CGS Sampling Specialists

Delmas Street, San Jose, CA 95125
(408) 286-7009

April 21, 1997
Project No.012372

Mr. Jerry Breeden
Diversified Loan Services
257 E. Campbell Ave. #3
Campbell, CA 95008

First Quarterly Monitoring Well Sampling Report 1997
2896 Castro Valley Blvd., Castro Valley, California

Dear Mr Breeden,

This report describes the sampling of three groundwater monitoring wells designated as W-MW, E-MW, and S-MW, performed at the above referenced site on April 9, 1997. Results of the laboratory Analyses of the samples are included.

INTRODUCTION

This report presents groundwater monitoring data for 2896 Castro Valley Blvd.. CGS Sampling Specialists (CGS) was retained to perform this sampling of the site monitoring wells, which took place on April 9, 1997.

FIELD SAMPLING AND LABORATORY METHODS

The following table briefly describes the current well status:

Table 1. Monitoring Well Sampling Data

Well No.	*Depth (ft.)*	*Depth to Water (ft.)*	*Casing Elev (ft.)*	*Damage*	*Floating Product*
W-MW	19.33	10.55	NA	None	None
E-MW	19.25	10.62	NA	None	None
S-MW	19.40	10.28	NA	None	None

ft. = Feet

The sampler proceeded to purge four well volumes (a calculation was done for each well following depth to water sounding measurements) of groundwater from the well prior to sampling using a new disposable bailer. The well was then allowed to re-charge. Between each well volume, conductivity, pH, and water temperature readings were recorded. Once stabilization of the readings were noted the sample was collected from the well. Purge water was stored on-site in barrels. The Groundwater Sampling Information Sheets containing data on temperature, conductivity, pH, depth to water, and well volumes purged can be found in **Appendix A**. Copies of the Chain-of-Custody and the Laboratory Analysis Report can be found in **Appendix B.**

A new disposable bailer was used to obtain each well groundwater sample. The groundwater samples were placed in two 40ml voa clear glass bottles leaving no headspace and two 1 Liter Amber Glass Jars. The containers were immediately labeled and placed on ice for transport to Entech Analytical Laboratories, Inc. in Sunnyvale, California (a State Certified Testing Lab) under Chain-of-Custody documentation.

Entech Analytical Labs tested the groundwater samples from S-MW, W-MW, and E-MW for Total Petroleum Hydrocarbons as Diesel (TPHd), Total Petroleum Hydrocarbons as Gasoline (TPHg), and for Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX).

Groundwater Gradient

Groundwater gradient could not be calculated due to the lack of available survey data. Based on the topography in the vicinity of the site, groundwater underlying the site is estimated to flow in a southerly direction.

ANALYTICAL LABORATORY RESULTS

The results of the analyses of the groundwater samples revealed the following **(Table 2)**;

Table 2. Groundwater Sample Analytical Data

Analysis	*W-MW*	*E-MW*	*S-MW*
Diesel	ND	ND	ND
Gasoline	ND	ND	ND
Benzene	ND	ND	ND
Toluene	ND	ND	ND
Ethyl Benzene	ND	ND	ND
Total Xylenes	ND	ND	ND

ND - None detected; (see laboratory report for reporting limits)
NA - Not Analyzed
PPB - ug/l - micrograms per liter (Parts Per Billion)

A copy of the laboratory analysis report is presented in **Appendix B.**

LIMITATIONS

This quarterly sampling and report for this site was performed using recommended current guidance documents of the Regional Water Quality Control Board. The statement, conclusions, and recommendations are based on present site conditions. CGS is not responsible for laboratory errors and no warranty or guarantee is implied thereon.

If you have any questions concerning this report, please feel free to call 408-559-1248.

