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August 5, 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 APRIL, MAY, JUNE - 1994
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 Quarter fluid-level monitoring Fourth 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, Groundwater samples were sent to a state-MW-4, and MW-5. certified laboratory for analyses. All field work was completed in accordance with the ACDEH-accepted "Site Characterization Workplan," prepared by GRC, dated August 26, 1993. groundwater recovered during sampling was drummed pending proper disposal based on the analytical data. The results are attached.

Analytical results for wells MW-2 and MW-5 remained at or near reported laboratory detection limits. MW-4 results indicated diesel at 250 micrograms per Liter (ug/L; approximates parts per billion (ppb)) and benzene at 1.6 ppb. A blind duplicate quality control sample (MW-6) was collected and analyzed from MW-4. The results indicated diesel at 260 ppb and benzene at 1.7 ppb. For the first time in the 1994 monitoring program, MW-1 results indicated diesel at 73 ppb. According to laboratory, sample MW-1 was reanalyzed twice. In both analyses, the surrogate recovery was low. Due to the low amount of water in sample MW-1, the extraction was not possible. Dewatering in the immediate area precluded collection of a sample from MW-3.

Groundwater continued to flow in a general <u>southerly</u> direction across the site.

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

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Project for the Cypress Freeway Reconstruction, was expected to lower the water table approximately 20 feet by the end of May 1994. This was to 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, July 13, 1994, (510) 287-1624), other utilities will also dewater the area to accommodate various construction phases following EBMUD's to the more shallow installation However, due 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 dewatering system and tested, and that no contaminants of concern have been detected. EBMUD stated that the dewatering system pumping rate has been decreased to approximately 40 percent (%) of its approximate maximum capacity of 500 gallons per hour which was pumped in June 1994 using 16 pumps in the immediate vicinity. The pumping volumes will be decreasing until the end of September 1994 when the sewer line construction will be completed.

The Fourth Quarter decrease in groundwater elevations, (and) the slight increases in the diesel and benzene concentrations at MW-4, may be partially attributable to the adjacent EBMUD dewatering project. The remaining monthly groundwater elevation measurements may also be affected by the dewatering project.

GRC recommends continuing this monitoring program to assess detected concentrations of diesel and benzene, and the affects of dewatering at adjacent sites.

ATTACHMENTS:

0	Figure 1:	Vicinity Map
0	Figure 2:	Groundwater Elevation Contour Map, April 15, 1994
0	Figure 3:	Groundwater Elevation Contour Map, May 17, 1994
0	Figure 4:	Groundwater Elevation Contour Map, June 24, 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

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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. Joe, Jr., C.E.G.

