

May 27, 1994 1708-004-00

Mr. Larry Hanna, Project Manager UNITED STATES POSTAL SERVICE Major Facilities Office 1407 Union Avenue Memphis, Tennessee 38166-0340

RE: QUARTERLY GROUNDWATER MONITORING PROGRESS REPORT THIRD QUARTER
USPS CONTRACT NO. 059984-89-J-0053; W.O. NO. 23.01
OAKLAND, CA - P&DC/VMF

Dear Mr. Hanna:

Geo/Resource Consultants, Inc.(GRC) is pleased to submit to the United States Postal Service (USPS) this report which presents the Third Quarter fluid-level monitoring and groundwater sampling for the above-referenced USPS facility. In accordance with the Alameda County Department of Environmental Health (ACDEH), monthly fluid levels were measured and groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-5. Groundwater samples were sent to a state-certified laboratory for All field work was completed in accordance with the ACDEH-accepted "Site Characterization Workplan," prepared by GRC, Purged groundwater recovered during dated August 26, 1993. sampling was drummed pending proper disposal prior to the next quarter's sampling. The results are attached.

Analytical results from all wells except for MW-4 remained at or near reported laboratory detection limits. MW-4 results indicated diesel at 86 parts per billion.

Groundwater continued to flow in a general southerly direction across the site.

#### **ATTACHMENTS:**

0	Figure 1:	Vicinity Map
0	Figure 2:	Groundwater Elevation Contour Map,
		January 26, 1994
0	Figure 3:	Groundwater Elevation Contour Map,
		February 15, 1994
0	Figure 4:	Groundwater Elevation Contour Map,
	_	March 31, 1994
0	Figure 5:	Dissolved-Phase Hydrocarbon Concentrations
0	Table 1:	Groundwater Sampling and Analyses Summary
•		
0	Appendix 1:	Laboratory Reports, Chain of Custody Records

GRC noted that the East Bay Municipal Utilities District (EBMUD) is currently extracting groundwater in a California Department of Transportation (Cal-Trans) right-of-way located approximately 150 feet southwest and hydraulically upgradient of MW-4. The dewatering project, which is part of EBMUD's South Interceptor Project for the Cypress Freeway Reconstruction, is expected to lower the water table approximately 20 feet by the end of May This will facilitate the excavation and relocation of an EBMUD sewer line which is the deepest subsurface utility in the area.

According to EBMUD (personal conversation, Mr. Al Weitz, April 21, 1994, (510) 287-1624), other utilities will also dewater the area to accommodate various construction phases following EBMUD's project. However, due to the more shallow installation requirements, the other utilities are expected to only lower the water table by approximately 10 feet. EBMUD reported that groundwater samples are periodically collected from the system and tested, and that no contaminants of concern have been detected.

The Third Quarter decrease in groundwater elevations and in the diesel concentration at MW-4 may be partially attributable to the adjacent EBMUD dewatering project. Fourth Quarter monthly groundwater elevation measurements and quarterly groundwater sample collection may also be affected by the dewatering project.

Please feel free to contact us at (415) 775-3177, if you have any questions regarding this project.

Sincerely,

GEO/RESOURCE CONSULTANTS, INC.

