

C-REM ENGINEERS
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QMR

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QUARTERLY REPORT

GROUNDWATER MONITORING AND SAMPLING

at
2896 Castro Valley Boulevard
Castro, Ca.

Submitted by

C-REM ENGINEERS
1820 Gateway Drive, Suite 100
San Mateo, Ca, 94404
April 30, 1992

C-REM ENGINEERS

ENGINEERING • SURVEYING • PLANNING

April 30, 1992
Ref No: 470
Job No: 92020.01

Mr. John H. Drake
Project Coordinator
Lakeshore Financial
21060 Redwood Road, Suite 250
Castro Valley, CA 94546

SUBJECT: WELL MONITORING 2896 CASTRO VALLEY BOULEVARD

Dear John:

Pursuant to our contract, we have had ground water samples taken in accordance with the **January 10, 1992** letter from the Alameda County Health Care Services Agency for the 2896 Castro Valley Boulevard site. Samples were taken by Sequoia Analytical in Redwood City. A strong smell of gasoline was detected by Sequoia Analytical at the time of obtaining the samples. The results of the tests are summarized below.

1. Samples taken from MW-1 and MW-3 shows that the contamination levels for arsenic and lead are below the maximum contaminant level as specified in Title 22 of the California Code of Regulations. Chromium and selenium were not detected above the detection limits. The amount of lead found in MW-1 at this time is less than that found for MW-1 as shown in the "Final Report of Methods and Findings for a Preliminary Site Investigation" dated February 22, 1991 by Aqua Science Engineers.
2. Samples taken from MW-1 and MW-3 show no recoverable oil and grease detected above the detection limits which is the same as that shown in the above referenced Final Report by Aqua Science Engineers for MW-1.
3. Sample taken from MW-2 shows no detectable materials above the detection limits for TPH-G and BTEX tests that were shown in the above report by Aqua Science Engineers.
4. The sample taken from MW-3 shows no detectable benzene or toluene above the detection limits that were shown in the above report by Aqua Science Engineers. The sample taken for MW-3 shows detectable amounts of total petroleum hydrocarbons as gasoline (TPH-G), ethylbenzene, and xylenes. The detectable levels for ethylbenzene (45ppb) and xylenes (51) are below the maximum contaminant level as listed in Title 22 (680ppb & 1750ppb, respectively). Total petroleum hydrocarbons were not listed in the Title 22 regulations for water quality monitoring.
5. The sample taken from MW-1 shows detectable amounts for all materials listed under the TPH-G and BTEX tests. The detectable levels for ethylbenzene (7.1ppb) and xylenes (1.5ppb) are below the maximum contaminant level as listed in Title 22. The detectable level for benzene (1.5ppb) is slightly above the maximum contaminant level as listed in Title 22 (1.0ppb). Total petroleum hydrocarbons were not listed in the Title 22 regulations for water quality monitoring.

From the results of these tests it would appear that there has been some change in the water contaminants tested. These changes appear to be minor and no additional investigative work appears to be necessary.

April 30, 1992
Page 2

Also, pursuant to our contract, we have recorded the ground water level at all three monitoring wells. The results of these recordings are shown on the accompanying table.

for C-REM ENGINEERS INC.