President and CEO

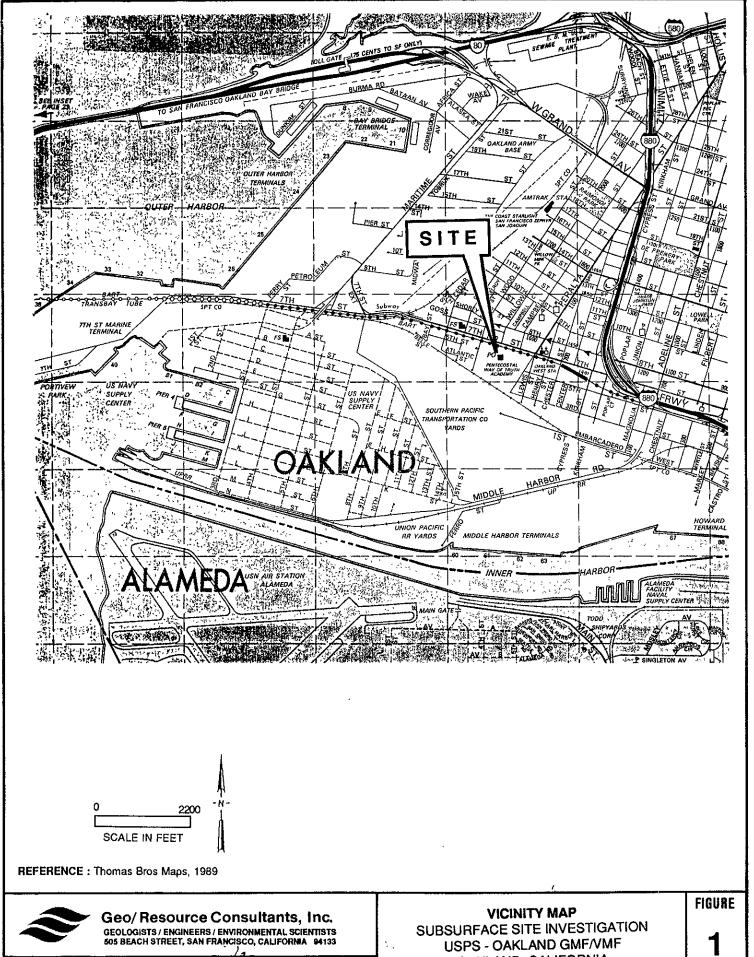
Jennifer Eberle, ACDEH, 80 Swan Way, Room 350, Oakland, CA, 94621, (510) 271-4530

