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Ms. Jennifer Eberle Hazardous Materials Specialist Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, #250 Alameda, California 94502-6577

QUARTERLY GROUNDWATER MONITORING REPORT, MARCH 1996, 3924 MARKET STREET, OAKLAND, CALIFORNIA, FOR METZ BAKING COMPANY

Dear Ms. Eberle:

SECOR International Incorporated (SECOR) is pleased to submit this Quarterly Groundwater Monitoring Report presenting the results of groundwater monitoring conducted at 3924 Market Street in Oakland, California (the Site, see Figure 1, Site Location Map). SECOR is submitting this document on behalf of the Metz Baking Company (Metz). Metz formerly operated the Site as a San Francisco French Bread Company (SFFBC) facility. SECOR is providing this document to the Alameda County Department of Environmental Health (ACDEH) in accordance with recommended activities outlined in SECOR's Site investigation Summary Report dated June 28, 1995. This report presents monitoring well sounding, groundwater elevation, and groundwater quality data collected from three Site wells on March 7, 1996.

INTRODUCTION

The Site formerly operated a 500-gallon underground storage tank (UST) with associated product line and fuel dispenser for fueling delivery trucks (see Figure 2). The UST and product line were excavated and removed on March 29, 1991. Soil samples collected during the UST excavation revealed the presence of petroleum hydrocarbons. The UST excavation was overexcavated on June 21, 1991; additional soil samples collected for analysis also indicated the presence of petroleum hydrocarbons. On May 25 and 26, 1995, SECOR installed three groundwater monitoring wells (MW-1, MW-2 and MW-3) at the locations shown on Figure 2. The three wells were installed to assess groundwater flow direction and groundwater quality in the vicinity of the former UST.

GROUNDWATER MONITORING PROCEDURES

On March 7, 1996, SECOR sounded three groundwater monitoring wells (MW-1 through MW-3) using an electronic water-level indicator. The depth-to-groundwater and total well depth were measured for each well and recorded on the Hydrologic and Groundwater Sample Field Data Sheets included in Appendix A. The water-level indicator was rinsed with deionized water between the sounding of each well to prevent cross contamination.

Prior to sampling, wells were purged of approximately three wellbore volumes of water using a disposable PVC bailer. During purging, the evacuated groundwater was measured for pH, electrical conductivity, and temperature, and was visually inspected for color and turbidity. Parameter results were recorded on Groundwater Sample Field Data Sheets included in Appendix A. Upon removal of the appropriate purge volume and stabilization of the measured parameters, samples were collected from each well. Groundwater samples were decanted into prelabeled laboratory-supplied glassware, placed in an

Ms. Jennifer Eberle May 8, 1996 Page 2

ice-filled cooler, and transported to NET Pacific Analytical Laboratory, Inc. (NET) of Santa Rosa, California, a state-certified laboratory under chain-of-custody documentation.

Three samples were submitted for chemical analysis of total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) by EPA Method 8015, modified and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. Laboratory analytical reports and chain-of-custody records are included in Appendix B.

SUMMARY OF RESULTS

Monitoring well sounding data along with historic data are included in Table 1. Groundwater chemical results along with historic data are included in Table 2.

Monitoring Well Sounding

During this monitoring event, groundwater was measured at depths between 10.11 and 11.70 feet below the top of the PVC casing. These depths translate to groundwater elevations ranging from 44.54 to 46.35 feet above mean sea level (msl). During this monitoring event, groundwater elevations have increased by up to 1.26 feet when compared with the December 1995 data. A groundwater elevation contour map based on the March 7, 1996 groundwater elevation data is presented as Figure 3. Interpretation of Figure 3 indicates a groundwater flow direction to the northwest under an average hydraulic gradient of 0.065 feet per foot (ft/ft) which is consistent with historic groundwater flow data.

Groundwater Chemical Results

Groundwater samples exhibited pH values ranging from 7.76 to 10.26 pH units; temperatures ranging from 62.4 to 67.1 degrees Fahrenheit; specific conductivities ranging from 475 to 648 micromhos per centimeter (µmhos/cm); brown color; and moderate turbidity. Groundwater chemical results for March 1996 are shown on Table 2 and displayed graphically on Figure 4. Laboratory analytical reports and chain-of-custody records are included in Appendix B.

During this monitoring event, the groundwater sample collected from well MW-1 was reported to contain TPHg and TPHd at respective concentrations of 150 micrograms per liter $(\mu g/\ell)$ and 3,800 $\mu g/\ell$; this sample did not contain BTEX compounds above the laboratory reporting limit. The sample collected from well MW-2 was reported to contain TPHd at a concentration of 320 $\mu g/\ell$, no other analytes were reported in this sample. The sample collected from well MW-3 was reported to contain TPHg, TPHd, benzene, and xylenes at respective concentrations of 150 $\mu g/\ell$, 470 $\mu g/\ell$, 3.5 $\mu g/\ell$, and 0.6 $\mu g/\ell$.