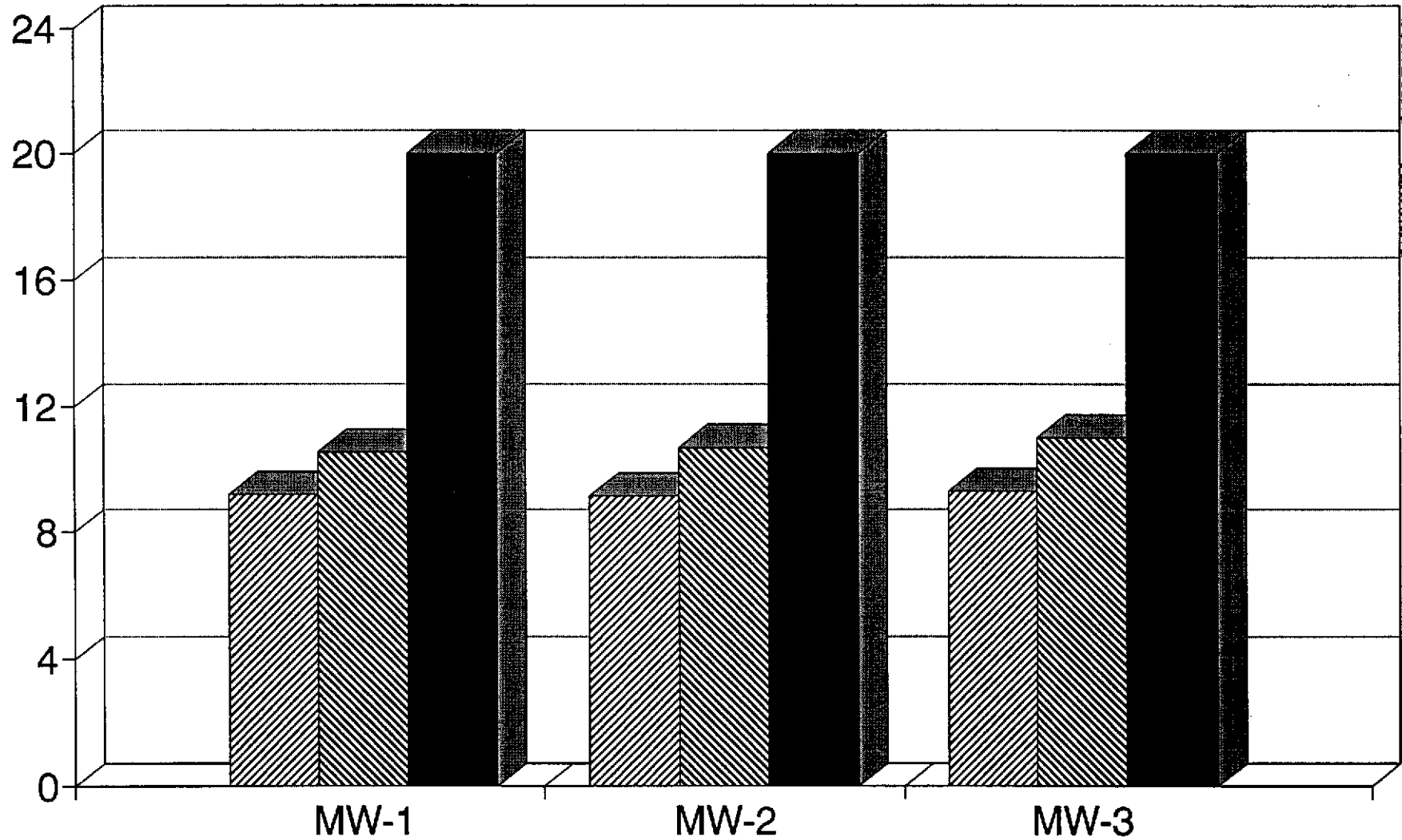
Mark E. Woods, P.E.
Project Engineer

Enclosures

cc: Scott O. Seery, Alameda County Health Care Services Agency
Cullen Wilder, C-REM ENGINEERS, INC.

DEPTH TO GROUNDWATER IN FEET 2896 CASTRO VALLEY BLVD.

C-REM ENGINEERS
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3/30/92
 4/29/92
 TOTAL DEPTH OF WELL

1820 GATEWAY DRIVE • SUITE 100 • SAN MATEO • CA 94404 • FAX (415) 571-1029 • PHONE (415) 571-6400
 A Member of **KLH** Group



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Sample Descript: Water
Analysis for: Water Table Level
First Sample #: 203-5196

Sampled: Mar 30, 1992
Time: 1:30 pm

Reported: Apr 30, 1992

LABORATORY ANALYSIS FOR: Water Table Level

Sample Number	Sample Description	Sample Result feet
203-5196	MW-1	9.2'
203-5197	MW-2	9.15'
203-5198	MW-3	9.3'

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Sample Descript: Water
Analysis for: Water Table Level
First Sample #: 204-5382

Sampled: Apr 29, 1992
Time: 3:00 pm

Reported: Apr 30, 1992

LABORATORY ANALYSIS FOR: Water Table Level

Sample Number	Sample Description	Sample Result feet
204-5382	MW-1	10.55'
204-5383	MW-2	10.7'
204-5384	MW-3	11.0'

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Nokowhat D. Herrera
Project Manager

2045382.CCC <1>



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APR 16 1992

RECEIVED
M 505

C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Sample Descript: Water, MW-1
Analysis Method: EPA 8270 ✓
Lab Number: 203-5196

Sampled: Mar 30, 1992
Received: Mar 30, 1992
Extracted: Apr 1, 1992
Analyzed: Apr 8, 1992
Reported: Apr 14, 1992

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	10	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.