Gary A. Floyd

Senior Environmental Scientist

Glenn S. Goodman

Program Manager, Remediation Services

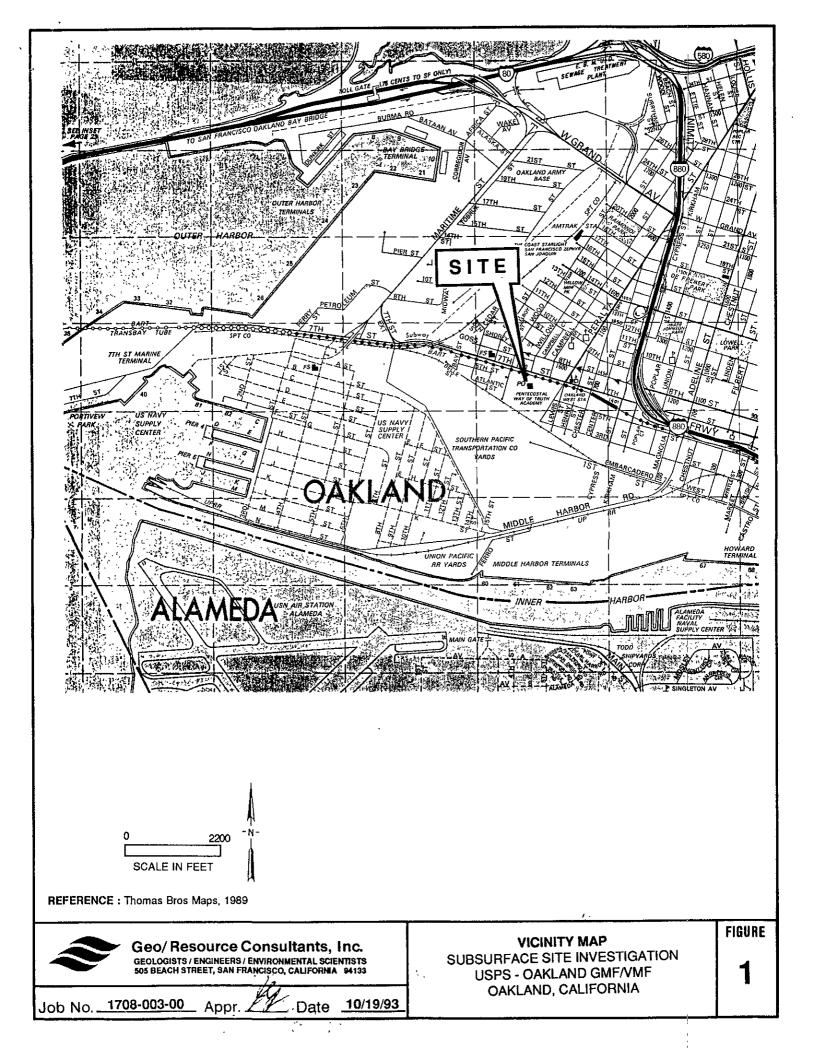
Vice President

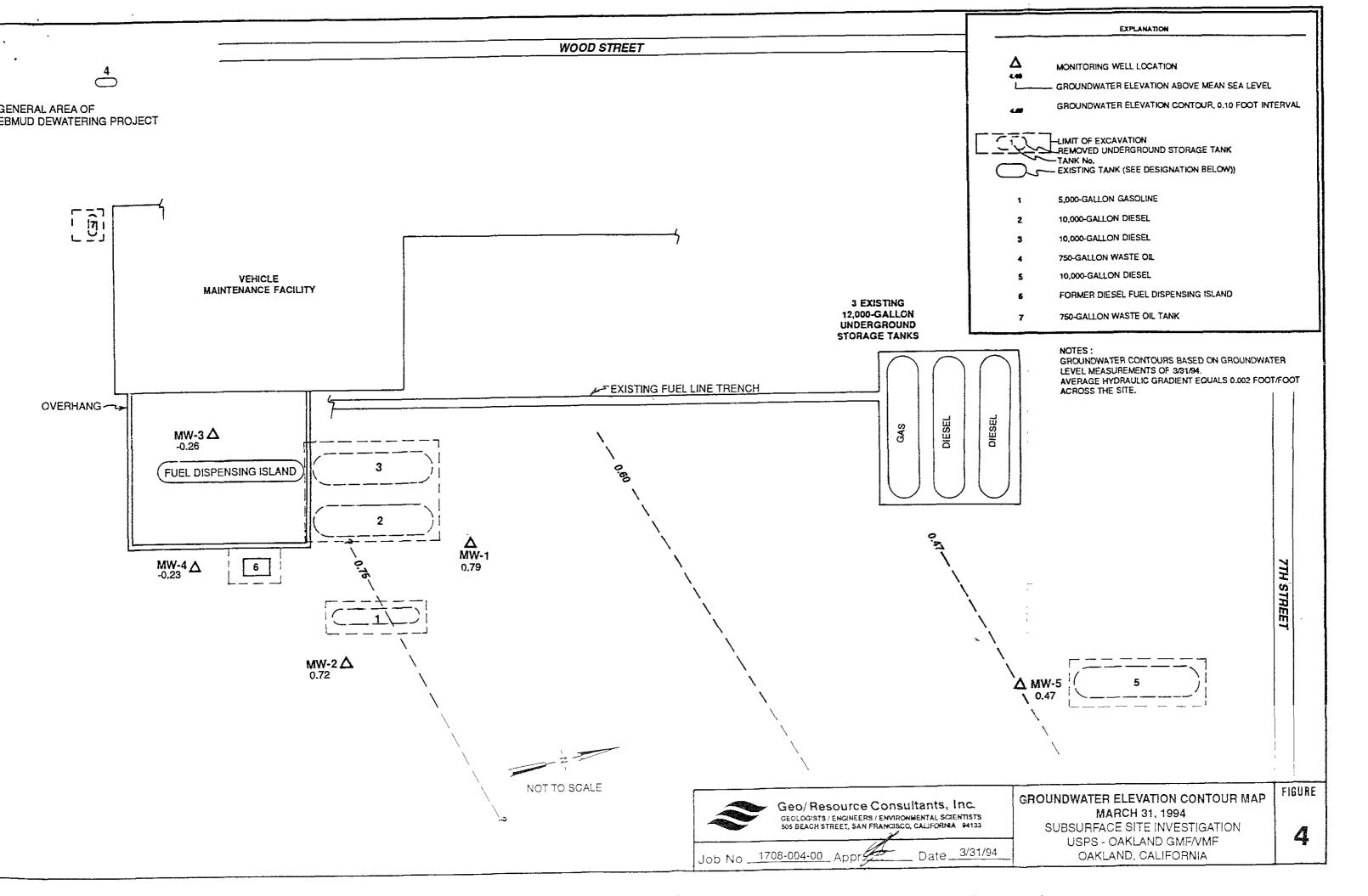
Alvin K. Joé, Jr., C.E.G.