Ms. Jennifer Eberle May 8, 1996 Page 3

SECOR plans to conduct the next quarterly groundwater monitoring event at the Site in June 1996. Please do not hesitate to contact us at (415) 882-1548 with any question or comments regarding this document.

Sincerely,

SECOR International Incorporated

Liping Zhang Staff Geologist

Bruce E. Scarbrough, R.G.

Principal Geologist

cc: Mr. Christopher Rants, Metz Baking Company

Attachments:

Table 1 - Monitoring Well Sounding Data

Table 2 - Groundwater Chemical Results

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Groundwater Elevation Contour Map

Figure 4 - Groundwater Chemical Results

Appendix A - Hydrologic and Groundwater Sample Field Data Sheets

Appendix B - Laboratory Analytical Reports and Chain-of-Custody Records

No. 6197

Donald W. Moore, R.G.

Project Manager

TABLE 1 MONITORING WELL SOUNDING DATA

3924 Market Street Oakland, California

WELL	TOTAL DEPTH ^(s)	SCREENED INTERVAL ^(a)	CASING DIAMETER®	TOP CASING ELEVATION(°)		TH TO WATER [®]	GROUNDWATER ELEVATION(6)
MW-1	21	6-21	2	56.46	6/1/95 9/6/95 12/7/95 3/7/96	9.70 10.70 11.36 10.11	46.76 45.76 45.10 46.35
MW-2	24	9-24	2	57.41	6/1/95 9/6/95 12/7/95 3/7/96	11.59 12.20 12.38 11.12	45.82 45.21 45.03 46.29
MW-3	24	9-24	2	56.24	6/1/95 9/6/95 12/7/95 3/7/96	11.53 11.92 12.05 11.70	44.71 44.32 44.19 44.54

NOTES:

- (a) Measured in feet below ground surface.
- (b) Measured in inches.
- (c) Measured with respect to mean sea level.
 (d) Measured in feet below top of PVC casing.

