7.16 7.20	22 21.5		26 72	slightly Cloud Clouds g(a)	عم د تر	
	1310	12	7.22	23	9100	46	Signally Classic	41	10.5 gallens
	1312	18	7.15 7.09	اد	8800 8300	83 96	Jan Jan	ત	
		<u> </u>					1		
	ł	arge:disposat of d	ischarged		55 Jall			,	K), Z-L(TPHU)
	Collected b	у	5H,	/sp		Wood 500 121	h Street, Su	Clyd ite 100, 0 (415) 893	e Consultants Dakland, CA 94607-4014 0-3600

.

Sample No.	W	ATER	SAI	MPLE	LOG		Sampl	e No.	MW-3
	Project Name	CBS	Di	37 ublin			Date: _8	?-25	.94
	Weather Con	ditions: C	ch, 41 lear : 9/16"	الماريخ الماريخ	wlooderly & Hot un and pump		•		access well
	Quality	Assura	nce	Sampling Method to	Mothod: Dr	r Level : _	200	_50[	inst
	Method of cla	eaning Pump	Bailer:	7254 1.			Ca	librated	75 6.01 C25th
	Comments:								
	Sampli Measu	ing rement	s	Water Le	wel (below MP) a	at Start:	11.20 16h 7	6p =	f cosing
	Time	Discharge (gallons)	pН	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbldity	1. 1	Odor	Comments #
	1301	6 9	7.42	21.5	/0200 /0200	60	100 P	2	furged torye.
	1259	12	7.10	22.5 215	10000	42	(Jest)	"	2 20 4 (9
	1303	B A.S.	7.18 7.24	21.6 Z3.0	9900 10000	59 27	clens	11	Jallons 19
	Total Disch	arge:		gal.		asing Volum			
		id size of sai	mple cont	anare filled	e 1330	3 V Q 12	6 <i>A</i> s (D 2:40		Z-L. TPH6d)
	Collected 1	by: <u>5.</u> 1	enm	an /s	Haus	Wood 500 12	dward	-Clyd urte 100, (415) 891	e Consultants Oakland, CA 94507-4014 3-3600



1961 Concourse Drive Suite E San Jose, CA 95151 Tel: 408-432-8192 Fax: 408-452-8198

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

Workorder # : 9408316 Date Received : 08/26/94 Project ID : 92CB037

Purchase Order: N/A

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9408316- 1 9408316- 2 9408316- 3 9408316- 4 9408316- 5	T.BLANK MW-4 MW-3 MW-1 MW-2

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

Doug Robbins

Laboratory Director

Date

This report consists of \_\_\_\_ 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 # : 9408316 Date Received: 08/26/94 Project ID: 92CB037
Purchase Order: N/A
Department: GC
Sub-Department: TPH

### SAMPLE INFORMATION:

(

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9408316- 1	T.BLANK	WATER	08/25/94	BTEX
9408316- 2	MW-4	WATER	08/25/94	BTEX
9408316- 3	MM-3	WATER	08/25/94	BTEX
9408316- 4	MW-1	WATER	08/25/94	BTEX
9408316- 5	MW-2	WATER	08/25/94	BTEX
9408316- 2	MW-4	WATER	08/25/94	TPHd
9408316- 3	MM-3	WATER	08/25/94	TPHd
9408316- 4	MW-1	WATER	08/25/94	TPHd
9408316- 5	MW-2	WATER	08/25/94	TPHd

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

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

Workorder # : 9408316
Date Received : 08/26/94
Project ID : 92CB037
Purchase Order: N/A
Department : GC
Sub-Department: TPH:

### QA/QC SUMMARY :

- The concentrations reported as diesel for samples MW-1 and MW-2 are primarily due to the presence of a heavier petroleum product, possibly aged diesel fuel.

Operation Operation Date

leggie Dawson 9/6/94 Chemist Davison 9/6/94

GC/TPH- PAGE 2

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

Lab Workorder : 9408316

Client Project ID: 92CB037

Matrix

: WATER

Units : ug/L

		Client ID				
	Method	T.BLANK	MW-4	MM-3	MW-1	MW-2
	Reporting	Lab ID				
Compound Name	Limit*	9408316-01	9408316-02	9408316-03	9408316-04	9408316-05
Benzene	0.50	ND	ND	ND	ND	ND
Toluene	0.50	ND	ND	ND	ND	ДИ
Ethylbenzene	0.50	ND	ND	ND	ND	ND
Total Xylenes	0.50	ND	ND	ND	ND	ND
TPH as Gasoline	50	_	-	_	-	<u>-</u>
Surrogate Recovery		104%	107%	105%	105%	110%
Instrument ID		HP12	HP12	HP12	HP12	HP12
Date Sampled		08/25/94	08/25/94	08/25/94	08/25/94	08/25/94
Date Analyzed		08/30/94	08/30/94	08/30/94	08/31/94	08/31/94
RLMF		1	1	1	1	1
Filename Reference		FPG31601.D	FPG31602.D	FPG31603.D	FPG31604.D	FPG31605.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.