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680 Chesapeake Drive • Redwood City, CA 94063
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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valle
Sample Descript: Water, MW-1
Analysis Method: EPA 8270
Lab Number: 203-5196

Sampled: Mar 30, 1992
Received: Mar 30, 1992
Extracted: Apr 1, 1992
Analyzed: Apr 8, 1992
Reported: Apr 14, 1992

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
Isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	N.D.
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	3.9
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
Project Manager



SEQUOIA ANALYTICAL

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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Sample Descript: Water, MW-2
Analysis Method: EPA 8270
Lab Number: 203-5198

Sampled: Mar 30, 1992
Received: Mar 30, 1992
Extracted: Apr 1, 1992
Analyzed: Apr 8, 1992
Reported: Apr 14, 1992

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	10	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.



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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valle
Sample Descript: Water, MW-2
Analysis Method: EPA 8270
Lab Number: 203-5198

Sampled: Mar 30, 1992
Received: Mar 30, 1992
Extracted: Apr 1, 1992
Analyzed: Apr 8, 1992
Reported: Apr 14, 1992

MW-2
3?

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
Isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	8.7
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	44
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

C-Rem Engineers 1820 Gateway Dr., Ste 100 San Mateo, CA 94404 Attention: Mark Woods	Client Project ID: 2896 Castro Valley Blvd., Castro Valley Matrix Descript: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 203-5196	Sampled: Mar 30, 1992 Received: Mar 30, 1992 Analyzed: Mar 31, 1992 Reported: Apr 14, 1992
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TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl Benzene	Xylenes
		Hydrocarbons $\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
203-5196	MW-1	310	1.5	0.76	7.1	1.5
203-5197	MW-2	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Nokowhat D. Herrera
Project Manager

2035196.CCC <5>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

C-Rem Engineers	Client Project ID: 2896 Castro Valley Blvd., Castro Valley	Sampled: Mar 30, 1992
1820 Gateway Dr., Ste 100	Matrix Descript: Water	Received: Mar 30, 1992
San Mateo, CA 94404	Analysis Method: EPA 5030/8015/8020	Analyzed: Mar 31, 1992
Attention: Mark Woods	First Sample #: 203-5198	Reported: Apr 14, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.			Ethyl	
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
203-5198	MWS	1,000	N.D.	N.D.	45	51

Detection Limits:

300

3.0

3.0

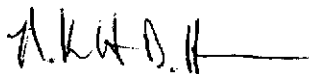
3.0

3.0

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Nokowhat D. Herrera
Project Manager



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680 Chesapeake Drive • Redwood City, CA 94063
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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Matrix Descript: Water
Analysis Method: EPA 413.1 (Gravimetric)
First Sample #: 203-5196

Sampled: Mar 30, 1992
Received: Mar 30, 1992
Extracted: Mar 31, 1992
Analyzed: Mar 31, 1992
Reported: Apr 14, 1992

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/L (ppm)
203-5196	MW-1	N.D.
203-5198	MW-3	N.D.

Detection Limits:

5.0

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Nokowhat D. Herrera
Project Manager

2035196.CCC <7>



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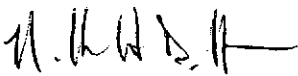
C-Rem Engineers 1820 Gateway Dr., Ste 100 San Mateo, CA 94404 Attention: Mark Woods	Client Project ID: 2896 Castro Valley Sample Description: [REDACTED] Lab Number: 203-5196	Castro Valley Sampled: Mar 30, 1992 Received: Mar 30, 1992 Analyzed: 4/1-9/92 Reported: Apr 14, 1992
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LABORATORY ANALYSIS: DISSOLVED METALS

Analyte	Detection Limit mg/L	Sample Results mg/L
Arsenic.....	0.0050	0.014
Chromium.....	0.010	N.D.
Lead.....	0.0050	0.0099
Selenium.....	0.0050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Nokowhat D. Herrera
Project Manager



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C-Rem Engineers 1820 Gateway Dr., Ste 100 San Mateo, CA 94404 Attention: Mark Woods	Client Project ID: 2896 Castro Valley Blvd., Castro Valley Sample Descript: Water: MMS Lab Number: 203-5198	Sampled: Mar 30, 1992 Received: Mar 30, 1992 Analyzed: 4/1-9/92 Reported: Apr 14, 1992
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LABORATORY ANALYSIS: DISSOLVED METALS

Analyte	Detection Limit mg/L	Sample Results mg/L
Arsenic.....	0.0050	0.016 ✓
Chromium.....	0.010	N.D.
Lead.....	0.0050	0.015
Selenium.....	0.0050	N.D.