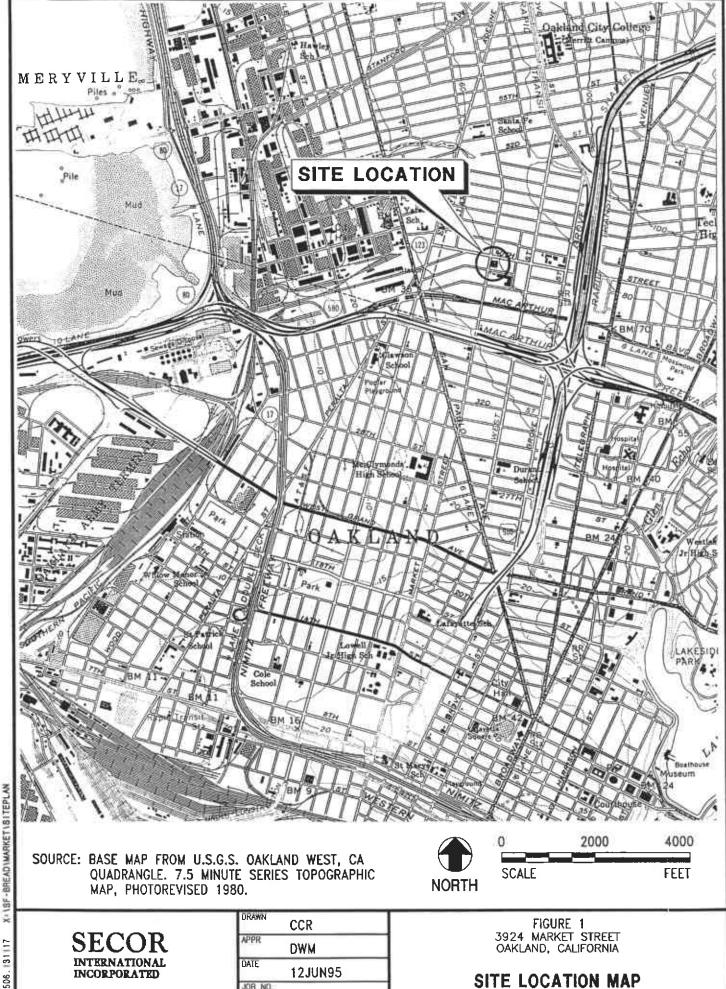
TABLE 2 GROUNDWATER CHEMICAL RESULTS

3924 Market Street Oakland, California

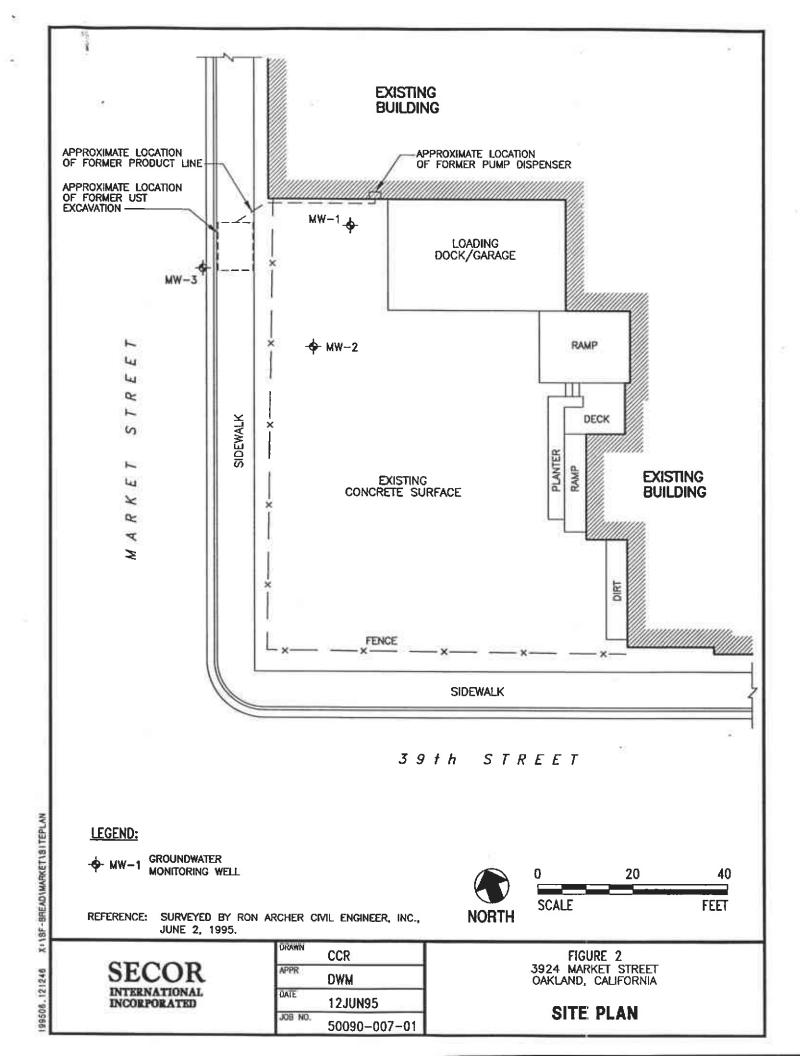
WELL	SAMPLE	TPHg ^(a)	TPHd ⁽ⁱ⁾	Benzene	Toluene	Ethylbenzene (µg/ℓ)	Xylenes
NUMBER	DATE	(μg/ℓ) ^(b)	(μg/ℓ)	(μg/l)	(μg/ℓ)		(μg/l)
MW-1	6/1/95	73	3,600	ND ⁽⁰⁾ < 0.5	1.0	ND < 0.5	3.0
	9/6/95	ND < 50	10,000	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	12/7/95	260	940	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	3/7/96	150	3,800 ✓	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
MW-2	6/1/95	ND < 50	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	9/6/95	ND < 50	500	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	12/7/95	ND < 50	90	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	3/7/96	ND < 50 /	320	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
MW-3	6/1/95	72	370	1.0	0.6	ND < 0.5	0.9
	9/6/95	ND < 50	2,800	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	12/7/95	ND < 50	ND < 50	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
	3/7/96	150	470	3.5	ND < 0.5	ND < 0.5	0.6

