



92 OCT 03 AM 6:21

West Coast Office  
Suite 370  
3250 Ocean Park Blvd.  
Santa Monica, CA 90405  
Phone: 213-452-5078  
FAX: 213-450-5787

October 28, 1992

Ms. Jennifer Eberle  
Alameda County  
Health Care Services Agency  
Department of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Rm. 200  
Oakland, CA 94621

692

**Subject: Aratex Services, Inc.  
330 Chestnut St.  
Oakland, CA 94607**

Dear Ms. Eberle:

This letter transmits results of groundwater monitoring conducted on December 12, 1991, at the Aratex Services facility located at 330 Chestnut Street in Oakland, California.

#### SUMMARY OF PRIOR GROUNDWATER MONITORING

One 2,000-gallon underground diesel storage tank, utilized by the Aratex facility for back-up boiler operation, was removed in December of 1988. The Alameda County Health Care Services Agency (ACHCSA) reviewed closure documentation and required a supplementary subsurface investigation to evaluate potential fuel hydrocarbon impact on soils or groundwater.

In spring of 1989, four 2-inch diameter groundwater monitoring wells were installed to depths ranging from 24 to 27 feet below grade. No detectable concentrations of petroleum hydrocarbons were identified in soil or groundwater samples from wells RAO-1, RAO-2, or RAO-4. However, the soil sample collected at 8 feet below grade (the capillary fringe), and groundwater samples from RAO-3 contained elevated concentrations of both TPH and BTEX. Although not measurable at the time of installation, a sheen of product was noted on the groundwater from RAO-3.

In March of 1990, RMT resampled the groundwater monitoring wells at the Aratex facility. Results of laboratory analysis of groundwater samples were similar to the spring, 1989 sample analysis results; however, in March, 1990, 1.13 feet of floating product were observed in groundwater monitoring well RAO-3.

Ms. Jennifer Eberle  
October 28, 1992  
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## CURRENT GROUNDWATER MONITORING

### Groundwater Sampling

On December 12, 1991, groundwater monitoring wells RAO-1, RAO-2, and RAO-4 were purged and sampled for monitoring. Approximately three casing volumes of fluid (10 gallons total) were evacuated from each well using a Brainard-Kilman positive displacement pump. A separate manufacturer-cleaned disposable PVC bailer was utilized to collect water samples from each well. Samples were placed into laboratory-cleaned, 50 milliliter glass vials with teflon septum screw lids. Samples were collected without bubbles and immediately placed on ice to preserve volatile organic hydrocarbons in solution for accurate analysis.

Groundwater monitoring well RAO-3 was not sampled. Floating product was observed on the water and measured utilizing an electronic fuel-water interface probe. The observed product thickness was 1.66 feet.

All water samples were transported to GTEL laboratory in Torrance in accordance with United States Environmental Protection Agency (USEPA) protocol, including chain-of-custody procedures. The chain-of-custody document is enclosed.

### Groundwater Sample Analysis and Results

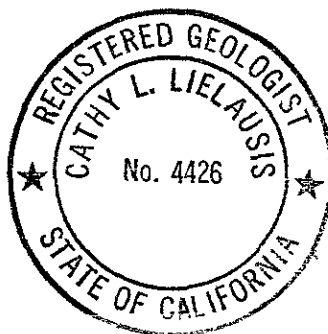
Each groundwater sample was analyzed by gas chromatography according to USEPA test method 8015, modified to detect diesel (LUFT method for TPH-d), and aromatic volatile organics (BTEX) by USEPA test method 8020. Results are reported in micrograms per liter ( $\mu\text{g/L}$ ) with a detection limit of 10  $\mu\text{g/L}$  for TPH-d, 0.3  $\mu\text{g/L}$  for benzene, toluene, and ethylbenzene, and 0.5  $\mu\text{g/L}$  for total xylene isomers.

