



July 30, 1990

Mrs. Barbara B. Hagen  
East Bay Municipal Utility District  
Source Control Division, #59  
Post Office Box 24055  
Oakland, California 94623

**RE: Wastewater Monthly Report/Sample Data for the Groundwater  
Treatment System at the Carnation Dairy Facility in Oakland**

**AGE Project Numbers: 004-88-059, 004-89-093, 004-89-096**

**Account No. 033-00572**

Dear Mrs. Hagen:

Enclosed are the laboratory analyses for the groundwater treatment system for the period of June 27, 1990 through July 30, 1990. The analyses were performed by Chromalab, Incorporated. The sample number 3964 refers to the influent wastewater stream, sample number 3960 refers to the effluent stream from carbon column 1, and sample number 3963 refers to the effluent stream from carbon column 2. The samples were analyzed for aromatic volatile organics (EPA 8020) as per the permit requirements.

The total amount discharged to the sewer is 1,208,290 gallons.  
The monthly discharge total is 312,909 gallons.

If you have any questions concerning this information, please feel free to contact Jim Wallace or myself at (916) 631-0154.

Sincerely,

**ANANIA GEOLOGIC ENGINEERING**

A handwritten signature in cursive script, appearing to read "Todd M. Galati".

Todd M. Galati  
Project Manager

A handwritten signature in cursive script, appearing to read "Jim Wallace".

Jim Wallace  
Senior Project Manager

Enclosure

cc: Mr. Merle Wood, Carnation  
Mr. Jim Person, Carnation  
Ms. Katherine Chesick, Alameda County Health Department



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

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

RECEIVED JUL 26 1990

DATE RECEIVED: 07/05/90  
DATE REPORTED: 07/18/90  
PAGE 1 OF 4

LAB NUMBER: 100990

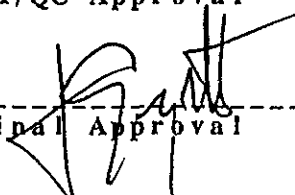
CLIENT: ANANIA GEOLOGIC ENGINEERING

REPORT ON: 3 WATER SAMPLES

PROJECT #: 004-88-059

RESULTS: SEE ATTACHED

  
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QA/QC Approval

  
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Final Approval

LABORATORY NUMBER: 100990-1  
 CLIENT: ANANIA GEOLOGIC ENNGINEERING  
 JOB #: 004-88-059  
 SAMPLE ID: 3963

DATE RECEIVED: 07/05/90  
 DATE ANALYZED: 07/10/90  
 DATE REPORTED: 07/18/90  
 PAGE 2 OF 4

EPA 8020: Volatile Aromatic Hydrocarbons in Water

| COMPOUND                 | RESULT<br>ug/L | REPORTING<br>LIMIT<br>ug/L |
|--------------------------|----------------|----------------------------|
| Benzene.....             | ND             | 1.0                        |
| Toluene.....             | ND             | 1.0                        |
| Ethyl Benzene.....       | ND             | 1.0                        |
| Total Xylenes.....       | ND             | 1.0                        |
| Chlorobenzene.....       | ND             | 1.0                        |
| 1,4-Dichlorobenzene..... | ND             | 1.0                        |
| 1,3-Dichlorobenzene..... | ND             | 1.0                        |
| 1,2-Dichlorobenzene..... | ND             | 1.0                        |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

|             |    |
|-------------|----|
| RPD, %      | <1 |
| RECOVERY, % | 90 |



LABORATORY NUMBER: 100990-2  
 CLIENT: ANANIA GEOLOGIC ENNGINEERING  
 JOB #: 004-88-059  
 SAMPLE ID: 3960

DATE RECEIVED: 07/05/90  
 DATE ANALYZED: 07/10/90  
 DATE REPORTED: 07/18/90  
 PAGE 3 OF 4

EPA 8020: Volatile Aromatic Hydrocarbons in Water

| COMPOUND                 | RESULT<br>ug/L | REPORTING<br>LIMIT<br>ug/L |
|--------------------------|----------------|----------------------------|
| Benzene.....             | ND             | 1.0                        |
| Toluene.....             | ND             | 1.0                        |
| Ethyl Benzene.....       | ND             | 1.0                        |
| Total Xylenes.....       | ND             | 1.0                        |
| Chlorobenzene.....       | ND             | 1.0                        |
| 1,4-Dichlorobenzene..... | ND             | 1.0                        |
| 1,3-Dichlorobenzene..... | ND             | 1.0                        |
| 1,2-Dichlorobenzene..... | ND             | 1.0                        |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

