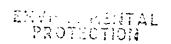
100 Pine Street 10th Floor San Francisco CA 94111 (415) 434-9400 • FAX (415) 434-1365





18 October 1995 Project 2868.02

95 OCT 19 PM 1:58

Ms. Amy Leach Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502

Subject: Quarterly Monitoring Report

July through September 1995

National Guard Organizational Maintenance Shop No. 35

16501 Ashland Avenue San Lorenzo, California

Dear Ms. Leach:

On behalf of the Division of State Architect (DSA) and the National Guard, Geomatrix Consultants, Inc. (Geomatrix), is submitting the Groundwater Monitoring Report for the quarter July through September 1995 for the National Guard site at 16501 Ashland Avenue in San Lorenzo, California. This sampling event was performed in response to a 22 December 1994 letter from Alameda County Department of Environmental Health to the DSA.

If you have any questions or require additional information, please contact Mr. Homer Lin of the DSA at (916) 445-6939 or either of the undersigned.

Project Director

ERED GEOLO

No. 4559

Sincerely yours,

Geomatrix Consultants, Inc.

Lisa D. Rowles, R.G. Project Manager

hoa D. Rown

LDR/SEG/bab CONTR\2868Q395.LTR

Attachment

cc: H. Lin, P.E. - Division of State Architect Bernadet Shields, SFC - National Guard

Geomatrix Consultants, Inc.

Engineers, Geologists, and Environmental Scientists



QUARTERLY MONITORING REPORT JULY-SEPTEMBER 1995 National Guard Organizational Maintenance Shop No. 35 16501 Ashland Avenue San Lorenzo, California

Prepared for

Division of State Architect 1300 I Street Sacramento, California 95814

October 1995 Project No. 2868

Geomatrix Consultants



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Appendix A Laboratory Analytical Results and Chain-of-Custody Records



QUARTERLY MONITORING REPORT JULY-SEPTEMBER 1995

National Guard Organizational Maintenance Shop No. 35 San Lorenzo, California

1.0 INTRODUCTION

This report summarizes groundwater monitoring activities performed by Geomatrix Consultants, Inc. (Geomatrix), on behalf of the Division of the State Architect (DSA), for the period July through September 1995, at the National Guard Organizational Maintenance Shop No. 35 located at 16501 Ashland Avenue, San Lorenzo, California (the Site; Figure 1). Geomatrix performed the sampling in response to a 22 December 1994 letter from Alameda County Department of Environmental Health.

This report contains the following information:

- a description of the methods used to measure groundwater levels and collect groundwater samples
- monthly groundwater level measurements
- potentiometric surface maps
- groundwater analytical data for samples collected on 11 August 1995
- a description of quality assurance/quality control procedures and results.

The locations of the monitoring wells at the site are shown on Figure 2.

2.0 WATER LEVEL MEASUREMENTS

Groundwater levels were measured in the three existing monitoring wells on 18 July, 11 August, and 9 September 1995. Groundwater level measurements and results are discussed below.

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2.1 MBTHODS FOR MEASURING WATER LEVELS

Groundwater levels were measured monthly in the three on-site monitoring wells (MW-1, MW-2, and MW-3). Water levels were measured in the wells to the nearest 0.01 foot using an electric sounder. Prior to each measurement, the electric sounder was washed with laboratory-grade detergent, rinsed with deionized water, and wiped dry. The elevation of the water table was calculated by subtracting the depth to water from the elevations of the tops of the well casings.

2.2 RESULTS OF GROUNDWATER LEVEL MEASUREMENTS

The water-level elevations calculated from measurements collected by Geomatrix are presented in Table 1. In July, depth to water ranged from 6.55 to 9.0 feet below top of casing, and the groundwater elevation ranged from 25.54 to 28.98 feet above mean sea level. In September, depth to water ranged from 6.90 to 8.38 feet below top of casing and the groundwater elevation ranged from 27.64 to 27.94 feet above mean sea level. Since June of last quarter, the groundwater elevation has dropped 1.47 feet in MW-1, 1.46 feet in MW-2, and 1.39 feet in MW-1.

Potentiometric surface maps for July, August, and September 1995 are shown in Figures 3 through 6. These maps indicate that groundwater flow has consistently been towards the north during the third quarter. This general flow direction has been consistent since January 1995. The hydraulic gradient has ranged from approximately 0.07 foot per foot (ft/ft) in July 1995 to 0.006 ft/ft in September 1995.

3.0 QUARTERLY GROUNDWATER SAMPLING AND ANALYSIS

3.1 METHODOLOGY FOR SAMPLE COLLECTION

The three existing monitoring wells were sampled on 11 August 1995. Prior to sampling, a disposable polyethylene bailer and Flexi-Dip oil/water interface probe were used to detect whether free product was present in well MW-3. The probe was washed with laboratory-grade detergent, rinsed with deionized water, and wiped dry before the measurement. No free product was detected by either the bailer or the interface probe. To remove standing

CONTR\2868Q395.TXT



water and obtain samples representative of the formation, at least four casing volumes were purged from each well before a groundwater sample was collected. The wells were purged with a diaphragm pump and PVC intake tubing. A new intake hose was used at each well. The temperature, pH, and specific conductance of the purged groundwater were measured periodically during purging. These parameters stabilized and the produced water was visually clear prior to sample collection.