As in the past, no detectable concentrations of TPH-d or BTEX were identified in the samples from RAO-1, RAO-2, or RAO-4.

We will be happy to discuss any questions you or your staff may have regarding our investigation or report.

Respectfully submitted,

*Cathy L. Lielausis*  
Cathy L. Lielausis, RG, REA  
Senior Geologist  
Manager of Hydrogeology



*exp. date?*

Enc: Analytical Laboratory Report/Chain-of-Custody Documents



# GTEL

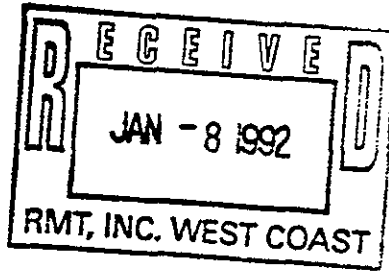
ENVIRONMENTAL  
LABORATORIES, INC.

**Northwest Region**

4080-C Pike Lane  
Concord, CA 94520  
(415) 685-7852  
(800) 544-3422 from inside California  
(800) 423-7143 from outside California  
(415) 825-0720 (FAX)

Client Number: RMT01RMT01  
Consultant Project Number: 12013.06  
Project ID: Aratex Oakland  
Work Order Number: C1-12-478

December 27, 1991



Cathy Lielausis  
RMT, Inc.  
3250 Ocean Park Blvd.  
Santa Monica, CA 90405

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 12/12/91, under chain of custody record 010445.

A formal Quality Control/Quality Assurance (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,  
GTEL Environmental Laboratories, Inc.

*Emma P. Popek/nc*  
Emma P. Popek  
Laboratory Director

**Table 1**

**ANALYTICAL RESULTS**

**Total Petroleum Hydrocarbons as Diesel in Water**

**Modified EPA Methods 3510/8015<sup>a</sup>**

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.

|                               |                          |                     |          |          |  |
|-------------------------------|--------------------------|---------------------|----------|----------|--|
| GTEL Sample Number            |                          | 07                  | 09       | 10       |  |
| Client Identification         |                          | RAO-1               | RAO-2    | RAO-4    |  |
| Date Sampled                  |                          | 12/12/91            | 12/12/91 | 12/12/91 |  |
| Date Extracted                |                          | 12/19/91            | 12/19/91 | 12/12/91 |  |
| Date Analyzed                 |                          | 12/23/91            | 12/23/91 | 12/23/91 |  |
| Analyte                       | Quantitation Limit, ug/L | Concentration, ug/L |          |          |  |
| Diesel                        | 10                       | <10 ✓               | <10 ✓    | <10 ✓    |  |
| Quantitation Limit Multiplier |                          | 1                   | 1        | 1        |  |



# GTEL

ENVIRONMENTAL  
LABORATORIES, INC.

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Sincerely,

GTEL Environmental Laboratories, Inc.

Emma P. Popek  
Laboratory Director

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and  
 Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

| GTEL Sample Number         |                       | 09                  | 10       | 11       |
|----------------------------|-----------------------|---------------------|----------|----------|
| Client Identification      |                       | RAO-1               | RAO-2    | RAO-4    |
| Date Sampled               |                       | 12/12/91            | 12/12/91 | 12/12/91 |
| Date Analyzed              |                       | 12/23/91            | 12/23/91 | 12/18/91 |
| Analyte                    | Detection Limit, ug/L | Concentration, ug/L |          |          |
| Benzene                    | 0.3                   | <0.3 ✓              | <0.3 ✓   | <0.3 ✓   |
| Toluene                    | 0.3                   | <0.3 ✓              | <0.3 ✓   | <0.3 ✓   |
| Ethylbenzene               | 0.3                   | <0.3 ✓              | <0.3 ✓   | <0.3 ✓   |
| Xylene, total              | 0.5                   | <0.5 ✓              | <0.5 ✓   | <0.5 ✓   |
| BTEX, total                | --                    | --                  | --       | --       |
| Gasoline                   | 10                    | <10 ✓               | <10 ✓    | <10 ✓    |
| Detection Limit Multiplier |                       | 1                   | 1        | 1        |

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision.



