

City of Oakland



Engineers
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Scientists

01-0923 RIT

Re 887 (CL)

June 14, 1994

SFO35889.AA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
JUN 15 1994

Mr. Barney Chan
Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Dear Mr. Chan:

Subject: Quarterly monitoring data for Longview Fibre's removed gasoline and diesel underground storage tanks (UST) at 8511 Blaine Avenue, Oakland, California

This report presents the quarterly groundwater monitoring data for monitoring well MW-1 located adjacent to the removed gasoline and diesel USTs at 8511 Blaine Avenue in Oakland, California. As part of the quarterly groundwater monitoring program, MW-1 was sampled on March 4, 1994. Table 1 summarizes the monitoring data through March 4, 1994. The laboratory data sheets are also attached.

Shallow groundwater exists beneath the UST excavation at a depth of approximately 7 to 9 feet below grade. The groundwater level was measured on March 4, 1993 and found to be 7.20 feet below grade. This shallow groundwater generally flows westward toward the San Francisco Bay.

The analytical results summarized in Table 1 indicate little change in groundwater quality has occurred beneath the UST excavation since the previous sampling date (November 30, 1993). All compounds analyzed continued to be below the detection limits.

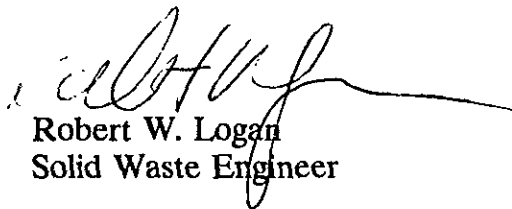
With the exception of the apparent anomolous result in TPH-diesel during the second quarter of 1993, five consecutive monitoring events have shown results below the groundwater target levels. On behalf of the Longview Fibre Company it is requested that monitoring at this site cease as no significant changes have occurred, nor been detected, in the groundwater since January 13, 1989.

Mr. Barney Chan
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If you have any questions or comments, please call me at (510) 251-2888, extension 2221.

Sincerely,

CH2M HILL



Robert W. Logan
Solid Waste Engineer

Enclosures

cc: Dave Mendenhall/Longview Fibre
Worth Cornelius/Longview Fibre
Mr. Rich Hiatt/Regional Water Quality Control Board
Nancy Hendrickson/CH2M HILL
Brad Herminson/CH2M HILL
file

Table 1
 Quarterly Monitoring Results for Monitoring Well MW-1
 Longview Fibre Company
 Oakland, California

Sample Date	TPH-Diesel	Benzene	Ethylbenzene	Toluene	Xylenes	Chlorinated Hydrocarbons ¹
May 9, 1988	NA	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	NA
January 13, 1989	<50 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	NA
May 12, 1989	<50 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l
November 21, 1989	<50 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l
May 25, 1993	98 ug/l ²	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	NA
August 26, 1993	<50 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	NA
November 30, 1993	<50 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	NA
March 4, 1994	<50 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	<1 ug/l	NA

TPH - Total petroleum hydrocarbons.

NA - Not analyzed.

ug/l - micrograms per liter.

¹ Chlorobenzene

1,4-dichlorobenzene

1,3-dichlorobenzene

1,2-dichlorobenzene

² The pattern of peaks for this sample did not match those expected from diesel fuel.

Note:

A "<" sign indicates that the compound was analyzed for but not detected above the detection limit.

CLIENT SAMPLE CROSS-REFERENCE

QAL Reference No. RD-37678

Client Sample ID	QAL Lab Sample ID
MW-1	RD-37678001
TB	RD-37678002

METHOD: 8020/8015(MOD)
TBME, BTEX & TFH Gas

Client: CH2M Hill/SFO
Project: Longview Fibre
Client Sample ID: TB
Sample Matrix: Water
Dilution Factor: 1

Reference No: 37678002-TBK
Date Sampled: 03/04/94
Date Received: 03/08/94
Date Extracted: N/A
Date Analyzed: 03/14/94

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>	<u>Units</u>
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
TFH Gas	50	U	ug/L
Surrogate (SS)		108	% rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: Brian Hill

FORM I

kdh.012

Quality Analytical
Laboratories Inc.

5090 Caterpillar Road,
Redding, CA 96003-7412

916 244-5227
Fax No. 916 244-4109

000004

METHOD: 8020/8015(MOD)
TBME, BTEX & TFH Gas

Client: CH2M Hill/SFO
Project: Longview Fibre
Client Sample ID: MW-1
Sample Matrix: Water
Dilution Factor: 1

Reference No: 37678001
Date Sampled: 03/04/94
Date Received: 03/08/94
Date Extracted: N/A
Date Analyzed: 03/14/94

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>	<u>Units</u>
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
TFH Gas	50	U	ug/L
Surrogate (SS)		120	% rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By: 

FORM I

kdh.012

Quality Analytical
Laboratories Inc.