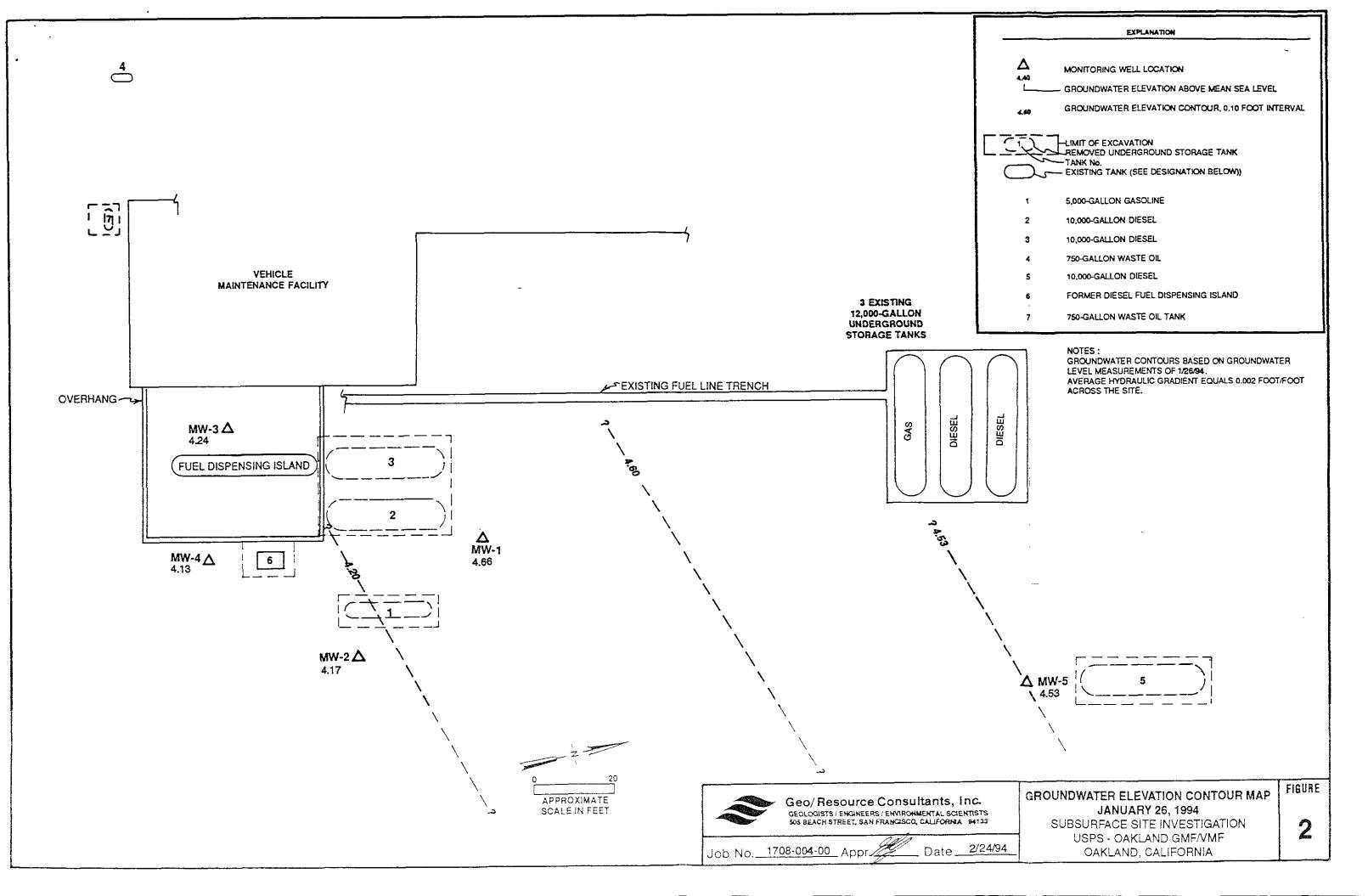
President and CEO

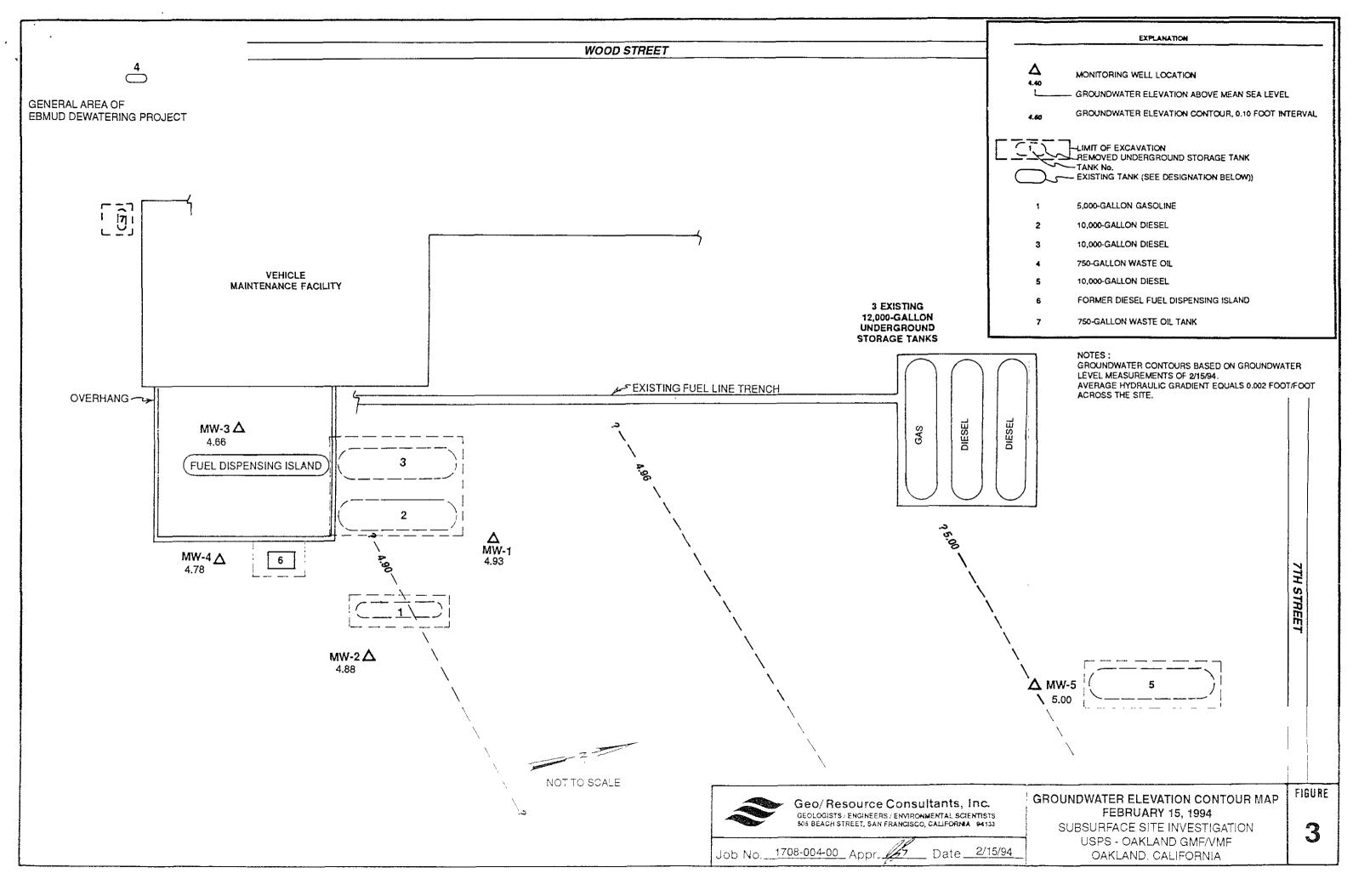
Ms. Jennifer Eberle, ACDEH, 80 Swan Way, Room 350, Oakland, CA, 94621, (510) 271-4530 Stan Scott, USPS, 850 Cherry Ave., San Bruno, CA, 94099-0311 Steve Wake, USPS, 1675 7th St., Oakland, CA, 94615 GRC Project File 1708-004-00