Scott Ross, USPS, 850 Cherry Ave., San Bruno, CA, 94099-0311

Steve Wake, USPS, 1675 7th St., Oakland, CA, 94615

GRC Project File 1708-004-00

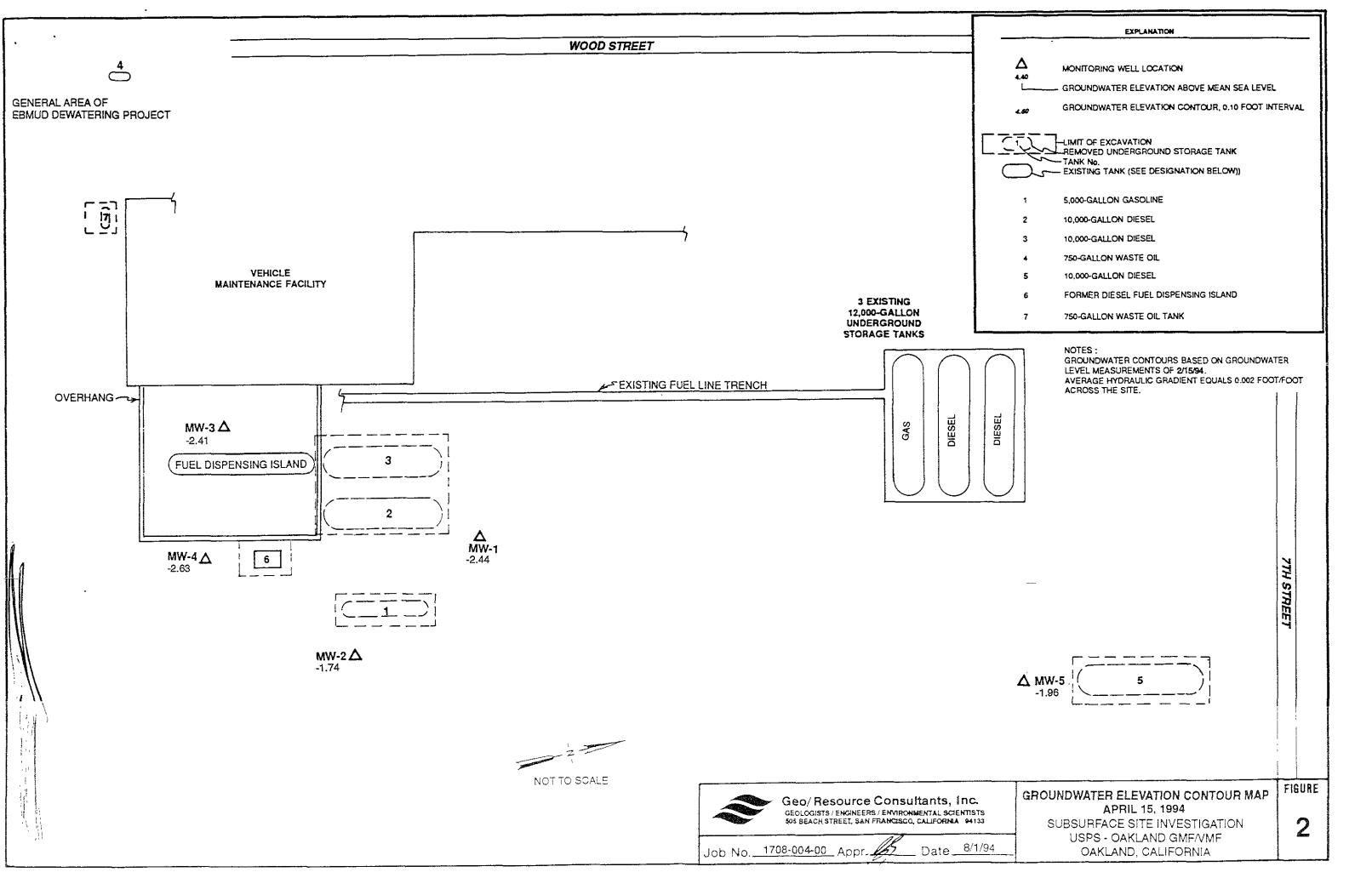
ATTACHMENTS

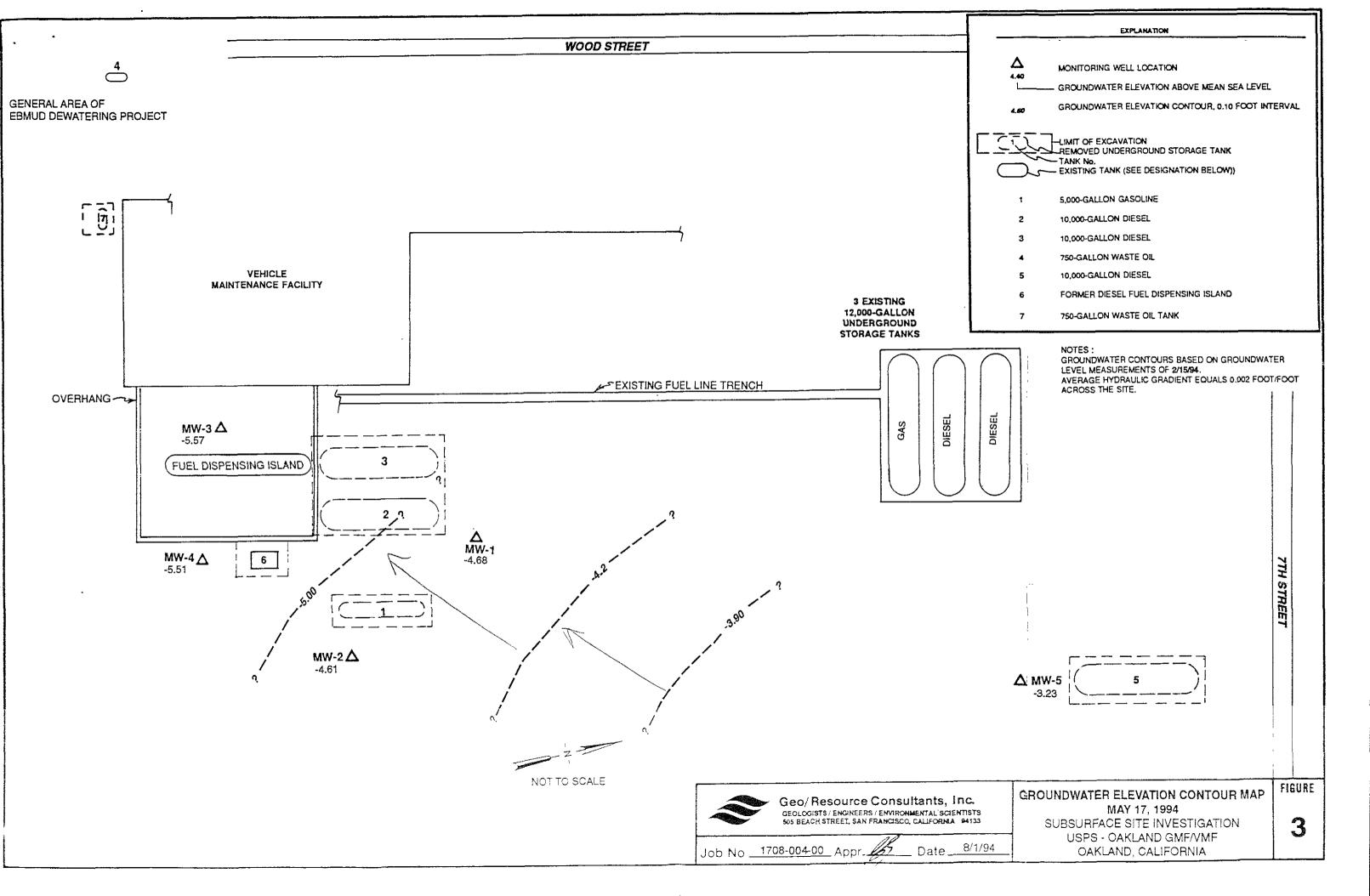