Reggie Tausen 1/6/94

Analyst Date

Supervisor

9/4/44 Dat

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

Lab Workorder : 9408316

Client Project ID: 92CB037

Matrix

: WATER

Units : ug/L

		Client ID	Client ID	Client ID	Client ID	Client ID
	Method					
	Reporting	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
Compound Name	Limit*	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	_	-			
Surrogate Recovery		92%	97%			
Instrument ID		HP12	HP12			
Date Sampled		N/A	N/A			
Date Analyzed		08/30/94	08/30/94			
RLMF		1	1			
Filename Reference		BG3001E1.D	BG3002E1.D			

<sup>\*</sup> 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.

Reggie Dawson 4/6/94

Analyst Date

Supervisor

Da

## Matrix Spike Report

## Total Petroleum Hydrocarbons as BTEX ITS - Anametrix Laboratories - (408)432-8192

Project ID : 92CB037 Laboratory ID: 9408316-03

Sample ID : MW-3 Analyst : 💫

Matrix

: WATER

Supervisor : 03

Date Sampled : 08/25/94

Instrument ID : HP12

Units : ug/L

COMPOUND NAME	SPIKE	SAMPLE	MS	MSD	RECOVERY	RPD	RPD
	AMOUNT	RESULTS	RECOVERY	RECOVERY	LIMITS		LIMITS
Benzene	20	ND	100%	105%	45-139	-5%	30
Toluene	20	ND	105%	110%	51-138	-5%	30
Ethylbenzene	20	ND	110%	110%	48-146	0%	30
Total Xylenes	20	ND	100%	105%	50-139	-5%	30
Surrogate Recovery		105%	108%	105%			
Date Analyzed		08/30/94	08/30/94	08/30/94			
Multiplier		1	1	1			
Filename Reference		FPG31603.D	FMG31603.D	FDG31603.D			

<sup>\*</sup> Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP12

Analyst : NO

Matrix : LIQUID

Supervisor : 🚜

Units: ug/L

COMPOUND NAME	SPIKE	LCS	RECOVERY
	AMOUNT	RECOVERY	LIMITS
Benzene	20	105%	52-133
Toluene	20	110%	57-136
Ethylbenzene	20	110%	56-139
Total Xylenes	20	105%	56-141
Surrogate Recovery		104%	61-139
Date Analyzed		08/30/94	
Multiplier		1	
Filename Reference		MG3002E1.D	

<sup>\*</sup> Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Anametrix W.O.: 9408316 Project Number: 92CB037
Matrix: WATER Date Released: 09/02/94
Date Sampled: 08/25/94 Instrument I.D.: HP9

Date Extracted: 08/30/94

Anametrix Date Limit Found I.D. Client L.D. Analyzed (ug/L) (ug/L)	
9408316-02 MW-4 09/01/94 50 ND	90%
9408316-03 MW-3 09/01/94 50 ND	89%
9408316-04 MW-1 09/01/94 50 120	89%
9408316-05 MW-2 09/01/94 50 280	86%
BG3012F9 METHOD BLANK 09/01/94 50 ND	89%

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 9/6/94
Analyst Date

Charles 9/4/194
Supervisor Date

RESULTS - TPHd - PAGE 1

### 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: 08/30/94
Date Analyzed : 09/01/94 Anametrix I.D.: MG3012F9
Analyst: RD
Supervisor: S
Date Released: 09/02/94
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	1030	82%	1080	86%	5%	38-96
SURROGATE			97%		100%		47-114

<sup>\*</sup> Quality control limits established by Anametrix, Inc.

•	Woodward-Clyde Consultants  500 12th Street, Suite 100, Oakland, CA 94607-4014 (510) 893-3600								Chain of Custody Record							
	PROJECT NO.  AUGUM: 72 CB 037  SAMPLERS: (Signature)		atrix ated (A)ir	BIEX	7P4(c)			ANAL	YSES				Number of Containers	REMARKS (Sample preservation,		
	DATE	TIME	SAMPLE NUMBE	Sar (S)	EPA Method	EPA Method	EPA Method	EPA Method							- handling procedures, etc.)	
(1)	425/94 425/94 6/29/9	Ø800 12:40 (13:30	1-ip B/a-k MW-4 MW-3	12 12 12 W	3 3 3	222	ш 5. <b>4</b> .							5 56	•	
(b)	8425/74 825/74	14:45	MW-2	W	3	<u>Z</u>								5	Sample; stored on ice Immed. after sampling. Standard T.A.T.	
:								-							sampling.	
:															T.A.T.	
			``													
															Results to:	
															Results to: J. Beth Folger	
								***************************************								
	5 8	imple	mu-4-200 mu-3 3 L mu-2 150	PAS HAVE PAS HAVE PAS HAVE PAS HAVE	BURG	1BB 4BB 4BBL	SEC SEC	2					OTAL IR OF NERS	23		
	RELINQUISHED BY: DATE/TIME RECEIVED BY: (Signature)				1	R CE						<del></del>	TE TIME	RECEIVED BY (Signature)		
	METHOD A	SHIPPED BY (Signature)	SHIPPED BY · (Signature)				COURIER (Signature)					RECEIVED FOR LAB BY DATE/TIME (Signature)				

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10/10/21 11.45

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