Madison, WI 53717  
744 Heartland Trail  
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Dublin, OH  
Atlanta, GA

Santa Monica, CA  
Nashville, TN

Grand Ledge, MI  
Schaumburg, IL

Greenville, SC

F-268 (R2/88)  
(Use Black Ink Only)

CHAIN OF CUSTODY RECORD

№ 010445

Sample Type: (GW) WW, SW, Sol, Other)

Bottles Prepared by GTCL Date/Time            Office Code: CA  
(State)

Project No 12013.06 Client ARATEX OAKLAND

Total Number  
Of Containers

| Container Inventory | CA0015 TPA-D | CA0015 TPA-G / EPA820 | CA0015 TPA-E | CA0015 TPA-F | CA0015 TPA-G | CA0015 TPA-H | CA0015 TPA-I | CA0015 TPA-J |
|---------------------|--------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| N/N                 | A/A          | A/A                   | X            | X            | X            | X            | X            | X            |

Filtered (Yes/No) \_\_\_\_\_  
Preserved (Code) \_\_\_\_\_  
Refrigerated (Yes/No) \_\_\_\_\_

Code: A - None  
B - HNO3  
C - H2SO4  
D - NaOH  
E - \_\_\_\_\_

Comments:

| RMT Lab NO | Yr | Date  | Time  | Sample Station ID | Total Number Of Containers |
|------------|----|-------|-------|-------------------|----------------------------|
| 08         | 91 | 12/12 | 09:20 | RA0-1             | 3                          |
| 09         |    | 12/12 | 09:10 | RA0-2             | 3                          |
| 10         |    | 12/12 | 09:30 | RA0-4             | 3                          |
|            |    |       |       |                   |                            |
|            |    |       |       |                   |                            |
|            |    |       |       |                   |                            |
|            |    |       |       |                   |                            |
|            |    |       |       |                   |                            |
|            |    |       |       |                   |                            |

pH = 7.10 EC = 1.09 T° = 19.2 Turb = 0.15  
pH = 7.18 EC = .99 T° = 18.7 Turb = 0.15  
pH = 6.95 EC = .81 T° = 19.9 Turb = 0.15

EC in millimhos/cm  
T° = C°  
Turbidity = NTUs

Please fax results  
HAZARDS ASSOCIATED WITH SAMPLES  
Low Levels Hydrocarbons

|   |                                    |   |                                    |
|---|------------------------------------|---|------------------------------------|
| ①<br>Sampler Relinquished by (Sig.) <u>Peter A...</u> | Date/Time<br><u>12/14/91 11:33</u> | Received by (Sig.)<br><u>Randy...</u><br>Shipper Name & # | Date/Time<br><u>12/14/91 11:33</u> |
| ③<br>Relinquished by (Sig.)                           | Date/Time                          | Received by (Sig.)<br>Shipper Name & #                    | Date/Time                          |
| ⑤<br>Relinquished by (Sig.)                           | Date/Time                          | Received by (Sig.)<br>Shipper Name & #                    | Date/Time                          |

(For Lab Use Only)