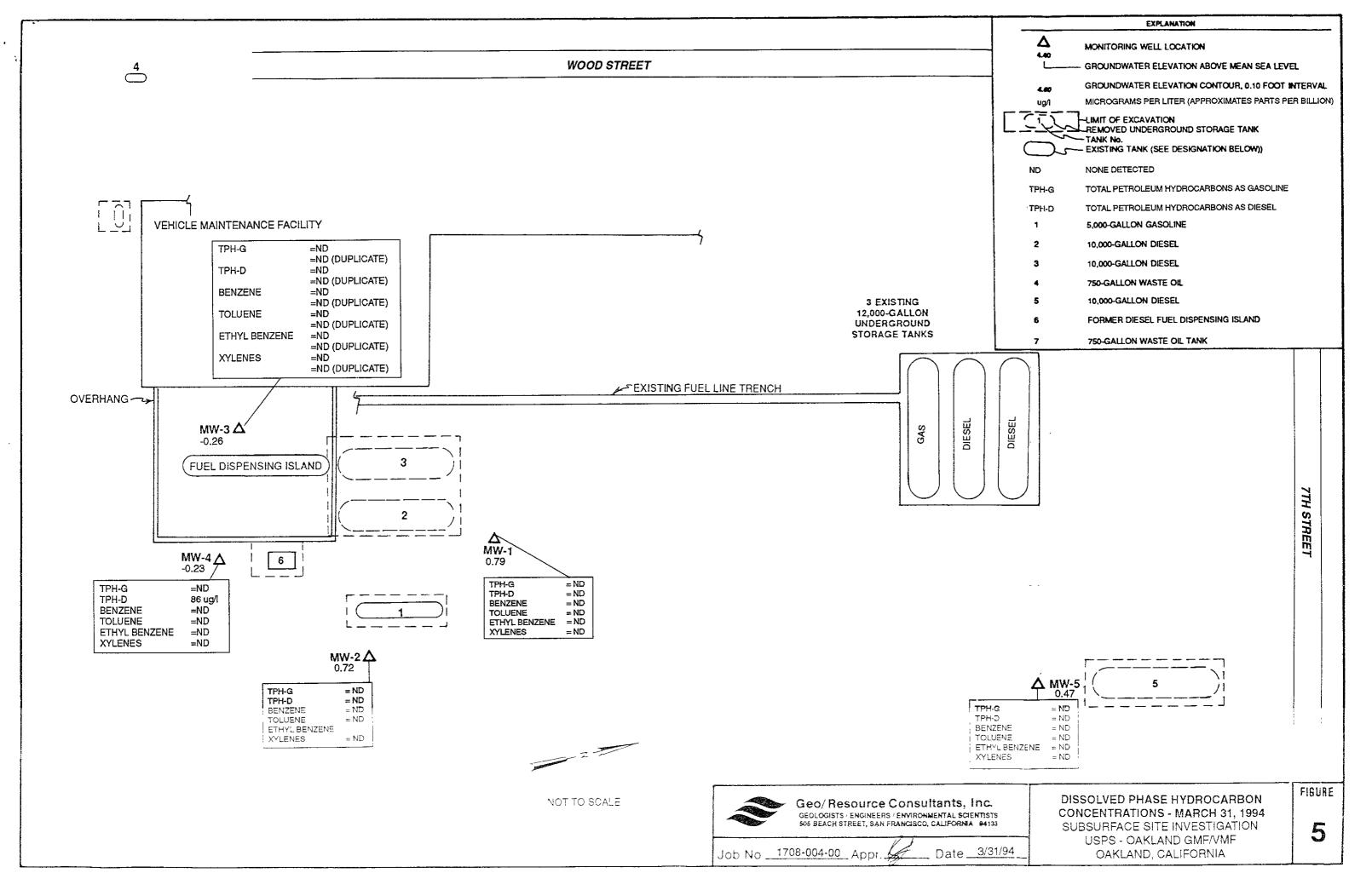
#### **ATTACHMENTS**











### QUARTERLY GROUNDWATER MONITORING PROGRAM DATA SUMMARY TABLE\*

## UNITED STATES POSTAL SERVICE - GENERAL MAIL FACILITY/VEHICLE MAINTENANCE FACILITY 1675 - 7TH STREET, OAKLAND, CALIFORNIA 94165