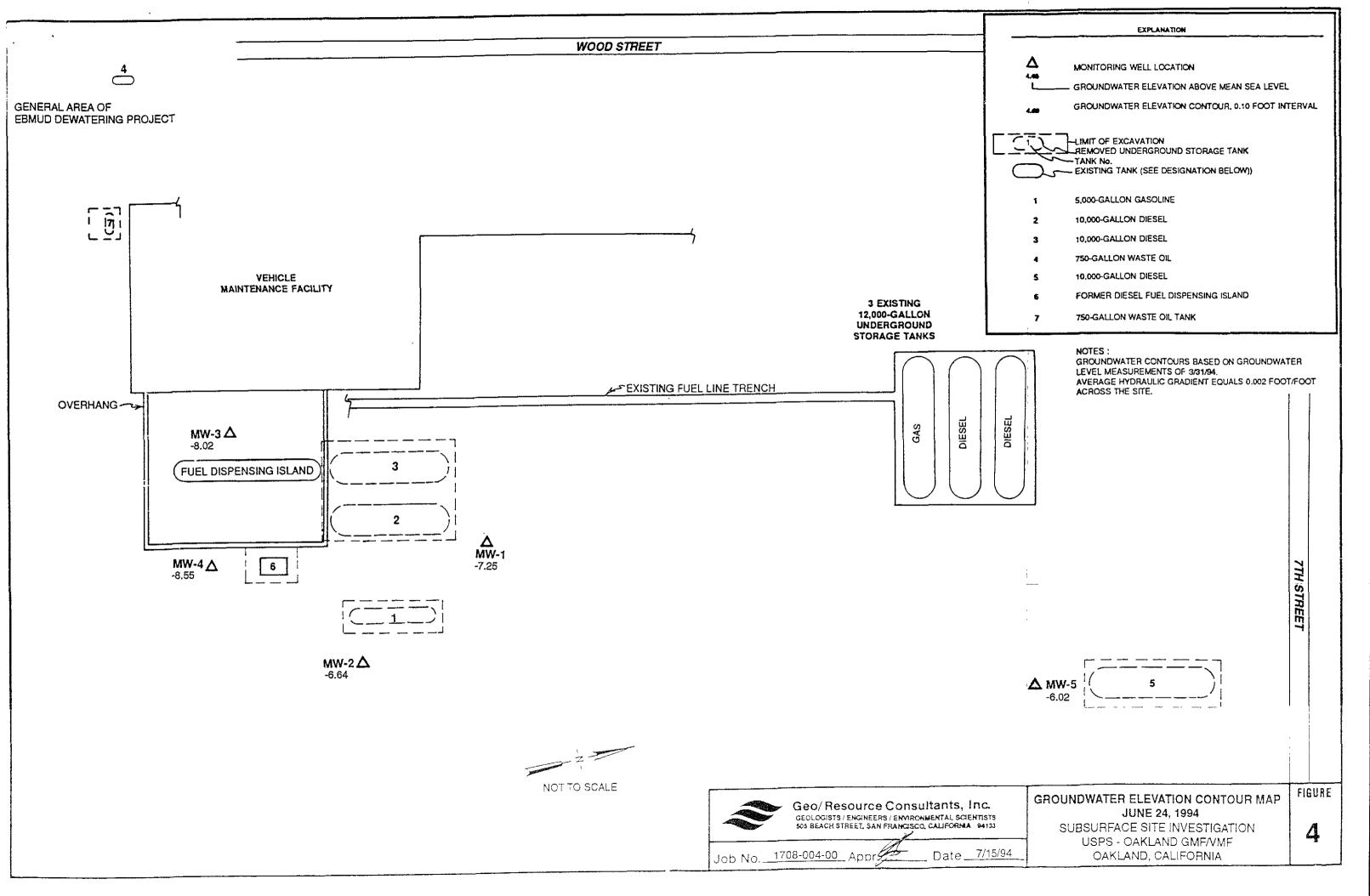
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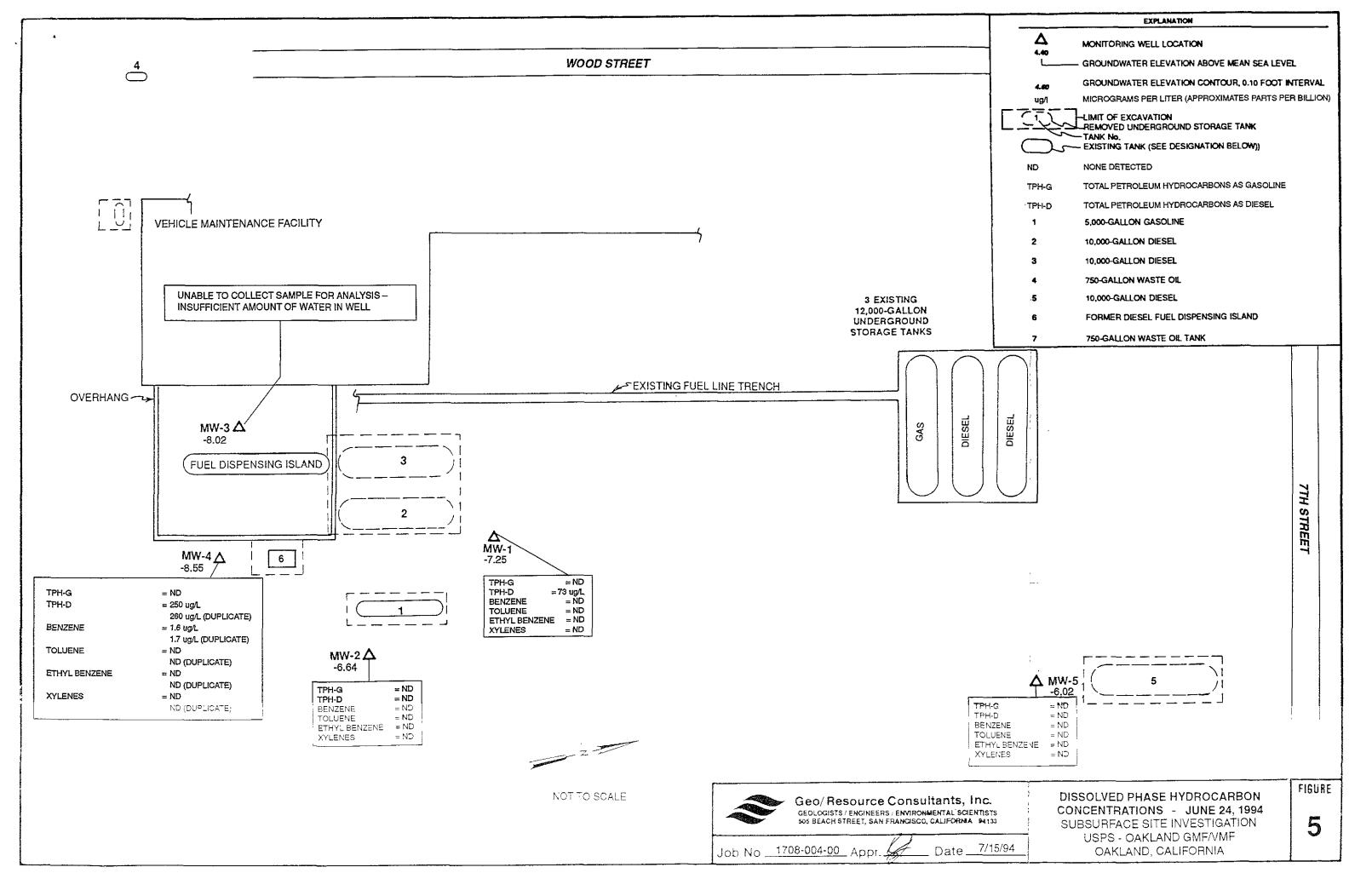
10/19/93 Date