5090 Caterpillar Road,
Redding, CA 96003-1412

916 244-5227
Fax No. 916 244-4109

000003

METHOD: 8020/8015(MOD)
TBME, BTEX & TFH Gas

Client Sample ID: WBLK1_03-14
Sample Matrix: Water
Dilution Factor: 1

Reference No: WBLK1_03-14
Date Extracted: N/A
Date Analyzed: 03/14/94

<u>Compound</u>	<u>Reporting Limit</u>	<u>Method Blank Result</u>	<u>Units</u>
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
TFH Gas	50	U	ug/L
Surrogate (SS)		107	% rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Fluorobenzene used as surrogate standard.

Comments:

Approved By:



FORM I

kdh.012

Quality Analytical
Laboratories Inc.

5090 Caterpillar Road,
Redding, CA 96003-1412

916 244-5227
Fax No. 916 244-4109

000005

METHOD: TFH DIESELS

Client: CH2M HILL/SFO

Reference No : 37678001

Client Sample ID: MW-1
Sample Matrix : WATER
Dilution Factor : 1
% Moisture: N/A


Date Sampled : 03/04/94
Date Received : 03/08/94
Date Extracted: 03/08/94
Date Analyzed : 03/11/94

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>	<u>Units</u>
TFH Diesel	0.05	U	mg/L
Surrogate (SS)		107	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Docosane used as surrogate standard.

Comments:

Approved By: 

FORM I

mws.1994A

METHOD: TFH DIESELS

Client: CH2M HILL/SFO

Reference No : DBLKW1_03-08

Client Sample ID: DBLKW1_03-08

Date Sampled : N/A

Sample Matrix : WATER

Date Received : N/A

Dilution Factor : 1

Date Extracted: 03/08/94

% Moisture: N/A


Date Analyzed : 03/08/94

<u>Compound</u>	<u>Reporting Limit</u>	<u>Blank Result</u>	<u>Units</u>
TFH Diesel	0.05	0.06	mg/L
Surrogate (SS)		115	% Rec.

U = Compound analyzed for but not detected above reporting limit.

SS = Surrogate Standard reported as percent recovery.
Docosane used as surrogate standard.

Comments:

Approved By: 

FORM I

mws.1994A

QAL

QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project # BAE35882.AA.ZZ		Purchase Order #		LAB TEST CODES										SHADED AREA-- FOR LAB USE ONLY																		
Project Name LONGVIEW FIBRE				# OF CONTAINERS	TPH DIESEL BTEX										Lab 1 # RD-37678		Lab 2 #															
Company Name CH2M HILL / SFO															Quote #		Kit Request #															
Project Manager & Phone # Mr. <input checked="" type="checkbox"/> BOB LOGAN		Report Copy to:													ANALYSES REQUESTED										Project #							
Requested Completion Date: SFD TAT		Sampling Requirements SDWA <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>													Sample Disposal: Dispose <input type="checkbox"/> Return <input type="checkbox"/>		No. of Samples 2		Page 2		of		COC Rev		Login		LIMS Ver		Ack Gen			
Sampling		Type													Matrix		CLIENT SAMPLE ID (9 CHARACTERS)										REMARKS		LAB 1 ID		LAB 2 ID	
Date	Time	COMP	GARB												WATER	SOIL																
3/4/94	0930		X												X	MW	-	1														
3/4/94	0930		X												X	MW	-	1														
																TB																
Sampled By & Title Bob Logan		Date/Time 3/4/94 0930													Relinquished By Bob Logan		Date/Time 3/7/94 1100		HAZWRAP/NESSA: Y N													
Received By		Date/Time		Relinquished By		Date/Time		QC Level <u>1</u> 2 3 Other: _____																								
Received By		Date/Time		Relinquished By		Date/Time		COC Rec <u>Y</u> ICE <u>Y</u>																								
Received By		Date/Time		Relinquished By		Date/Time		Ana Req <u>Y</u> TEMP <u>0°C</u>																								
Received By Bob Kelly		Date/Time 3/8/94 0900		Shipped Via UPS BUS <u>Fed-Ex</u> Hand Other _____		Shipping # 896 1708 585		Cust Seal <u>Y</u> Ph <u>22</u>																								
Work Authorized By		Remarks REPORTING LIMIT FOR TPH DIESEL TO BE "0.050 mg/L"																														

UNUUN

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: Original - LAB, Yellow - LAB, Pink - Client