Groundwater samples were collected with disposable polyethylene bailers rinsed with deionized water immediately before sampling. Samples were collected by lowering the bailer below the water surface to approximately mid-screen level. The bailer volume was then carefully poured into EPA-approved containers, properly labeled, placed in an ice-filled cooler, and delivered to a state-certified analytical laboratory under Geomatrix chain-of-custody procedures. The samples were analyzed by Chromalab of Pleasanton, California, for total petroleum hydrocarbons (TPH) as diesel according to Environmental Protection Agency (EPA) Method 8015 (modified); TPH as gasoline according to modified EPA Method 8015; and benzene, toluene, ethylbenzene, and xylenes (BTEX) according to EPA Method 8020. Copies of laboratory analytical results and chain-of-custody records are included in Appendix A.

3.2 RESULTS OF CHEMICAL ANALYSIS

The analytical results for groundwater samples from MW-1, MW-2, and MW-3 are presented in Table 2. No TPH as diesel, TPH as gasoline, or BTEX were detected in the samples from wells MW-1 and MW-2. In the samples collected from monitoring well MW-3, TPH as gasoline was detected at 710 micrograms per liter (μ g/l); benzene was detected at 11 μ g/l; toluene at 3.2 μ g/l; xylenes at 23 μ g/l; and ethyl benzene at 110 μ g/l; no TPH-diesel was detected. These concentrations are significantly lower than the samples previously collected from well MW-3 on 14 July 1993 when TPH-gasoline was detected at 4100 μ g/l and xylenes were detected at 640 μ g/l. In comparison to the most recent sampling event of 3 May 1995, the concentrations have not changed significantly (Table 3). Monitoring well sample results for 11 August 1995 are presented on Figure 6.



4.0 QUALITY ASSURANCE AND QUALITY CONTROL

4.1 QA/QC PROCEDURES

Quality control samples were collected during the investigation and well sampling activities to provide quality assurance. These procedures are a part of Geomatrix's standard practice during hydrogeological investigations, and are conducted so that the data generated represent actual field conditions. For this sampling round, Geomatrix collected a field blank, and the laboratory analyzed three method blanks and one matrix spike/matrix spike duplicate to access precision, accuracy, and completeness.

4.2 QA/QC REVIEW RESULTS

Toluene was detected at 0.7 μ g/l in the field blank collected during the sampling activities. Therefore, the toluene detected in the sample from well MW-3 may not be representative of actual groundwater conditions at that well. The discrepancy is probably low however given the fact that the detection in the field blank was low.

The laboratory quality control sample results are presented in Table 4. All laboratory matrix spike and surrogate recoveries were within quality control limits and the data has met the requirements of precision, accuracy, and completeness as defined by Geomatrix. The data generated are considered complete in that these data are considered to adequately represent groundwater conditions during this quarter.



TABLES



TABLE 1

WATER LEVEL MEASUREMENTS

National Guard Organizational Maintenance Shop San Lorenzo, California

Well No.	Date	Depth Below TOC¹ (feet)	TOC Elevation (feet, msl ²)	Groundwater Elevation (feet, msl)
MW-1	11/22/94	8.92	35.53	26.61
	1/6/95	8.31	35.53	27.22
	4/20/95	5.12	35.53	30.41
	5/3/95	5.34	35.53	30.19
	6/9/95	6.14	35.53	29.39
	7/18/95	6.55	35.53	28.98
	8/11/95	7.13	35.53	28.40
	9/8/95	7.61	35.53	27.92
MW-2	11/22/94	9.41	36.32	26.91
	1/6/95	8.50	36.32	27.82
	4/20/95	6.16	36.32	30.16
	5/3/95	6.13	36.32	30.19
	6/9/95	6.92	36.32	29.40
	7/18/95	7.47	36.32	28.85
	8/11/95	7.90	36.32	28.42
	9/8/95	8.38	36.32	27.94
MW-3	11/22/95	7.89	34.54	26.65
	1/6/95	7.03	34.54	27.51
	4/20/95	4.55	34.54	29.99
	5/3/95	4.70	34.54	29.84
	6/9/95	5.51	34.54	29.03
	7/18/95	9.00	34.54	25.54
	8/11/95	6.48	34.54	28.06
	9/8/95	6.90	34.54	27.64

Note:

TOC = Top of casing (measuring point). msl = Above mean sea level.