	MONTHLY	MONTHLY GROUNDWATER	QUARTERLY						
WELL	GROUNDWATER: MEASUREMENT	LEVELS	SAMPLING	т₽н∞в	TPH-D	В	in Spini	. Est.	X
NUMBER	DATES	(Ft. AMSL)	DATES	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-1***	9/93	4.40	9/93	ND/	ND/	ND/	ND/	ND/	ND/
				ND	ND	ND	ND	ND	ND
	1/26/94	4.66	1/26/94	ND	ND	ND	ND	ND	ND
	2/94	4.93	2/94						
	3/94	0.79	3/94	ND	ND	ND	ND	ND	ND
MW-2	9/93	4.31	9/93	ND	ND	ND	ND	ND	ND
	1/94	4.17	1/94	ND	ND	ND	ND	ND	ND
	2/94	4.88	2/94						
	3/94	0.72	3/94	ND	DИ	ND	ND	ND:	ND
MW-3	9/93	4.28	9/93	ND	ND	ND	ND	ND	ND
	1/94	4.24	1/94	ND	ND	ND	ND	ND	ND
	2/94	4.66	2/94						
	3/94	-0.26	3/94	ND/	ND/	ND/	ND/	ND/	ND/
				ND	ND	ND	ND	ND	ND
MW-4***	9/93	4.18	9/93	ND	580	ND	ND	ND	ND
	1/94	4.13	1/94	ND/	350/	0.7/	ND/	ND/	ND/
				ND	450	0.8	ND	ND	ND
	2/94	4.78	2/94	·					
	3/94 -0.23 3/94		ND	86	ND	ND	ND	ND	
MW-5	9/93	4.60	9/93	ND	NC:	ND	ND	ND	ND
	1/94	4.53	1/94	ND	ND	ND	ND	ND	ND
	2/94	5.00	2/94						
	3/94	0.47	3/94	ND	ND	ND	ND	ND	ND
1	Detecti	on Limit	,	50	50	0.5	0.5	0,5	0.5
	Test I	Method	99, 300 july 1990 see	8015M	8015M	8020	8020	8020	8020
	Regulato	ry Criteria		**	***	**	**	*/*	<b>.</b> • •

#### NOTES:

TPH-G: Total Petroleum Hydrocarbons as Gasoline TPH-D: Total Petroleum Hydrocarbons as Diesel

B :Benzene T :Toluene

E: Ethyl Benzene X: Total Xylenes

Ft. AMSL :Feet Above Mean Sea Level

ug/L :Micrograms per liter (approximates parts per

billion (ppb).

--- :Not Analyzed/Not Measured

NA Not Applicable/Not Available

ND :Not Detected Above Reported Detection limits

\* :All analyses by Superior Precision Analytical, Inc.

\*\* :Regulatory criteria has not been established for these constituents in groundwater.

\*\*\* :Results of Discrete and Duplicate sample analyses are listed as Discrete/Duplicate (e.g. 850/450).





## CHROMALAB, INC.

Environmental Services (SDB)

April 5, 1994

ChromaLab File#: 9404019

GEO/RESOURCE CONSULTANTS, INC.

Atten: B. Barber/G. Goodman

Project: USPS-OAKLAND

Received: April 1, 1994

Project#: 1708-004

re: 6 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled on: March 31, 1994  $\nu$ 

Method: EPA 5030/8015/602

Analyzed on: April 4, 1994

Run#: 2590

Ethy1 Total Xylenes Toluene Benzene Gasoline Benzene (ug/L) (ug/L) (uq/L)(ug/L) (ug/L) Lab # SAMPLE ID N.D. N.D. N.D. N.D. N.D. 48008 MW-1 N.D. N.D. N.D. N.D. N.D. 48009 MW-2 N.D. N.D. N.D. N.D. N.D. 48010 MW-3 N.D. N.D. N.D. N.D. N.D. 48011 MW-4 N.D. N.D. N.D. N.D. N.D. 48012 MW-5 N.D. N.D. N.D. N.D. N.D. 48013 MW-6 0.5 0.5 0.5 0.5 50 DETECTION LIMITS N.D. N.D. N.D. N.D. N.D. BLANK 105 104 109 BLANK SPIKE RECOVERY(%) 81 96

ChromaLab, Inc.