Sincerely,

Christopher G. Solomon
Principal

Lawrence D. Pavlak C.E.G. No. 1187

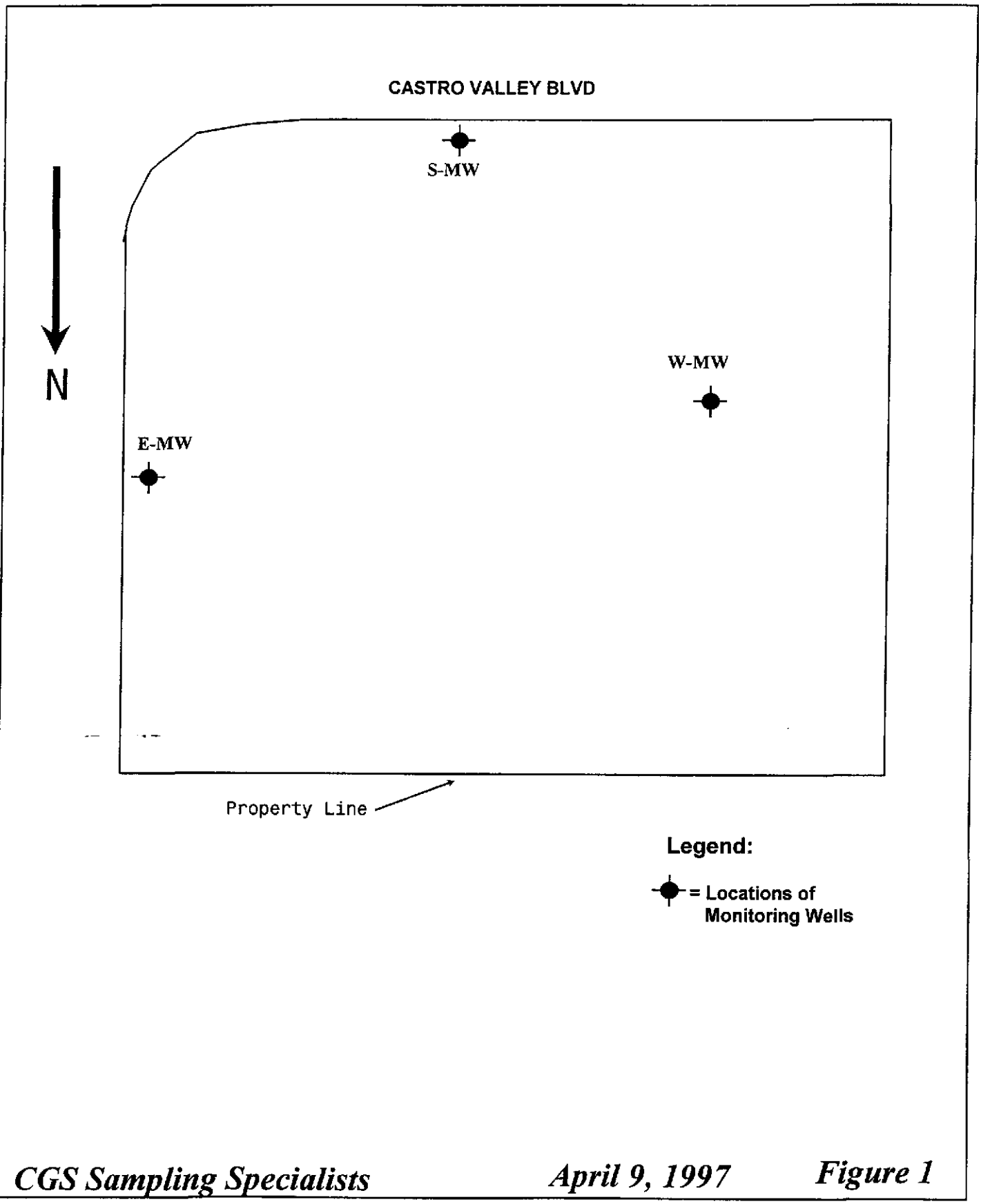
REGISTERED GEOLOGIST
LAWRENCE D. PAVLAK
№ 1187
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Attachments:

Figure 1. Site Vicinity Map with Well Locations

Appendices: A. Groundwater Sampling Information Sheets
B. Laboratory Analytical Report and Chain-of-Custody Form

2896 Castro Valley Blvd.
Quarterly Groundwater Monitoring



CGS Sampling Specialists *April 9, 1997* *Figure 1*

APPENDIX A

Groundwater Sampling Information Sheets

CGS Sampling Specialists
Environmental Services
1172 Delmas Ave.
San Jose, CA 95125