TABLE 2

GROUNDWATER ANALYTICAL RESULTS¹ AUGUST 1995

National Guard Organizational Maintenance Shop San Lorenzo, California

Concentrations in micrograms per liter ($\mu g/l$)

Sample No.	Date Collected	TPH-d²	TPH-g ³	Benzene	Toluene	Xylenes	Ethylbenzene
MW-1	8/11/95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
MW-2	8/11/95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	8/11/95	< 50	710	11	3.2	23	110

Notes:

- Chemical analyses performed by Chromalab, Inc., of Pleasanton, California. Laboratory analytical reports detailing the analyses performed, method detection limits for each constituent, and analytical results are included in Appendix A.
- ² TPH-d = total petroleum hydrocarbons as diesel. Analysis by modified EPA Method 8015.
- TPH-g = total petroleum hydrocarbons as gasoline. Analysis by modified EPA Method 8015.



TABLE 3

HISTORICAL GROUNDWATER ANALYTICAL RESULTS¹ National Guard Organizational Maintenance Shop

National Guard Organizational Maintenance Shop San Lorenzo, California

Concentrations in micrograms per liter ($\mu g/l$)

Sample No.	Date Collected	TPH-d ²	TPH-g ³	Benzene	Toluene	Xylenes	Ethylbenzene
 MW-1	7/14/93	ND ⁴	ND	ND	ND	ND	ND
147 44 - 7	5/3/95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	8/11/95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
MW-2	7/14/93	ND	ND	ND	ND	ND	ND
11111 2	5/3/95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	8/11/95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	7/14/93	< 200	4100	<5	<5	640	<5
112 11 - 3	5/3/95	< 50	600	18	4.2	27	110
	8/11/95	< 50	710	11	3.2	23	110

Notes:

Chemical analyses performed by Chromalab, Inc., of Pleasanton, California. Laboratory analytical reports detailing the analyses performed, method detection limits for each constituent, and analytical results are included in Appendix A.

² TPH-d = total petroleum hydrocarbons as diesel. Analysis by modified EPA Method 8015.

³ TPH-g = total petroleum hydrocarbons as gasoline. Analysis by modified EPA Method 8015.

ND = not detected at or above detection limit; detection limit for these samples is unknown; sampling conducted and reported by TetraTech, Inc.



TABLE 4

SUMMARY OF PRECISION AND ACCURACY DATA AUGUST 1995

National Guard Organizational Maintenance Shop San Lorenzo, California

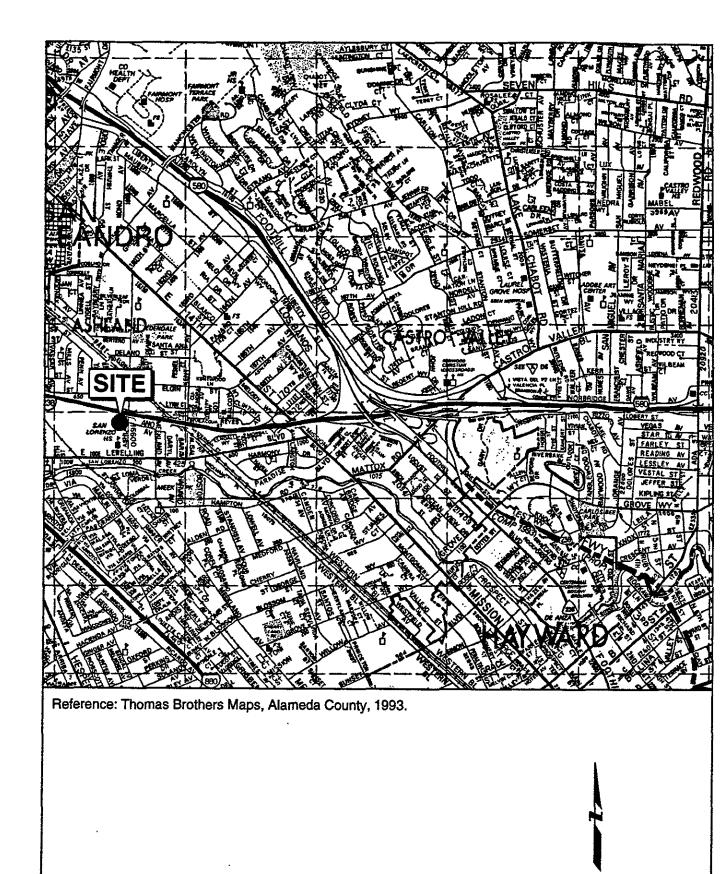
Matrix		Precis	ion Data	Accuracy Data		
Spike/Matrix Spike Duplicates ¹	Constituent	RPD ²	QA Goal ³	Recovery ⁴ %	QA Goal ³	
Monitoring Well	Diesel	3.5%	±20%	90-93	60-130	
Sampling Event	Gasoline	NA^5	±20%	98	80-118	
	Benzene	2.9%	±20%	102-105	80-127	
	Toluene	1.0%	±20%	102-103	80-122	
	Ethylbenzene	0.0%	$\pm 20\%$	106-106	81-119	
	Xylenes	1.0%	±20%	99-100	83-125	

Notes:

- Matrix spike and spike duplicate analyses were performed on samples from monitoring well MW-1.
- ² RPD = Relative percent difference. RPD = $\frac{2(C_1 C_2)}{(C_1 + C_2)} \times 100$
- ³ OA Goal = Quality assurance goal established by laboratory.
- Recovery = [(A-B)x100]T, where A = measured concentration after spiking, B = background concentration (laboratory or as measured in sample duplicate), and T = known true value of spike.
- NA = Duplicate sample not analyzed; RPD not calculated.