OAKLAND, CALIFORNIA









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	QUARTERLY			X1.				
	GROUNDWATER		GROUNDWATER			2 3 3				
NUMBER	MEASUREMENT	LEVELS (Ft. AMSL)	SAMPLING DATES	TPH+G (ug/L)	TPH-D (UD/L)	B (ug/L)	(ug/L)	E (ug/L)	X (ug/L)	
MW-1***	9/93	4.40	9/93	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	
MW-1	1/26/94	4.66	1/94	ND	ND	ND	ND	ND	ND	
	2/94	4.93	1/54	110	710	ND	140	,40	- 1,0	
	3/94	0.79	3/94	ND	ND	ND	ND	ND	ND	
	4/94	-2.44	0,01				1112			
	5/94	-4.68								
	6/94	-7.25	6/94	ND /	73	ND ·	ND	ND	ND	
MW-2	9/93	4,31	9/93	ND	ND	ND	ND	ND	ND	
IAIAAC	1/94	4.17	1/94	ND	ND	ND	ND	ND	ND	
	2/94	4.88	1/34	ND					110	
	3/94	0.72	3/94	ND	ND	ND	ND	ND	ND	
	4/94	-1.74		IND	110			,,,,	,,,,,,	
	5/94	-4.61	1							
	6/94	-6.64	6/94	ND /	ND /	ND /	ND	ND	ND	
MW-3	9/93	4.28	9/93	ND	ND	ND	ND	ND	ND	
WAA-2	1/94	4,24	1/94	ND	ND	ND	ND	ND	ND	
	2/94	4.66	1754	IND	110	- ND	IND	HD	110	
	3/94	-0.26	3/94	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	
	4/94	-2.41	3/34	NOMO	ND/ND	140/140	NONNO	NUMB	HOME	
	5/94	-5.57								
	6/94	-8.02	6/94	INSI	FFICIENT	WATER -	NO SAMP	CTED		
MW-4***	9/93	4.18	9/93	ND	580	ND	ND	ND	ND	
MAA-4	1/94	4.13	1/94	ND/ND	850/450	0.7/0.8	ND/ND	ND/ND	ND/ND	
	2/94	4.78	1704	INDINO	000/400	0.770.0	1101110		1107110	
	3/94	-0.23	3/94	ND	86	ND	ND	ND	ND	
	4/94	-0.23	0/37	110		110	110			
	5/94	-5.51							· · · ·	
	6/94	-8.55	6/94	ND /	250/260	1.6/1.7	ND	ND	ND	
MW-5	9/93	4.60	9/93	ND	ND	ND	ND	ND	ND	
C-AAIM	1/94	4.53	1/94	ND	ND	ND	ND	ND	ND	
	2/94	5.00	1/34	IND	NO	110	1 10	110	110	
	3/94	0.47	3/94	ND ND	NĎ	ND	ND	ND	ND	
	4/94	-1.96	3/34	110	IAD	ND	172	140	1.10	
	5/94	-3.23	1	-		-		 	 	
	6/94	-6.02	6/94	ND /	ND /	ND /	ND	ND	ND	
	Detect		1 0/54	50	50	0.5	0.5	0.5	0.5	
				8015M	8015M	8020	8020	8020	8020	
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NOTES:

TPH-G :Total Petroleum Hydrocarbons as Gasoline

TPH-D :Total Petroleum Hydrocarbons as Diesel

8 :Benzene

ensuloT: T

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)

July 5, 1994

Submission #: 9406316

GEO/RESOURCE CONSULTANTS, INC.

Atten: GARY FLOYD

Project: USPS-OAKLAND

Project #: 1708-004-00

Received: June 27, 1994

5 samples for Diesel analysis

Matrix: WATER

Sampled: June 24, 1994

Analyzed: July 1, 1994

RESULTS:

Sample I.D. Diesel (µq/L)

MW-1	73*
MW-2	N.D.
MW-4	250
MW-5	N.D.
MW-6	260 🕆

* The sample was reanalyzed twice. In both analysis, the surrogate recovery was low. Due to low amount of sample, the extraction was not possible.

BLANK	N.D.
SPIKE RECOVERY	88%
DUP SPIKE RECOVERY	86%
DETECTION LIMIT	50
METHOD OF ANALYSIS	3510/8015

ChromaLab, Inc.

Sinat ahllakom

Sirirat Chullakorn Analytical Chemist Organic Manager

gg

CHROMALAB, INC.

Environmental Services (SDB)

July 5, 1994

Submission #:

9406316

GEO/RESOURCE CONSULTANTS, INC.

Atten: GARY FLOYD

Project: USPS-OAKLAND

Project#: 1708-004-00

Received: June 27, 1994

re: 5 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled: June 24, 1994 /

Lab Run#: 3263 Ana

Analyzed: July 1, 1994

Method: EPA 5030/8015M/602

Lab # SAMPLE ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
55789 MW-1 55790 MW-2 55792 MW-4 55793 MW-5 55794 MW-6	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. 1.6/ N.D./ 1.7	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.
DETECTION LIMITS BLANK BLANK SPIKE RECOVERY(%)	0.05 N.D. 110	0.5 N.D. 94	0.5 N.D. 96	0.5 N.D. 89	0.5 N.D. 98

ChromaLab, Inc.

Jack Kelly

Chemist

Ali Kharrazi Organic Manager

Ali Harroy

SAMPLER-GOLD

TRANSPORTER-PINK

LAB-YELLOW

GRC-WHITE AND GREEN

Geo/Resource Consultants, Inc.

SUBM #: 9406316 CLIENT: KJ

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MW-2		n	1500	MW-Z		/	/	. 1. 3	AB-		1		/		4	<u> </u>		
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MW-S		n	1245	MM-Z		~	/				_		1		4	L	~	
MW-6		-	400	MM-6	:	~	/				-		/		4	!	<u></u>	
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