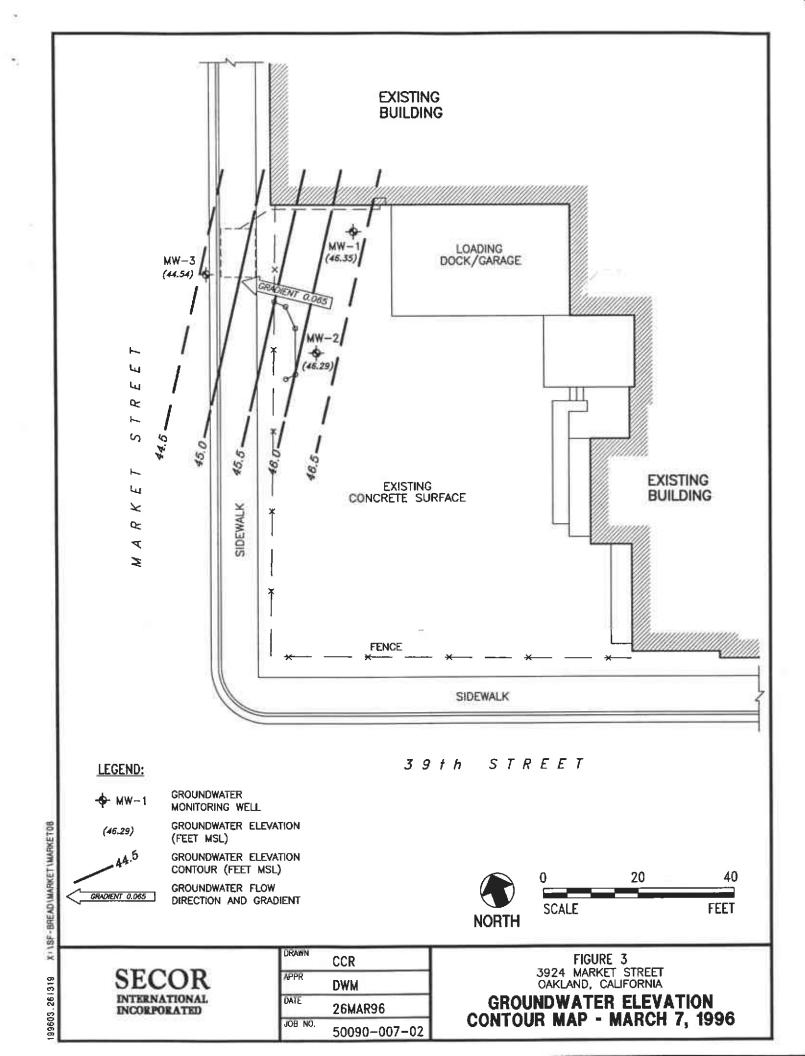
NOTES:

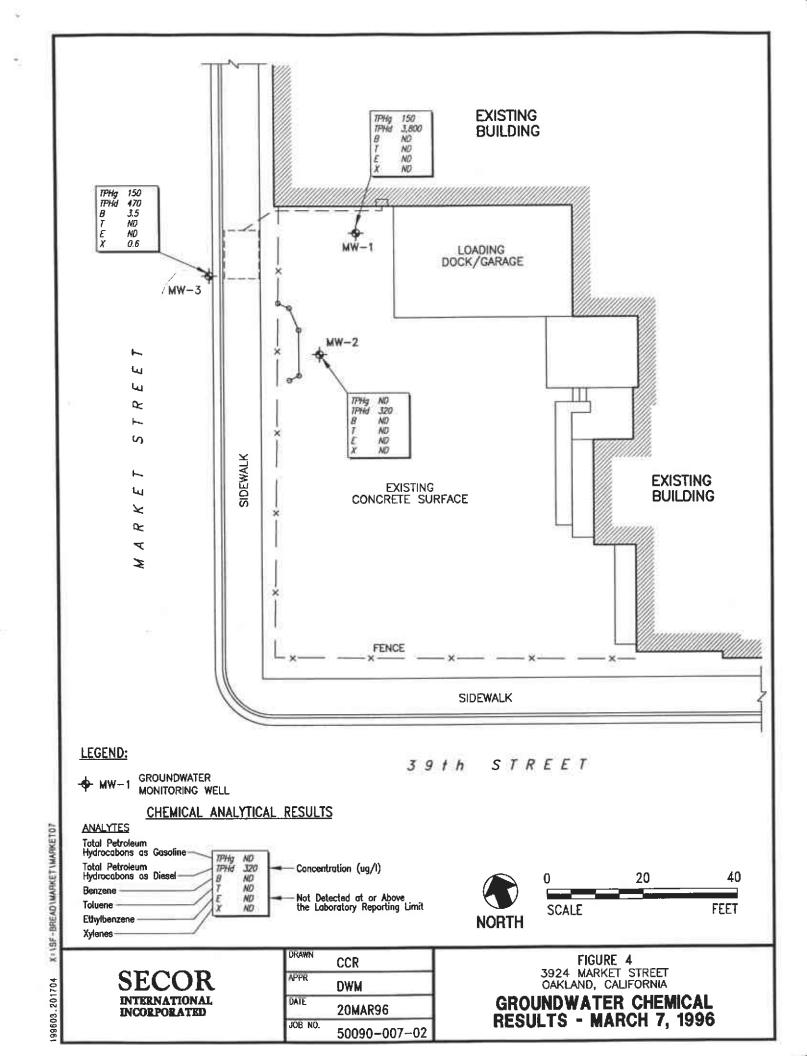
- (a) Total petroleum hydrocarbons as gasoline.
- (b) Micrograms per liter.
- (c) Total petroleum hydrocarbons as diesel.
- (d) ND: Not detected at specified reporting limit.