Water-Quality Sampling Information

Date 4-9-97
Project No.
Sample No. S-MW

Project Name Castro
Address 2896 Castro Valley Blvd.
Samplers Name Chris Solomon
Sampling Method Disp Bailer
Analyses Request Tph-D
Tph-G BTEX
Number/Types of
Sample Bottels 2-40ml, 2-1L
Method of Shipment Packed on Ice

Well Location Map

Well Number S-MW
Well Diameter 2"
Depth to Water (ft.) 10.28'
Total Well Depth (ft.) 19.40'
Height of Water (ft) 9.12'
Water Volume in Well (gal) 1.45 gal

2 - inch casing = 0.16 gal/ft
4 - inch casing = 0.65 gal/ft
5 - inch casing = 1.02 gal/ft
6 - inch casing = 1.47 gal/ft

TIME	DEPTH TO WATER	VOLUME WITH-DRAWN	TEMP. (F)	pH (S.U)	COND. (mhos/cm)	PURGE VOLUMES		REMARKS
8:20	10.28'	0	68.3	8.24	9.11	X	0	no odor
8:30	—	1.5	67.1	7.94	10.21	X	1	
8:35	—	3.0	66.4	8.11	10.34	X	2	
8:41	—	4.5	66.5	8.05	10.11	X	3	
8:50		6.0	66.3	8.98	10.11	X	4	clear

CGS Sampling Specialists
Environmental Services
1172 Delmas Ave.
San Jose, CA 95125

Water-Quality Sampling Information

Date 4-9-97
Project No.
Sample No. W-MW

Project Name Castro
Address 2896 Castro Valley Blvd
Samplers Name Chris Salamack
Sampling Method Disp Bailer
Analyses Request Tph-D
Tph-G BTEX
Number/Types of
Sample Bottels 2-40ml, 2-1L

Method of Shipment

Well Location Map

Well Number W-MW
Well Diameter 2"
Depth to Water (ft.) 10.55'
Total Well Depth (ft.) 19.33
Height of Water (ft) 8.78'
Water Volume in Well (gal) 1.40 gal

2 - inch casing = 0.16 gal/ft
4 - inch casing = 0.65 gal/ft
5 - inch casing = 1.02 gal/ft
6 - inch casing = 1.47 gal/ft

TIME	DEPTH TO WATER	VOLUME WITH-DRAWN	TEMP (F)	pH (S.U)	COND. (mhos/cm)	PURGE VOLUMES		REMARKS
9:04	10.55	0	69.1	8.42	1041	X	0	no odor
9:10	—	1.5	64.2	8.11	1034	X	1	
9:21	—	3.0	63.1	8.34	1084	X	2	
9:27	—	4.5	62.1	8.31	1012	X	3	
9:32		6.0	60.3	8.12	1011	X	4	Stabel

CGS Sampling Specialists
Environmental Services
1172 Delmas Ave.
San Jose, CA 95125

Water-Quality Sampling Information

Date 4-9-97
Project No.
Sample No. E-MW

Project Name Centex
Address 2896 Centex Valley Blvd
Samplers Name [illegible]
Sampling Method DispBailer
Analyses Request Tph-D
Tph-G BTEX
Number/Types of
Sample Bottels 2-40ml 2-1L

Method of Shipment Packed on Ice

Well Location Map

Well Number E-MW
Well Diameter 2"
Depth to Water (ft.) 10.62'
Total Well Depth (ft.) 19.25'
Height of Water (ft) 8.63'
Water Volume in Well (gal) 1.38 gal

2 - inch casing = 0.16 gal/ft
4 - inch casing = 0.65 gal/ft
5 - inch casing = 1.02 gal/ft
6 - inch casing = 1.47 gal/ft

TIME	DEPTH TO WATER	VOLUME WITH-DRAWN	TEMP. (F)	pH (S.U)	COND. (mhos/cm)	PURGE VOLUMES		REMARKS
9:50	10.62	Ø	69.1	6.34	9.11	x	Ø	no odor
9:58	—	1.5	68.2	6.12	9.34	x	1	
10:04	—	3.0	67.1	6.48	9.12	x	2	
10:09	—	4.5	67.2	6.45	9.11	x	3	
10:19		6.0	67.3	6.31	9.31	x	4	strong odor

APPENDIX B

LABORATORY ANALYTICAL REPORT AND

CHAIN-OF-CUSTODY FORM

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Client: CGS Sampling
Address: 1172 Delmas Ave.