FIGURES

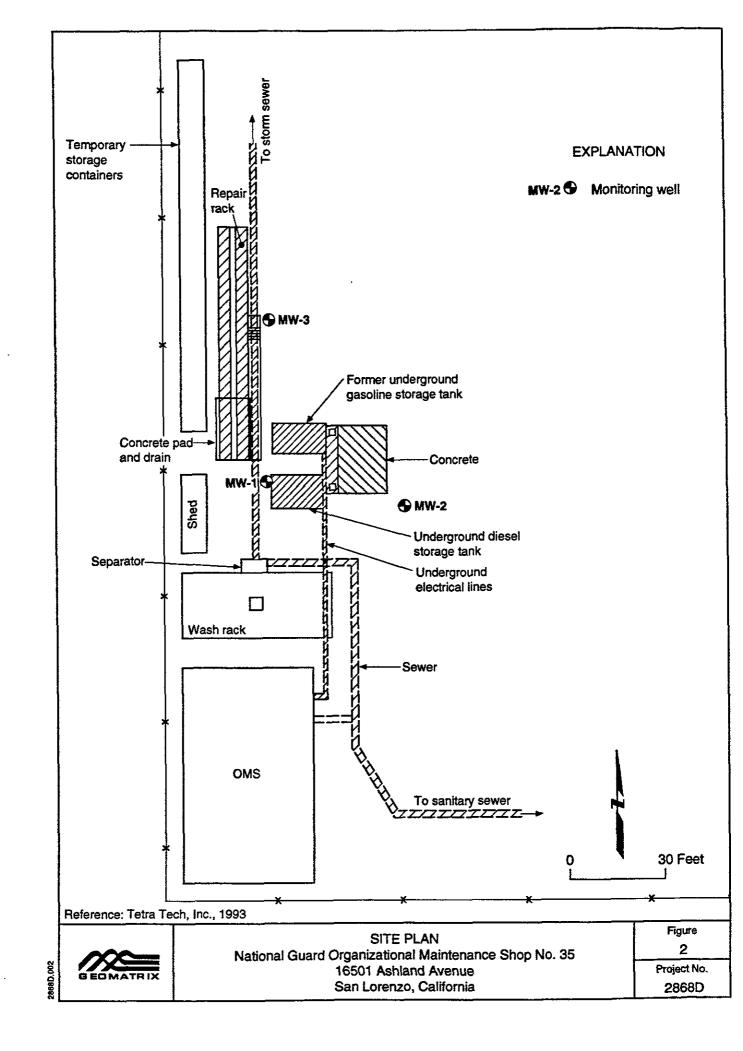


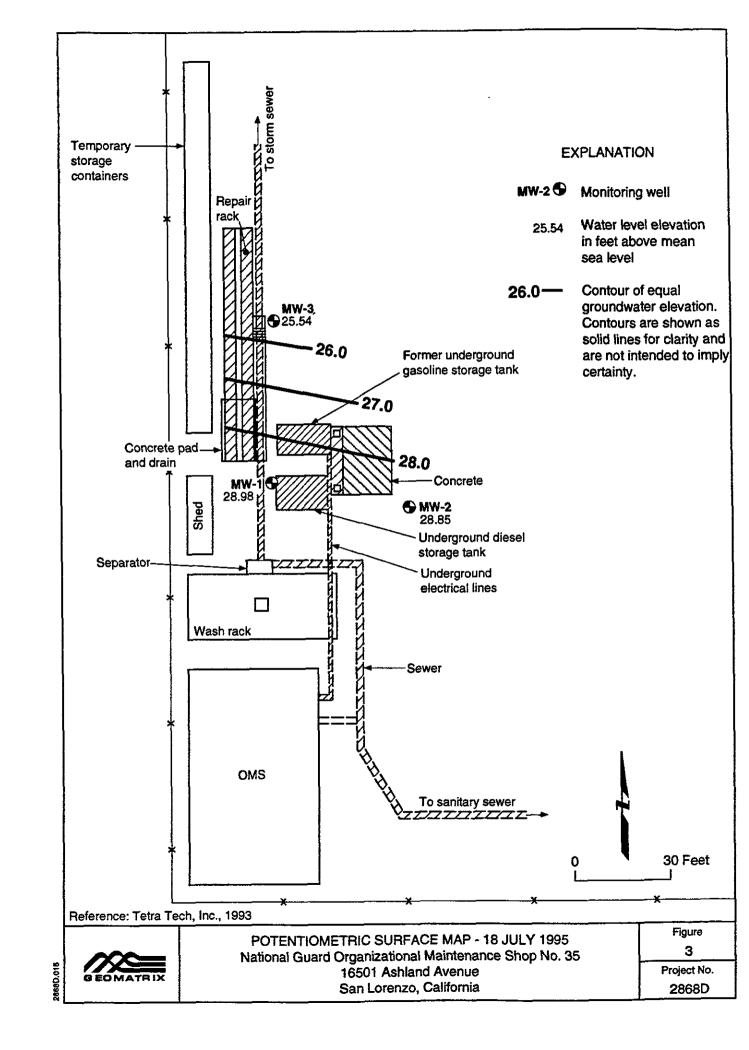


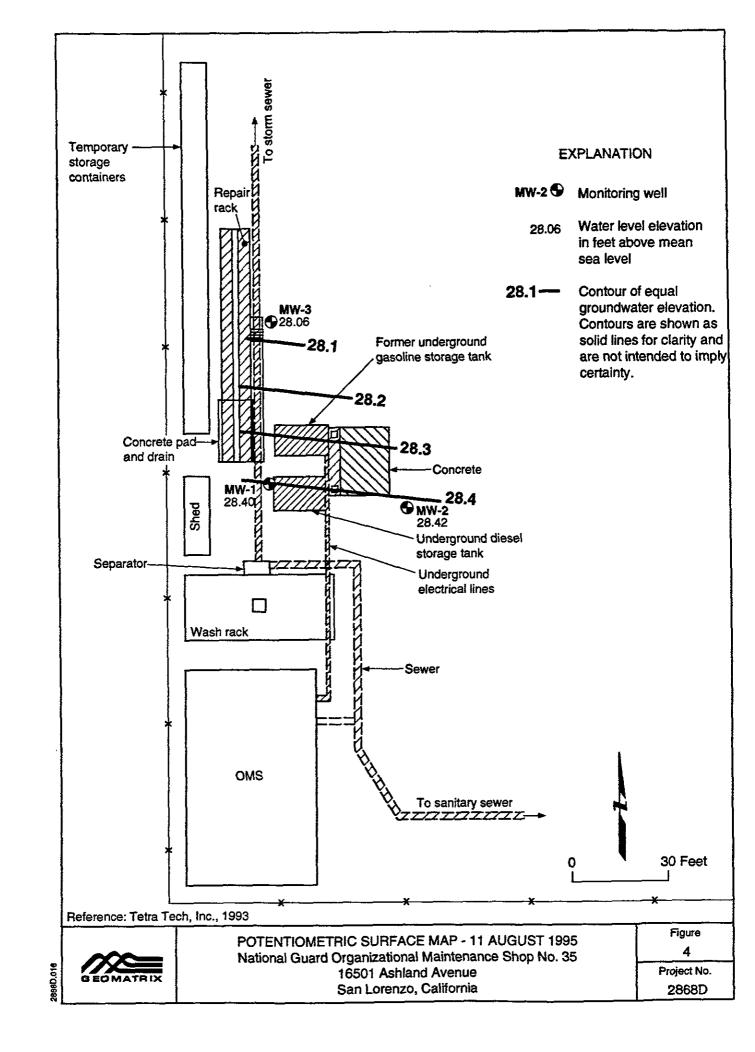
SITE LOCATION MAP
National Guard Organizational Maintenance Shop No. 35
16501 Ashland Avenue
San Lorenzo, California