50090-007-01







APPENDIX A

HYDROLOGIC AND GROUNDWATER SAMPLE FIELD DATA SHEETS

SECOR International Incorporated Hydrologic data sheet

TELEVIOLOGIC DATA SHEET	

Date: 3/7/	196	Project: SFFB	e Mankat	Sc.	1	Project #:	2090-007-02
Sampler:	2	<u>.</u>					Page / of _ /
WELL or			MEAS	SUREMENT			
LOCATION	TIME	TOC	DTW	DTB	DIA	ELEV	COMMENTS
MW-1	0930		10.11		5,		9/16", Dolphin lock, water in the box 4/16", Dolphin lock.
WM-2	0920	·	11.12		۷"		4/16", Dolphin locks
mw-3	0925		11,70	····	٤,		4/16", Dolphin Lock, water in the box.
·						i	
,							
			· .	·			
						·	
			•				
	-						
Drum	Invent					_	-
	1 1/3	1 /	oundles	ter			
, .							
							!

TOC = Top of Well Casing Elevation DTW = Depth to Groundwater Below TOC

DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter

ELEV = Groundwater Elevation

SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 12090-007	-02	· . ·	WELL ID: SAMPLE ID:	Much
SAMPLED BY: UZ		1 .	LIENT NAME: S LOCATION: Oa	FFBC
TYPE: Groundwater ×	Surface Water	_ Treatment Effluent	Other	East, CA
CASING DIAMETER (inches): 2_X	<u> </u>	•	6	
CASING ELEVATION: (feet/MSL): DEPTH TO WATER (feet): DEPTH OF WELL (feet):		VOLUME IN CA CALCULATED I ACTUAL PURG	PURGE (gal)	1.9 5.17 6.6
DATE PURGED: 3/7/96 DATE SAMPLED: 3/7/96 EIELD OC SAMPLES COLLEGES		fr)	End (2400 Hr.)	1035
FIELD QC SAMPLES COLLECTED A	T THIS WELL (i.e., F	B-1, X-DUP-1):	•	
	FIELD MEAS	UREMENTS		· · · · · · · · · · · · · · · · · · ·
CMO H) (p1) (sain)	(mpo/cm@x°C)	TEMPERATURE		BIDITY
1023 2 8.50 1027 4 8.47 1035 6 8.44	495 524 522	65.1	Brown M	ed:
D.O. (ppm): C	OLOR, COBALT (0-100):	Cicar	
ODOR: Chemical odor			Yello Brow	- -
Contrifugal Pump Ballor	(Tefloa®) (PVC) (Stainless Stoet)	SAM 2º Bladder Pump DOL Sampler Submercible Pum Well Witzerd TM	Beller (PV	oe©) Cythepoceble) Inless Stoet)
		Other:		.
WELL INTEGRITY: Good REMARKS: Sheep		LOCK #:	lphin	<u> </u>
	1			
SIGNATURE:			_ Pagc/of	_(

SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: 17690-007-02 PURGED BY: UF SAMPLED BY: UT	WELL ID: MW-Z SAMPLE ID: MW-Z CLIENT NAME: SFEBC LOCATION: Oak land, CA
TYPE: Groundwater X Surface Water	Treatment Effluent Other
CASING DIAMETER (inches): 2 X 3	46Other
CASING BLEVATION: (feet/MSL): DEPTH TO WATER (feet): DEPTH OF WELL (feet): 24 0	VOLUME IN CASING (gal.) CALCULATED PURGE (gal.) ACTUAL PURGE VOL (gal.) Z 2 6.6 7.0
	End (2400 Hr.)
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FI	B-1, X-DUP-1):
FIELD MEASI	UREMENTS
TIME VOLUME PH E.C. (subodam@25°C)	TEMPERATURE COLOR TURBIDITY (*F) (*Mail) (*EE) visual
1100 2 110t 4 922 633 1109 6 8.66 638 1111 7 8.29 648	66.8 Brown Cloudy 66.6 Y 67.1 Y
D.O. (ppm): COLOR, COBALT (0-100)	Clear Cloudy
ODOR:	Yellow Brown
PURGING BOUIPMENT	SAMPLING EQUIPMENT
2º Bladder Pump Baller (Tefloa®) Centrifugal Pump Baller (PVC) Submersible Pump Baller (Stainless Steel) Well Wizard™ Dedicated	2" Bladder Pump Ballen(Telloud) DDL Sampler Baller (PVC/Gepocable) Submerrible Pump Baller (Stainless Stock) Well Witnerstow Dodicated
Other: Desposable	Others
WELL INTEGRITY: Good REMARKS:	LOCK #: Dolphin
SIGNATURE:	Page of