MCL 50ppb 16ppb AS
↓ 50ppb 15ppb Pb

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
Project Manager



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680 Chesapeake Drive • Redwood City, CA 94063
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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Method: EPA 8270
Analyst(s): N.Inejikian
QC Sample #: CBLK040192

Q.C. Sample Dates
Extracted: Apr 1, 1992
Analyzed: Apr 8, 1992
Reported: Apr 14, 1992

QUALITY CONTROL DATA REPORT

Analyte	Sample Conc.	Spike Conc. Added	Conc. Matrix Spike	Matrix Spike % Recovery	Conc. Matrix Spike Duplicate	Matrix Spike Duplicate % Recovery	Relative % Difference
Phenol	N.D.	100	83	83	75	75	10
2-Chlorophenol	N.D.	100	102	102	108	108	5.7
1,4-Dichloro-benzene	N.D.	50	33	66	34	68	3.0
N-Nitroso-Di-N-propylamine	N.D.	50	36	72	40	80	10
1,2,4-Trichloro-benzene	N.D.	50	36	72	36	72	0.0
4-Chloro-3-Methylphenol	N.D.	100	70	70	67	67	4.4
Acenaphthene	N.D.	50	25	50	20	40	22
4-Nitrophenol	N.D.	100	101	101	99	99	2.0
2,4-Dinitro-toluene	N.D.	50	51	102	51	102	0.0
Pentachloro-phenol	N.D.	100	113	113	112	112	0.90
Pyrene	N.D.	50	51	102	49	98	4.0

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley

QC Sample Group: 2035196 - 97

Reported: Apr 14, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
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Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.Villar	J.Villar	J.Villar	J.Villar
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Mar 31, 1992	Mar 31, 1992	Mar 31, 1992	Mar 31, 1992
QC Sample #:	GBLK033192	GBLK033192	GBLK033192	GBLK033192

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	10	10	30
Matrix Spike % Recovery:	100	100	100	100
Conc. Matrix Spike Dup.:	9.7	9.6	9.7	29
Matrix Spike Duplicate % Recovery:	97	96	97	97
Relative % Difference:	3.0	4.1	3.0	3.4

SEQUOIA ANALYTICAL

N. K. Herrera
Nokowhat D. Herrera
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley

QC Sample Group: 203-5198

Reported: Apr 14, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M.Nipp	M.Nipp	M.Nipp	M.Nipp
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Mar 31, 1992	Mar 31, 1992	Mar 31, 1992	Mar 31, 1992
QC Sample #:	GBLK033192	GBLK033192	GBLK033192	GBLK033192

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.6	9.5	9.6	29
Matrix Spike % Recovery:	96	95	96	97
Conc. Matrix Spike Dup.:	9.8	9.9	9.8	30
Matrix Spike Duplicate % Recovery:	98	99	98	100
Relative % Difference:	2.1	4.1	2.1	3.4

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

2035196.CCC <12>



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Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley

QC Sample Group: 2035196, 98

Reported: Apr 14, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Oil & Grease	Chromium	Lead	Arsenic	Selenium
Method:	SM5520B	EPA 200.7	EPA 239.2	EPA 206.2	EPA 270.2
Analyst:	A.Do	M.Mistry	S.Chin	F.Contreras	F.Contreras
Reporting Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Mar 31, 1992	Apr 1, 1992	Apr 1, 1992	Apr 9, 1992	Apr 9, 1992
QC Sample #:	BLK033192	203-5248	203-5248	203-4789	203-4789
Sample Conc.:	N.D.	N.D.	N.D.	0.011	0.014
Spike Conc. Added:	60	1.0	1.0	0.10	0.10
Conc. Matrix Spike:	64	0.97	0.97	0.11	0.11
Matrix Spike % Recovery:	110	97	97	99	96
Conc. Matrix Spike Dup.:	64	1.0	0.97	0.12	0.10
Matrix Spike Duplicate % Recovery:	110	100	97	109	86
Relative % Difference:	0.0	3.0	0.0	8.7	9.5