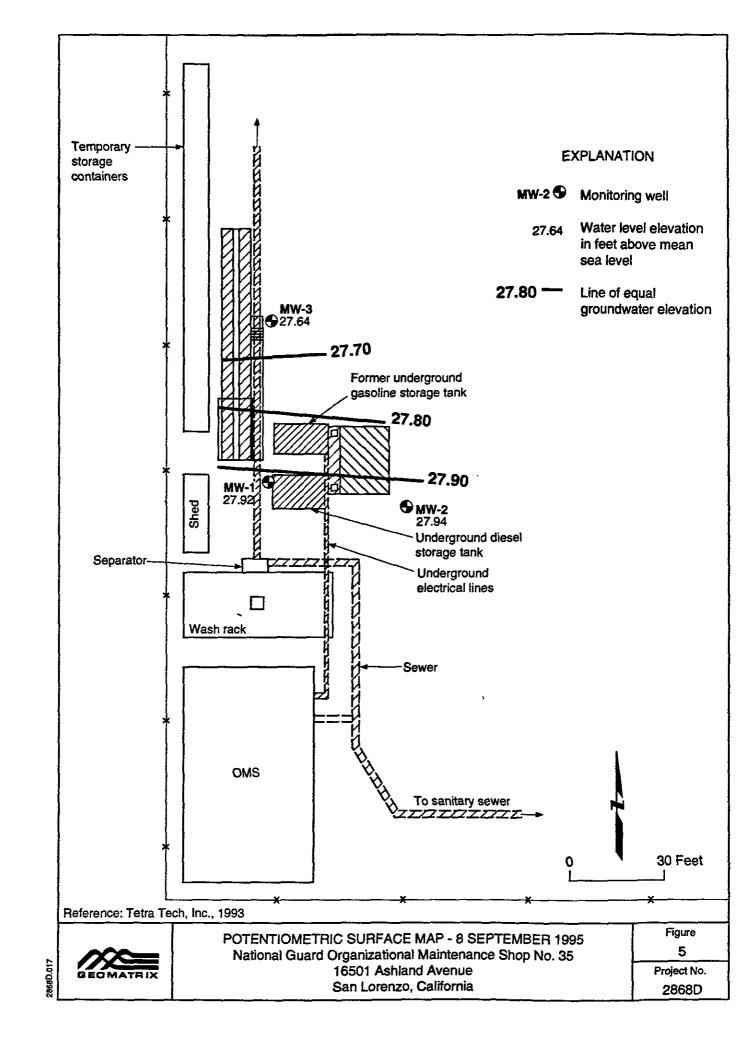
Figure
1
Project No.
2868D

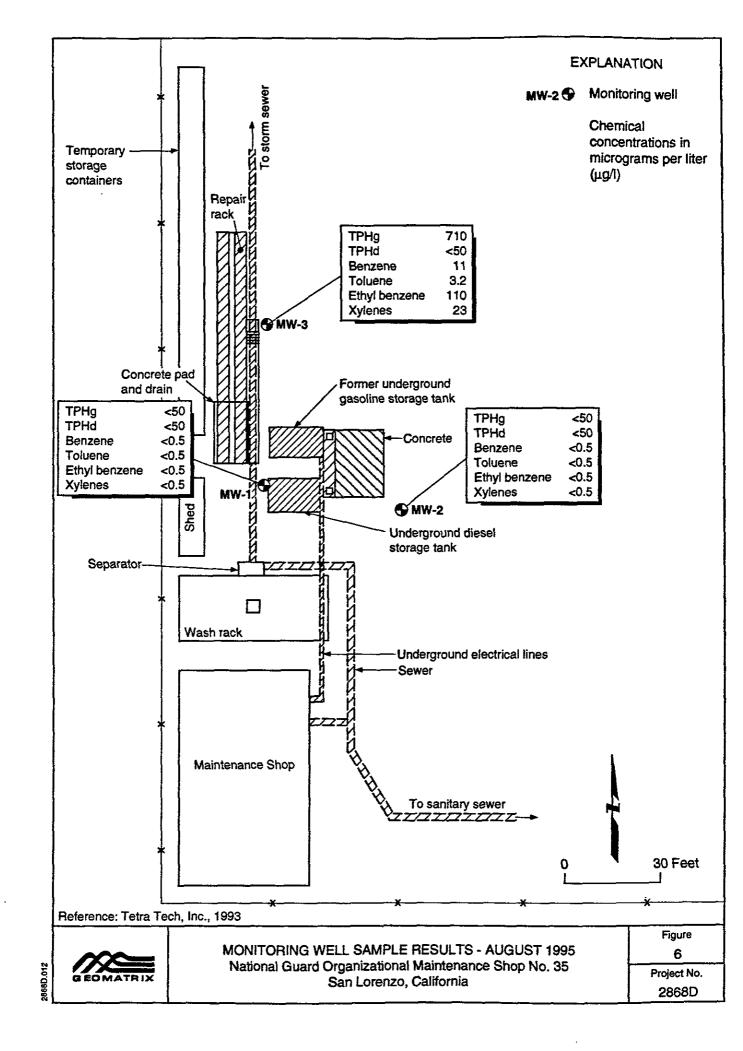
2000 Feet













APPENDIX A

Laboratory Analytical Results and Chain-of-Custody Records

Environmental Services (SDB)

August 21, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS 100 Pine St., Suite 1000 San Francisco, CA 94111

Attn: Lisa Rowles

RE: Analysis for project 2868.03.

REPORTING INFORMATION

Samples were received cold and in good condition on August 11, 1995. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

Please call us if you have questions regarding them.

SAMPLES SUBMITTED IN THIS REPORT

Client Sample_ID	Matrix	Date collected	Sample #
MW-1	WATER	August 11, 1995	99048
MW-2	WATER	August 11, 1995	99049
MW-3	WATER	August 11, 1995	99050
MW-4	WATER	August 11, 1995	99051
MW-5	WATER	August 11, 1995	99052
D-1	WATER	August 11, 1995	99053
D-2	WATER	August 11, 1995	99054
D-3	WATER	August 11, 1995	99055

Jill Thomas

Quality Assurance Manager

Eric Tam

Laboratory Director

Environmental Services (SDB)

August 18, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: 3 samples for Diesel analysis.