|             |    |
|-------------|----|
| RPD, %      | <1 |
| RECOVERY, % | 90 |

LABORATORY NUMBER: 100990-3  
 CLIENT: ANANIA GEOLOGIC ENNGINEERING  
 JOB #: 004-88-059  
 SAMPLE ID: 3964

DATE RECEIVED: 07/05/90  
 DATE ANALYZED: 07/10/90  
 DATE REPORTED: 07/18/90  
 PAGE 4 OF 4

EPA 8020: Volatile Aromatic Hydrocarbons in Water

| COMPOUND                 | RESULT<br>ug/L | REPORTING<br>LIMIT<br>ug/L |
|--------------------------|----------------|----------------------------|
| Benzene.....             | 190            | 1.0                        |
| Toluene.....             | ND             | 1.0                        |
| Ethyl Benzene.....       | ND             | 1.0                        |
| Total Xylenes.....       | 340            | 1.0                        |
| Chlorobenzene.....       | ND             | 1.0                        |
| 1,4-Dichlorobenzene..... | ND             | 1.0                        |
| 1,3-Dichlorobenzene..... | ND             | 1.0                        |
| 1,2-Dichlorobenzene..... | ND             | 1.0                        |

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

|             |    |
|-------------|----|
| RPD, %      | <1 |
| RECOVERY, % | 90 |

**ANANIA GEOLOGIC ENGINEERING**

ENTERED *ms*

AGE No 3203

| AGE PROJECT NO. |        | LAB REPORT NO.         |               | No. of Containers | GRAB | COMPOSITE | ANALYSES    |       |   |      |  |  |  |  |  |  | REMARKS |         |  |  |  |
|-----------------|--------|------------------------|---------------|-------------------|------|-----------|-------------|-------|---|------|--|--|--|--|--|--|---------|---------|--|--|--|
| P.O. NO.        |        | SAMPLERS: (SIGNATURE)  |               |                   |      |           | SAMPLE TYPE |       |   | 8020 |  |  |  |  |  |  |         |         |  |  |  |
|                 |        | <i>Jerry Brownwind</i> |               |                   |      |           | INITIALS    |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
| LAB LOG NO.     | DATE   | TIME                   | SAMPLE I.D.   |                   |      | SOL       | WATER       | OTHER |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 | 7/5/90 | 1250                   | 3963 C-2      | 2                 | X    |           | X           |       | X |      |  |  |  |  |  |  |         | Reg TAT |  |  |  |
|                 | 7/5/90 | 1248                   | 3960 C-1      | 2                 | X    |           | X           |       | X |      |  |  |  |  |  |  |         | " "     |  |  |  |
|                 | 7/5/90 | 1258                   | 3964 INFLUENT | 2                 | X    |           | X           |       | X |      |  |  |  |  |  |  |         | " "     |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |
|                 |        |                        |               |                   |      |           |             |       |   |      |  |  |  |  |  |  |         |         |  |  |  |

|   |                          |  |                             |                          |   |
|---|--------------------------|--|-----------------------------|--------------------------|---|
| RELINQUISHED BY: (SIGNATURE)<br><i>Jerry Brownwind</i><br>COMPANY AGE | DATE/TIME<br>7/5/90 2:46 | RELINQUISHED BY: (SIGNATURE)<br><i>Scott K. H... ..</i><br>COMPANY C+T | DATE/TIME<br>7-5-90<br>2:45 | SEND COPY OF RESULTS TO: | ORIGINAL RESULTS AND INVOICE TO:<br><br>Anania Geologic Engineering<br>P.O. Box 161148<br>Sacramento, CA 95816<br><br>ATTN: Jim Wallace<br><br>FAX: (916) 631-0528<br>TEL: (916) 631-0154 |
| RELINQUISHED BY: (SIGNATURE)  | DATE/TIME                | RELINQUISHED BY: (SIGNATURE)   | DATE/TIME                   | ATTN:                    |   |
| RELINQUISHED BY: (SIGNATURE)  | DATE/TIME                | RELINQUISHED BY: (SIGNATURE)   | DATE/TIME                   | REMARKS: <i>Reg TAT</i>  |   |
| RELINQUISHED BY: (SIGNATURE)  | DATE/TIME                | RELINQUISHED BY: (SIGNATURE)   | DATE/TIME                   |                          |   |
| RELINQUISHED BY: (SIGNATURE)  | DATE/TIME                | RELINQUISHED BY: (SIGNATURE)   | DATE/TIME                   |                          |   |

CHAIN OF CUSTODY  
YELLOW - LAB COPY