SEACOR WATER SAMPLE FIELD DATA SHEET

PROJECT NO: \(\frac{10090 - 007 - 02}{2} \) PURGED BY: \(\frac{2}{7} \)	WELL ID: MW-3 SAMPLE ID: MW-3 CLIENT NAME: SEFRE
SAMPLED BY:	LOCATION: lakland CA
TYPE: Groundwater X Surface Water	Treatment Effluent Other
CASING DIAMETER (inches): 2 3	
CASING ELEVATION: (feet/MSL): DEPTH TO WATER (feet): DEPTH OF WELL (feet): 24.0	VOLUME IN CASING (gal) CALCULATED PURGE (gal) ACTUAL PURGE VOL (gal) 6.3
DATE PURGED: 3/7/96 Start (2400 DATE SAMPLED: 3/7/96 Start (2400	Hr) 0940 End (2400 Hr.) 1000 Hr) End (2400 Hr.) 1010
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e.	FB-1, X-DUP-1):
FIELD MEA	ASUREMENTS
TIME VOLUME PH E.C. (2400 Hr) (pl) (unbod/cm@25°C)	TEMPERATURE COLOR TURBIDITY ('F) (Man) (Man) (Visual)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	62.6 Brown ned 63.0 V
D.O. (ppm): COLOR, COBALT (0-1)	00): Clear Cloudy
ODOR: Faint Chemical Odos	Yelkow Brown
PURGING EQUIPMENT	SAMPLING EQUIPMENT
2º Bladder Pump Bailer (Tellon®) Centrifugal Pump Bailer (PVC) Submersible Pump Bailer (Stainless Steel) Well Wizard™ Dedicated	2" Bladder Pump Beller (TellouФ) DDL Sampler
Other: Disposable	Other;
WELL INTEGRITY: Grand REMARKS: Sheen	LOCK #: Dolphin
SIGNATURE:	Pageof

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS



Santa Rosa Division 3636 North Laughlin Road Suite 110 Santa Rosa, CA 95403-8226

Tel: (707) 526-7200 Fax: (707) 541-2333

Don Moore SECOR 90 New Montgomery Suite 620 San Francisco, CA 94105 Date: 03/18/1996

NET Client Acct. No: 74000

NET Job No: 96.00887 Received: 03/08/1996

Client Reference Information

SFFBC Market St./50090-007-02

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

The recoveries for the Matrix Spike, Spike Duplicate and the Laboratory Control Sample for Diesel are low for this analytical event due to difficulties in extraction. There was no sample volume remaining for re-extracton and re-analysis. The Matrix Spike Duplicate and the Laboratory Control Sample are within the established Quality Control windows for Diesel analysis. Results are reported herein.

Submitted by:

Ginger Briniee

Project Coordinator

Enclosure(s)



Client Name: SECOR

Client Acct: 74000

NET Job No: 96.00887

Date: 03/18/1996

ELAP Cert: 1386

Page: 2

Ref: SFFBC Market Street, Oakland, CA/50090-007-02

SAMPLE DESCRIPTION: MW-1

Date Taken: 03/07/1996 Time Taken: 10:45

Time Taken: 10:45							_
NET Sample No: 261861							Run
		Reporting	ī		Date	Date	Batch
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)							
5030/M8015						03/14/1996	_ 3593
DILUTION FACTOR*	1 /					03/14/1999	3593
as Gasoline	0.15	0.05	mg/L	5030		03/14/1996	3593
8020 (GC, Liquid)						03/14/1996	3593
Веплепе	ND 🗸	0.5	ug/L	8020		03/14/1996	3593
Toluene	ND	0.5	ug/L	8020		03/14/1996	3593
Ethylbenzene	ND	0.5	ug/L	8020		03/14/1996	3593
Xylenes (Total)	ND -	0.5	ug/L	8020		03/14/1996	3593
SURROGATE RESULTS			- 21			03/14/1996	3593
-	107		% Rec.	5030		03/14/1996	3593
Bromofluorobenzene (SURR)	107		V 11001				
and the stands					03/13/1996		
M8015 (EXT., Liquid)	7					03/14/1996	1205
DILUTION FACTOR*	1	0.05	/1	3510		03/14/1996	1205
as Diesel	3.8	0.05	mg/L	2210		05, 21, 255	

Client Name: SECOR

Client Acct: 74000 NET Job No: 96.00887 Date: 03/18/1996

ELAP Cert: 1386 Page: 3

Ref: SFFBC Market Street, Oakland, CA/50090-007-02

SAMPLE DESCRIPTION: MW-2

Date Taken ____03/07/1996

Time Taken: 11:25

263062 nle No:

NET Sample No: 26186:	2								Run
-				Reporting	9		Date	Date	Batch
Parameter		Resu	lts Flags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)									
5030/M8015								03/14/1996	3593
DILUTION FACTOR*	_/	1						03/14/1996	3593
as Gasoline	1	ND		0.05	/mg/L	5030		03/14/1996	3593
8020 (GC, Liquid)					7			03/14/1996	3593
Benzene		ND		0.5	ug/L	8020		03/14/1996	3593
Toluene		ND	, ·	0.5	ug/L	8020		03/14/1996	3593
Ethylbenzene		ND		0.5	ug/L	8020		03/14/1996	3593
Xylenes (Total)		ND	(0.5	ug/L	8020		03/14/1996	3593
SURROGATE RESULTS					_3, _			03/14/1996	3593
Bromofluorobenzene (SURR)		100			% Rec.	5030		03/14/1996	3593
M8015 (EXT., Liquid)							03/13/1996		
DILUTION FACTOR*		1					,	03/14/1996	1205
as Diesel		0.32	2	0.05	mg/L	3510		03/14/1996	1205

Client Name: SECOR
Client Acct: 74000

NET Job No: 96.00887

Date: 03/18/1996

Run

ELAP Cert: 1386 Page: 4

Ref: SFFBC Market_Street, Oakland, CA/50090-007-02

SAMPLE DESCRIPTION MW-3

Date Taken: 03/07/1996

Time Taken: 10:10
NET Sample No: 261863

THE DESIPE NO. BOXOGO							
		Reporting			Date	Date	Batch
Parameter	Results Plags	Limit	Units	Method	Extracted	Analyzed	No.
TPH (Gas/BTXE, Liquid)							
5030/M8015						03/14/1996	3593
DILUTION FACTOR*	1					03/14/1996	3593
as Gasoline	0.15	0.05	mg/L	5030		03/14/1996	3593
8020 (GC, Liquid)						03/14/1996	3593
Benzene	3.5	0.5	ug/L	8020		03/14/1996	3593
Toluene	ND /	0.5	ug/L	8020		03/14/1996	3593
Ethylbenzene	NIT'S	0.5	ug/L	8020		03/14/1996	3593
Xvlenes (Total)	0.6	0.5	ug/L	8020		03/14/1996	3593
SURROGATE RESULTS			J			03/14/1996	3593
Bromofluorobenzene (SURR)	105		% Rec.	5030		03/14/1996	3593
M8015 (EXT., Liquid)					03/13/1996		
DILUTION FACTOR*	1					03/14/1996	1205
as Diesel	0,47	0.05	mg/L	3510		03/14/1996	1205

Client Name: SECOR
Client Acct: 74000
NET Job No: 96.00887

Date: 03/18/1996

ELAP Cert: 1386

Ref: SFFBC Market Street, Oakland, CA/50090-007-02

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

		CCV	CCV					
	CCA	Standard	Standard					Run
	Standard	Amount	Amount			Date	Anal/st	Batch
Parameter	% Recovery	Found	Expected	Flags	Units	Analyzed	Initials	Number_
TPH (Gas/BTXE, Liquid)								
as Gasoline	102.0	0.51	0.50		mg/L	03/14/1996	aal	3593
Benzene	90.4	4.52	5.00		ug/L	03/14/1996	aal	3593
Toluene	85.4	4.27	5.00	,	ug/L	03/14/1996	aal	3593
Ethylbenzene	88.4	4.42	5.00		ug/L	03/14/1996	aal	3593
Xylenes (Total)	90.4	13.56	15.0		ug/L	03/14/1996	aal	3593
Bromofluorobenzene (SURR)	90.0	90	100		% Rec.	03/14/1996	aal	3593
M8015 (EXT., Liquid)								
as Diesel	110.6	1106	1000		mg/L	03/14/1996	dla	1205
M8015 (EXT., Liquid)								
as Diesel	112.7	1127	1000		mg/L	03/14/1996	dla	1205

Client Name: SECOR

Client Acct: 74000 NET Job No: 96.00887 Date: 03/18/1996

ELAP Cert: 1386

Page: 6

Ref: SFFBC Market Street, Oakland, CA/50090-007-02

METHOD BLANK REPORT

	Method						
	Blank						Run
,	Amount	Reporting			Date	Analyst	Batch
Parameter	Found	Limit	Flags	Units	Analyzed	<u>Initials</u>	Number
TPH (Gas/BTXE, Liquid)		/					
as Gasoline	ND	0 05		mg/L	03/14/1996	aal	3593
Benzene	ND	0.5		ug/L	03/14/1996	aal	3593
Toluene	ND	0.5		ug/L	03/14/1996	aal	3593
Ethylbenzene	N D	0.5		ug/L	03/14/1996	aal	3593
Xylenes (Total)	ND	0.5		ug/L	03/14/1996	aal	3593
Bromofluorobenzene (SURR)	95	***		% Rec.	03/14/1996	aal	3593
M8015 (EXT., Liquid) as Diesel	ND	0.05		mg/L	03/14/1996	dla	1205

