



aqua
resources
inc.

9/25/89

September 21, 1989

FILE

Barnett Range Corporation
Mill Springs Park Apartment Field Office
1799 Railroad Avenue
Livermore, CA 94550

87157.6

Attn: Mr. Larry Malcolm

Subject: Quarterly Report on Chemical Analyses on
Groundwater Samples from Monitoring Well
Mill Springs Park Apartments
(formerly Livermore Superblock)
Livermore, California

Dear Larry:

As we discussed, the results of the chemical analyses performed on groundwater samples obtained on August 1, 1989, showed 5 ppb of benzene. Based on previous results from the sampling done on May 2, 1989, which showed benzene not detectible above 1 ppb (the method detection limit), and previous laboratory analyses during site remediation, we felt this was a laboratory error.

The monitoring well was re-sampled on September 1, 1989. A travel blank (sample #2T on the chain of custody) was submitted to the laboratory, along with the sample from the monitoring well (#1T on the chain of custody) for QA/QC purposes. The chemical analyses were repeated, and the results showed benzene not detectible above the 1 ppb detection.

Therefore, we believe that the benzene detected in the August 1, 1989 sample interval is a laboratory error, and not a constituent in the groundwater.

Copies of the chain of custody and the lab analyses for the August 1 and September 1 sample intervals are enclosed for your files.

Very truly yours,
AQUA RESOURCES INC.

Mark Milani, P.E.
Project Manager

cc: Alameda County Health Agency
Dept. of Environmental Health
Hazardous Materials Division
Attn: Mr. Lowell Miller

Regional Water Quality Control Board
San Francisco Region
Attn: Ms. Lisa McCann



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

DATE RECEIVED: 08/01/89

DATE REPORTED: 08/09/89

PAGE 1 OF 3

LAB NUMBER: 17928

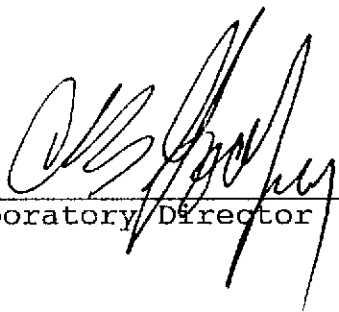
CLIENT: AQUA RESOURCES

REPORT ON: 1 WATER SAMPLE

JOB #: 87157.6

PROJECT NAME: BARNETT RANGE

RESULTS: SEE ATTACHED



Laboratory Director



LABORATORY NUMBER: 17928
CLIENT: AQUA RESOURCES
PROJECT #: 87157.6
PROJECT NAME: BARNETT RANGE

DATE RECEIVED: 08/01/89
DATE ANALYZED: 08/03/89
DATE REPORTED: 08/09/89
PAGE 2 OF 3

Extractable Petroleum Hydrocarbons in Aqueous Solutions
EPA 8015 (Modified)
Extraction Method: EPA 3510

LAB ID	CLIENT ID	GASOLINE (mg/L)	KEROSINE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)
17928	MW-1	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

RPD, %	7
Spike: % Recovery	95



LABORATORY NUMBER: 17928
CLIENT: AQUA RESOURCES
JOB NUMBER: 87157.6
PROJECT NAME: BARNETT RANGE

DATE RECEIVED: 08/01/89
DATE ANALYZED: 08/08/89
DATE REPORTED: 08/09/89
PAGE 3 OF 3

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)
17928	MW-1	5	ND(1)	ND(1)	ND(1)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

%RPD	5
%RECOVERY	95



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DATE RECEIVED: 09/01/89
DATE REPORTED: 09/13/89
PAGE 1 OF 3

LAB NUMBER: 18172

CLIENT: AQUA RESOURCES, INC.

REPORT ON: 2 WATER SAMPLES

JOB #: 87157.6
LOCATION: LIVERMORE

RESULTS: SEE ATTACHED

ME. Priitera

QA/QC Officer

ME. Murphy

Laboratory Director

LABORATORY NUMBER: 18172
 CLIENT: AQUA RESOURCES
 PROJECT #: 87157.6
 LOCATION: LIVERMORE

DATE RECEIVED: 09/01/89
 DATE ANALYZED: 09/07/89
 DATE REPORTED: 09/13/89
 PAGE 2 OF 3

Extractable Petroleum Hydrocarbons in Aqueous Solutions
 EPA 8015 (Modified)
 Extraction Method: EPA 3510

LAB ID	CLIENT ID	GASOLINE (mg/L)	KEROSENE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)
18172-1	1T	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
18172-2	2T	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

RPD, %	8
Spike: % Recovery	100

LABORATORY NUMBER: 18172
 CLIENT: AQUA RESOURCES
 JOB NUMBER: 87157.6
 JOB LOCATION: LIVERMORE

DATE RECEIVED: 09/01/89
 DATE ANALYZED: 09/13/89
 DATE REPORTED: 09/13/89
 PAGE 3 OF 3

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)
18172-1	1T	ND(1)	ND(1)	ND(1)	ND(1)
18172-2	2T	ND(1)	ND(1)	ND(1)	ND(1)

QA/QC SUMMARY

%RPD	<1
%RECOVERY	92