Contact: Chris Soloman
Telephone #: 286-7009
Date Received:
Turn Around: Standard

Project ID: Castro Samp.
Purchase Order #: 012372

Sampler/Company:	Telephone #:
CGS Sampling	286-7009

Special Instructions/Comments

LAB USE ONLY

Samples arrived chilled and intact:
Yes No
Notes:

Sample Information								Requested Analysis							
Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	TPH-G w/BTEX	TPH-D						
D6439	W-MW		water	4-8-97	9:00		2-40 ml voas 2-1L Ambers	X	X						
D6440	E-MW		↓	↓	9:28		↓	X	X						
D6441	S-MW		↓	↓	9:54		↓	X	X						

Relinq. By:	Received By:	Date 4-9-97	Time 5:10
Relinq. By:	Received By:	Date	Time
Relinq/ By:	Received By:	Date	Time

Entech Analytical Labs, Inc.

CA ELAP# 1369

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Attn: Chris Solomon
CGS Sampling Specialists
1172 Delmas Street
San Jose, CA 95125

Date:	4/15/97
Date Received:	4/9/97
Date Analyzed:	4/10-4/13/97
Project:	Castro Samp.
P.O. #:	012372
Sampled By:	Client

Certified Analytical Report

Water Sample Analysis:

Test	*W-MW*	*E-MW*	*S-MW*	*Units*	*PQL*	*EPA Method #*
Sample Matrix	Water	Water	Water			
Sample Date	4/8/97	4/8/97	4/8/97			
Sample Time	9:00	9:28	9:54			
Lab #	D6439	D6440	D6441			
DF-Diesel	1	1	1			
TPH-Diesel	**ND**	**ND**	**ND**	µg/liter	50.0 µg/l	8015M
DF-Gas/BTEX	1	1	1			
TPH-Gas	**ND**	**ND**	**ND**	µg/liter	50.0 µg/l	8015M
Benzene	**ND**	**ND**	**ND**	µg/liter	0.5 µg/l	8020
Toluene	**ND**	**ND**	**ND**	µg/liter	0.5 µg/l	8020
Ethyl Benzene	**ND**	**ND**	**ND**	µg/liter	0.5 µg/l	8020
Xylenes	**ND**	**ND**	**ND**	µg/liter	0.5 µg/l	8020

1. DLR=DF x PQL
2. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #2224)

Michael N. Golden, Lab Director

DF=Dilution Factor
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit
ND=None Detected at or above DLR

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: DW970403
Matrix: Water
Units: µg/L

Date analyzed: 04/09/97
Date extracted: 04/09/97
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/L	SA µg/L	SR µg/L	SP µg/L	**SP %R**	SPD µg/L	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
Diesel	8015M	<50.0	950	0.0	952	**100**	952	**100**	0	25	50-150

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R) Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R) Spike Duplicate % Recovery
- NC: Not Calculated

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG5970412
Matrix: Water
Units: µg/L

Date Analyzed: 04/12/97
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/L	SA µg/L	SR µg/L	SP µg/L	**SP % R**	SPD µg/L	**SPD %R**	RPD	QC LIMITS (ADVISORY) RPD	QC LIMITS (ADVISORY) %R
Benzene	8020	<0.5	25	0.0	25	**100**	25	**100**	0.0	25	50-150
Toluene	8020	<0.5	25	0.0	25	**100**	24	**96**	4.1	25	50-150
Ethyl Benzene	8020	<0.5	25	0.0	25	**100**	25	**100**	0.0	25	50-150
Xylenes	8020	<0.5	75	0.0	75	**100**	75	**100**	0.0	25	50-150
Gasoline	8015	<50.0	625	0	654	**105**	636	**102**	2.8	25	50-150

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- NC: Not Calculated