Client Name: SECOR Client Acct: 74000 NET Job No: 96.00887 Date: 03/18/1996

ELAP Cert: 1386 Page: 7

Ref: SFFBC Market Street, Oakland, CA/50090-007-02

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

	Matrix Spike	Dup		Spike	Sample	_	Dup.	Flags	Units	Date Analyzed	Run Batch	Sample Spiked
Parameter	% Rec.	t Rec.	RPD	Amount	Conc.	Conc.	COMO.	Frage	Ontes	interface		
TPH (Gas/BTXE, Liquid)												261971
as Gasoline	102.0	100.0	2.0	0.50	ND	0.51	0.50		mg/L	03/14/1996	3593	261971
	100.9	101.8	0.9	6.83	ND	6.89	6.95		ug/L	03/14/1996	3593	261971
Benzene	100.5	101.6		-		*			/ -	03/14/1996	3593	261971
Toluene	101.0	100.8	0.2	25.69	MD	25.95	25.90		ug/L	03/14/1336	3333	
Bromofluorobenzene (SURR)	106.0	108.0	1.9	100	92	106	10B		% Rec.	03/14/1996	3593	261971
												261653
M8015 (EXT., Liquid) as Diesel	45.3	84.2	60.1	1.90	0.80	1.66	2.4	DH	mg/L	03/14/1996	1205	261653

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: SECOR Client Acct: 74000

NET Job No: 96.00887

Date: 03/18/1996

ELAP Cert: 1386

Ref: SFFBC Market Street, Oakland, CA/50090-007-02

LABORATORY CONTROL SAMPLE REPORT

				DUP						
		DUP	LCS	LCS	LCS					
	LCS	LCS	Amount	Amount	Amount			Date	Analyst	Run
Parameter	% Rec.	% Rec. RPD	Found	Found	Exp.	Flags	Units	Anal zed	Initials	Batch
M8015 (EXT., Liquid)							_			
as Diesel	50.0		0.50		1.00		mg/L	03/14/1996	dla	1205

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

KEY TO RESULT FLAGS

: RPD between sample duplicates exceeds 30%. *M : RPD between sample duplicates or MS/MSD exceeds 20%. : Correlation coefficient for the Method of Standard Additions is less than 0.995. : Sample result is less than reported value. : Value is between Method Detection Limit and Reporting Limit. : Analyte found in blank and sample. : The result confirmed by secondary column or GC/MS analysis. : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level. CNA COMP : Sample composited by equal volume prior to analysis. : The result has an atypical pattern for Diesel analysis. : The result for Diesel is an unknown hydrocarbon which consists of a single peak. DH : The result appears to be a heavier hydrocarbon than Diesel. DL: The result appears to be a lighter hydrocarbon than Diesel. DR : Elevated Reporting Limit due to Matrix. DS : Surrogate diluted out of range. : The result for Diesel is an unknown hydrocarbon which consists of several peaks. DX : Compound quantitated at a 2X dilution factor. : Compound quantitated at a 5X dilution factor. FC : Compound quantitated at a 10X dilution factor. FD . Compound quantitated at a 20% dilution factor. FE: Compound quantitated at a 50% dilution factor. FF: Compound quantitated at a 100% dilution factor. : Compound quantitated at a 200X dilution factor. FG FH : Compound quantitated at a 500X dilution factor. FI : Compound quantitated at a 1000X dilution factor. : Compound quantitated at a greater than 1000x dilution factor. FJ FK: Compound quantitated at a 25% dilution factor. FL: Compound quantitated at a 250% dilution factor. G-: The result has an atypical pattern for Gasoline. : The result for Gasoline is an unknown hydrocarbon which consists of a single peak. G1 : The result appears to be a heavier hydrocarbon than Gasoline. GH : The result appears to be a lighter hydrocarbon than Gasoline. GL : The result for Gasoline is an unknown hydrocarbon which consists of several peaks. GΧ : Peaks detected within the quantitation range do not match standard used. НΧ J : Value is estimated. ΜI : Matrix Interference Suspected. : Value determined by Method of Standard Additions. MSA MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995. : Sample spikes outside of QC limits; matrix interference suspected. NI1 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant. : Matrix Spike values exceed established QC limits, post digestion spike is in NI3 control. : pH of sample > 2; sample analyzed past 7 days. P7 : Refer to subcontract laboratory report for QC data. RSC : Matrix interference confirmed by repeat analysis. S2

: Thiocyanate not analyzed separately; total value is below the Reporting Limit for

Free Cyanide.

UMDL : Undetected at the Method Detection Limit.

Chain-of-Custody Number:

SEACOR Chain-of-Custody Record																					
Field Office: San Francisco											Additional documents are attached, and are a part of this Record.										
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San Francisco (A 94/05								Location: Onkland, CA													
																					
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