Jack Kelly Chemist Eric Tam

Laboratory Director

# CHROMALAB, INC.

**Environmental Services (SDB)** 

April 7, 1994

ChromaLab File No.: 9404019

GEO/RESOURCE CONSULTANTS, INC.

Attn: B. Barber/G. Goodman

RE: Six water samples for Diesel analysis

Project Name: USPS-OAKLAND Project Number: 1708-004

Date Sampled: March 31, 1994 Date Submitted: April 1, 1994 Date Extracted: April 5, 1994 Date Analyzed: April 5, 1994

#### **RESULTS:**

Sample I.D.	Diesel (μg/L)
MW-1 MW-2	N.D. N.D.
MW-3	N.D.
MW-4 MW-5	86 N.D.
MW-6	N.D.

BLANK	N.D.
SPIKE RECOVERY	95%
DUP SPIKE RECOVERY	101%
DETECTION LIMIT	50
METHOD OF ANALYSIS	3510/8015

ChromaLab, Inc.

Alex Tam

Analytical Chemist

Eric Tam

Laboratory Director

TRANSPORTER-PINK

Geo/Resource
GEOLOGISTS / ENGINEERS
DESCRIPTIONS OFFICER ON

Geo/Resource Consultants, Inc. GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS

CHAIN OF CUSTODY REGORD

Order #158/2 019/48008 - 418013 PROJECT NO. 1708-004 DATE 3/3/194 PAGE 1 -- 1

851 HAR	RISON STREET, SAN	N FRANCISCO, CA	ALIFORNIA 94107	CHAII	A OF	- Cl	181				ΚD			DATE	2/3// 44	Р/	GEOF
PROJECT NAME Client Address	ECT NAME USPS-Vakland								THE		AN	/ , c	UBM #: LIENT: UE:	GEOF			
SAMPLERS (SIGI LABORATORY	NATURE) _	Atrian 14 Lub	Farher			- /s	301	19030	5 4 40 5 40	54 M		,	EF: 15		7.0° /		,
SAMPLE NO.	DATE	TIME	LOCATIO	ON	<b>7</b>	8 / C	<u>?/</u>	&/ 4	<u> </u>	<u> </u>					**		
MW-1	3/31/94	2:35th	MW-10	ses oakland			1							4.	1 L. Amb	ert	3 VOA'S
MW-2	l t	3100 pM	1	f t	X					L				4	h		11
MW-3	11	3ilo PM	MW-3	"	X	X								4	11		u
MW-4	ft	3:45PM	MW-4	<b>{ {</b>	X	上								4	(1		(l
MW-5	\\L	2:10 PM	MW-5	"(	X	X								4	Į (		<i>r</i> 1
MW-6		3:20PM	MW-6	ч	X	X		<u> </u>						4	<u>U</u>		11
						<del>                                     </del>									5-day	tum.	-awund
A DELINOTHEURN	/av-	DATE	O DEL INOUISHED	RV.		NATE	<b>F</b> :	RELIN	OUIS	HED	BY:		DATE		Mati		
Clar Llie	1 RELINQUISHED BY:		3 RELINQUISHED BY: Signature				5 RELINQUISHED BY:							SAMPLE CONDITIONS			
Signature  ANGIOUT - (TUATELL Printed Name  GO) LESOURE COUL		TIME 225	Rrinted Name			TIME	Printed Name  Company				TIME	RI	SEALED YES/NO RECEIVED ON ICE YES/NO SPECIAL SHIPMENT/HANDLING				
2 RECEIVED BY: Signature			4 RECEIVED BY: Signature				. •	6 RECEIVED BY (LAB): Signature				DATE 1/1/9 142/9	T 01	or storage requirements: Please FAX besults to Brian Barber/Glehn Gordman			
Printed Name		TIME	Printed Name		<b>-</b>   <sup>1</sup>	TIME	6	Printed Name  Chromalah  Company				- TIME - /429	SHII	SHIPPING TICKET NO.:			