Method: EPA 3510/8015M

Sampled: August 11, 1995

Matrix: WATER

Extracted: August 15, 1995

Run: 8051-D

Analyzed: August 16, 1995

			REPORTING	BLANK	BLANK SPIKE
		DIESEL	LIMIT	RESULT	RESULT
Spl #	Sample ID	(ug/L)	(ug/L)	(ug/L)	(%)
99048	MW-1	N.D.	50	N.D.	90
99049	MW-2	N.D.	50	N.D.	90
99050	MW-3	N.D.	50	N.D.	90

Dennis Mayugba for

Chemist

Ali Kharrazi Organic Manager

Al. Khi

Environmental Services (SD8)

August 21, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: Blank spike and duplicate report for 3 samples for Diesel analysis.

Matrix: WATER

Extracted: August 15, 1995

Lab Run#: 8051

Analyzed: August 16, 1995

Method: EPA 3510/8015M

		**	Dup				
	Spike	Spike	Spike	Control	8	RPD	
Analyte	Amt			Limits		Lim	
DIESEL	200 ug/L	90.0	93.0	60-130	3_3_	25	

Reagent spike sample#: 99294 Duplicate spike sample#: 99295

Environmental Services (SDB)

August 21, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: Surrogate report for 3 samples for Diesel analysis.

Matrix: WATER Extracted: August 15, 1995
Lab Run#: 8051 Analyzed: August 16, 1995

Method: EPA 3510/8015M

"	47.1 . 4 . 7	_	%
<u>Sample#</u>	Client Sample ID	Surrogate	Recovered
99048	MW-1	O-TERPHENYL	83
99049	MW-2	O-TERPHENYL	95
99050	MW-3	O-TERPHENYL	91
			%
Sample#	OC Sample Type	Surrogate	Recovered
99293	Method blank (MDB)	O-TERPHENYL	94
99294	Blank Spike (BSP)	O-TERPHENYL	66
99295	· · · · · · · · · · · · · · · · · · ·	(BSD) O-TERPHENYL	83

OCSURE JILL 21-AUG-95 10:47:33

Environmental Services (SDB)

August 17, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: 6 samples for Gasoline and BTEX analysis.

Method: EPA 5030/8015M/602/8020

Sampled: August 11, 1995

Matrix: WATER

Analyzed: August 16, 1995 Run: 8057-2

a - 1 H	gamela ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
Spl #	Sample ID		N.D.	N.D.	N.D.	N.D.
99048	MW - 1.	N.D.		N.D.	N.D.	N.D.
99049	MW-2	N.D.	N.D.		110	23
99050	MW-3	0.71	11_	3.2		
99053	D-1)	N.D.	N.D.	N.D.	N.D.	N.D.
99054	D-2 & Purge water	0.13	2.5	N.D.	25	3.3
99055	D-3 drums	NT D	N.D.	N.D.	N.D.	N.D.
33055	For above sample:	Compounds in	the Gasoline	e range do not	match any of	our
	FOI above sample.	netroleum hv	drocarbon sta	andard profile	s. Compared	to our
		Gasoline star	ndard, amount	tis 0.062 mg	/L.	

Reporting Limits	0.05	0.5	0.5	0.5	0.5
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Plank Chike Regult (%)	98	104	101	104	97

Jack Kelly Chemist

Ali Kharrazi Organic Manager August 23, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: Matrix spike report for Gasoline and BTEX analysis.

Matrix: WATER

Lab Run#: 8057 Instrument: GC1-2

Method: EPA 5030/8015M/602/8020

Analyzed: August 16, 1995

Analyte	Spiked Sample Result	Spike Amt	% Spike Rec_	Dup Spike Rec	Control Limits	RPD	% RPD <u>Lim</u>
GASOLINE BENZENE TOLUENE ETHYL BENZENE XYLENES	N.D. mg/L N.D. ug/L N.D. ug/L N.D. ug/L N.D. ug/L	0.50 mg/L 20 ug/L 20 ug/L 20 ug/L 60 ug/L	98 102 102 106 99.0	105 103 106 100	80-118 80-127 80-122 81-119 83-125	N/A 2.9 1.0 0.0 1.0	N/A 20 20 20 20

Sample Spiked: 99048
Submission #: 9508181
Client Sample ID: MW-1

Environmental Services (SDB)

August 17, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

2868.03 Project:

Received: August 11, 1995

Surrogate report for 6 samples for Gasoline and BTEX analysis.