SEQUOIA ANALYTICAL


Nokowhat D. Herrera
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



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COPY

CHAIN OF CUSTODY REPORT

CLIENT: C-REM				REPORT TO:				TURNAROUND TIME:			
ADDRESS:				BILLING TO:				8 HR.			
PHONE:								24 HR.		48 HR.	
PROJECT NAME/SITE:				POW/BILLING REFERENCE:				5 DAY		10 DAY	
SAMPLER: KEVIN FOLETT & PAT WILK				DATE: 3-30-92				ANALYSIS REQUESTED: *Pb, Cr, Se, As			
SAMPLE IDN/ STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TRACER BTEN	OIL CIRCE	0228	DISSOLVED METALS	REMARKS		SAMPLE NUMBER
#1 MW-1	H ₂ O	5	2 VIALS 1 LP 1 LAMP 1 OIL	1330 / 3-30-92	X	X	X	X			2035196
#2 MW-2	H ₂ O	2	VIALS	1300 / 3-30-92	X						97
#3 MW-3	H ₂ O	5	2 VIALS 1 LP 1 LAMP 1 OIL	1310 / 3-30-92	X	X	X	X			98
RELINQUISHED BY:				DATE	TIME:	RECEIVED BY: Pat Wilk				TRAVEL TIME:	
RELINQUISHED BY: Pat Wilk				DATE	TIME:	RECEIVED BY:				ON SITE TIME: 1.5 hrs	
RELINQUISHED BY:				DATE	TIME:	RECEIVED IN LAB BY: mm 3/30/92				OTHER:	
										WERE SAMPLES: YES NO	
										PRESERVED ? IN GOOD CONDITION?	



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C-Rem Engineers
1820 Gateway Dr., Ste 100
San Mateo, CA 94404
Attention: Mark Woods

Client Project ID: 2896 Castro Valley Blvd., Castro Valley
Sample Descript: Water, MW-3
Analysis Method: EPA 8270
Lab Number: 203-5198

Sampled: Mar 30, 1992
Received: Mar 30, 1992
Extracted: Apr 1, 1992
Analyzed: Apr 8, 1992
Amended: Apr 30, 1992

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	10	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.



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Client Project ID: 2896 Castro Valley Blvd., Castro Valley
 Sample Descript: Water, MW-3
 Analysis Method: EPA 8270
 Lab Number: 203-5198

Sampled: Mar 30, 1992
 Received: Mar 30, 1992
 Extracted: Apr 1, 1992
 Analyzed: Apr 8, 1992
 Reported: Apr 30, 1992

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
Isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	N.D.
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	N.D.
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Nokowhat D. Herrera
 Project Manager

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

October 16, 1990

ChromaLab File No.: 1090059

AQUA SCIENCE ENGINEERS, INC.

Attn: Greg Gouvea

RE: Three water samples for Gasoline/BTEX analysis

Project Name: CASTRO VALLEY

Date Sampled: Oct. 9, 1990

Date Submitted: Oct. 9, 1990


Date Extracted: Oct. 15-16, 1990


Date Analyzed: Oct. 15-16, 1990

RESULTS:

Sample No.	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKED RECOVERY	91.7%	98.6%	99.1%	103.5%	105.6%
DUP SPIKED REC	91.1%	89.3%	89.7%	90.0%	107.6%
DETECTION LIMIT	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	602	602	602	602

CHROMALAB, INC.


David Duong
Senior Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Analytical Laboratory
Specializing in GC-GC/MS

- Environmental Analysis
- Hazardous Waste (#E694)
- Drinking Water (#955)
- Waste Water
- Consultation

November 9, 1990

ChromaLab File No.: 1190009

AQUA SCIENCE ENGINEERS, INC.

Attn: Greg Gouvea

RE: One water sample for Diesel, Oil & Grease, Cadmium,
Lead, and Zinc analyses

Project Name: CASTRO VALLEY DETAIL SHOP

Date Sampled: Oct. 30, 1990

Date Submitted: Nov. 2, 1990

Date Extracted: Nov. 5-9, 1990

Date Analyzed: Nov. 5-9, 1990

RESULTS:

Sample No.	Oil & Grease (mg/L)	Diesel (µg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	0.07	0.020
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKED REC.	----	111.8%	100.0%	102.5%	103.5%	99.1%
DETECTION LIMIT	1.0	50	0.005	0.05	0.05	0.005
METHOD OF ANALYSIS	5520 C&F	3510/ 8015	7130	7190	7420	7950

ChromaLab, Inc.



David Duong
Senior Chemist



Eric Tam
Laboratory Director