Matrix: WATER

Analyzed: August 16, 1995 Lab Run#: 8057

Method: EPA 5030/8015M/602/8020

Method:	EPA 5030/8015M/602/8020		%	
Sample#	Client Sample ID	Surrogate	Recovered	
99048 99049 99050 99053 99054 99055	MW-1 MW-2 MW-3 D-1 D-2 D-3	TRIFLUOROTOLUENE TRIFLUOROTOLUENE TRIFLUOROTOLUENE TRIFLUOROTOLUENE TRIFLUOROTOLUENE TRIFLUOROTOLUENE TRIFLUOROTOLUENE	81 92 99 94 94 93	
Sample#	OC Sample Type	Surrogate	Recovered	
99344 99345 99348 99347	Method blank (MDB) Blank Spike (BSP) Matrix spike (MS) Matrix spike duplicate	TRIFLUOROTOLUENE TRIFLUOROTOLUENE TRIFLUOROTOLUENE (MSD) TRIFLUOROTOLUENE	93 96 91 94	SPK1 SPI2

Environmental Services (SDB)

August 17, 1995,

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: 1 sample for BTEX analysis.

Method: EPA 8020

Sampled: August 11, 1995

Matrix: WATER

Run: 8057-2

Analyzed: August 16, 1995

G-1 # Gamalo TD	Benzene (uq/L)	Toluene	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
Spl # Sample ID 99051 MW-4 (FIED BLANK)	N.D.	0.7	N.D.	N.D.
Reporting Limits Blank Result Blank Spike Result (%)	0.5 N.D. 104	0.5 N.D. 101	0.5 N.D. 104	0.5 N.D. 97

Jack Kelly Chemist Ali Kharrazi Organic Manager

Environmental Services (SDB)

August 17, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: Matrix spike report for BTEX analysis.

Matrix: WATER

Lab Run#: 8057

Instrument: GC1-2

Analyzed: August 16, 1995

Method: EPA 8020

	Spiked Sample	Spike	% Spike	Dup Spike	Control	ક	% RPD
Analyte	Result	Amt	Rec	Rec	<u>Limits</u>	RPD	_Lim_
BENZENE	N.D. ug/L	5.0 ug/L	102	105	80-127	2.9	20
TOLUENE	N.D. ug/L	5.0 ug/L	102	103	80-122	1.0	20
ETHYL BENZENE	N.D. ug/L	5.0 ug/L	106	106	81-119	0.0	20
XYLENES	N.D. ug/L	15 ug/L	99.0	100	83-125	1.0	20

Sample Spiked: 99048
Submission #: 9508181
Client Sample ID: MW-1

1220 Quarry Lane • Pleasanton, California 94566-4756 (510) 484-1919 • Facsimile (510) 484-1096 Federal ID #68-0140157

Environmental Services (SDB)

August 17, 1995

Submission #: 9508181

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868.03

Received: August 11, 1995

re: Surrogate report for 1 sample for BTEX analysis.

Matrix: WATER Lab Run#: 8057 Method: EPA 8020

Analyzed: August 16, 1995

<u>Sample#</u> 99051	Client Sample ID MW-4	Surrogate TRIFLUOROTOLUENE	% Recovered 91	
<u>Sample#</u> 99344	OC Sample Type Method blank (MDB)	Surrogate TRIFLUOROTOLUENE	% Recovered 93	
99345 99348 99347	Blank Spike (BSP) Matrix spike (MS) Matrix spike duplicate	TRIFLUOROTOLUENE TRIFLUOROTOLUENE	96 91 94	5PK1 5PK2

CHROMALAB, INC. SAMPLE RECEIPT CHECKLIST

CONTRIN	Date/Time Received 8/11	1579
client Name OFFDN HIRLY	Received by B Monor	te / Time
Project 2868.03	~	<u> </u>
Reference/Subm #23352/4508/8/	Carrier name	
Checklist completed 8/4/95	Logged in by Initial	s / Date
Signature / Date	Matrix	
Shipping container in good condition?		YesNo
Custody seals present on shipping contain	ner? Intact Broken	YesNo
Custody seals on sample bottles?		
Chain of custody present?	•	YesNo
Chain of custody signed when relinquished	i and received?	Yes No
Chain of custody agrees with sample label	Ls?	Yes No
Samples in proper container/bottle?		Yea No No
Samples intact?	•	Yes_ No_
· Sufficient sample volume for indicated to	est?	YesNo
VOA vials have zero headspace?	NA	Yes No
Trip Blank received? .	NA	YesNo_L
All samples received within holding time?	•	Yes No
Container temparature?	•	
pH upon receiptpH adjusted	Check performed by:	NA
Any NO response must be detailed in the applicable, they should be marked NA.	comments section below.	If items are no
Client contacted?	Date contacted?	
Person contacted?	Contacted by?	
Regarding?		
Comments:		
Corrective Action:		
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Samplers (Signatures):		EPA Method 8020 EPA Method 8240	3270	g															water (W)		containers	Additional comments
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Company -		Comp	any:				·-·				Comp	any.						_				. 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400