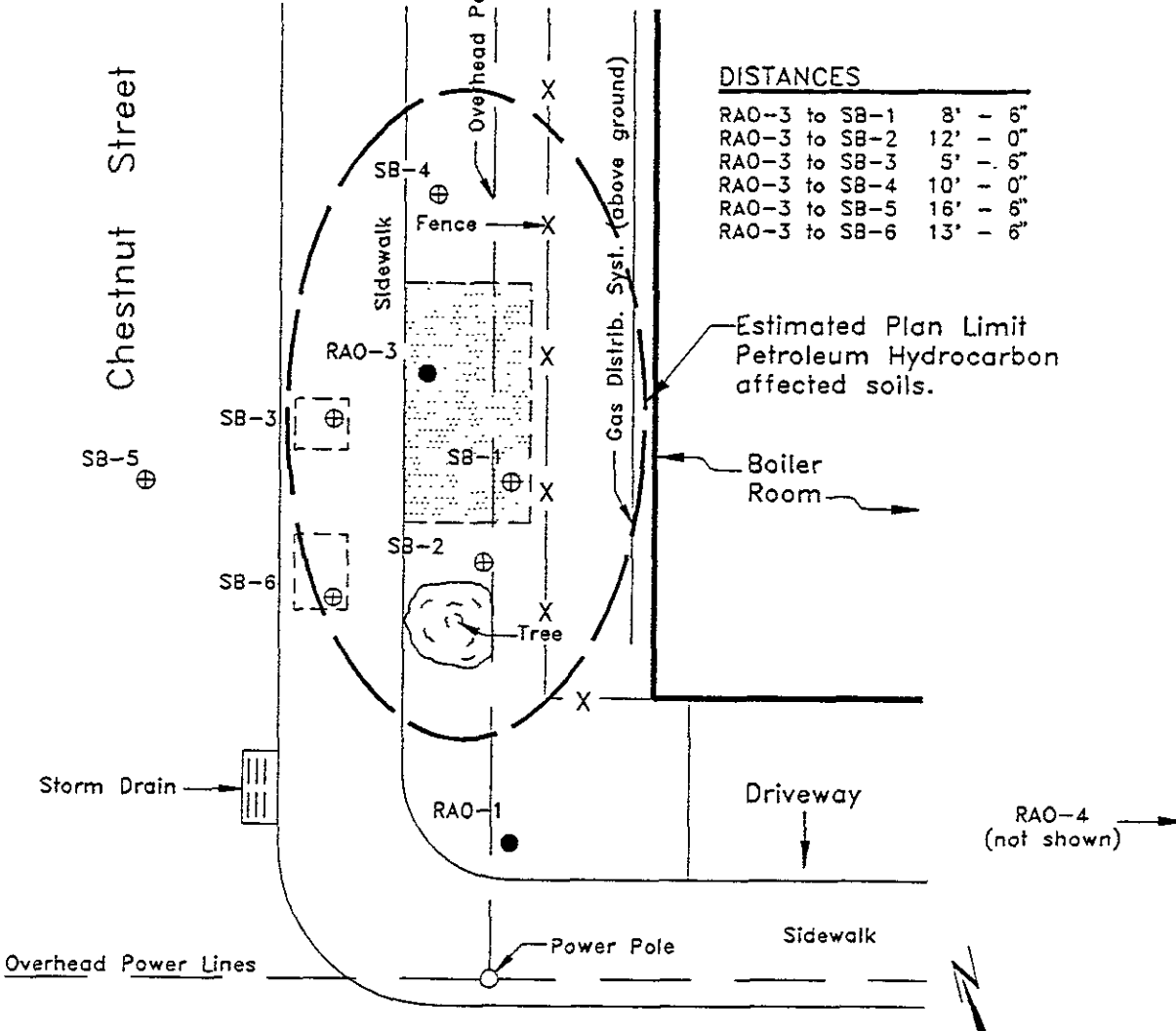
Receipt Temp \_\_\_\_\_ Receipt pH \_\_\_\_\_  
Client P.O. Number \_\_\_\_\_  
Subsequent Analysis: \_\_\_\_\_ (Check)

Legend :

- RAO-x ● Ground Water Monitoring Well ; RMT 6/89
- SB-x ⊕ Soil Boring ; RMT 9/90
- Plant
- Estimated limits of Dec.1988 Tank Removed and backfill
- x-x-x- Fence, 6-Foot high chain link

MAIN OFFICE  
 →

RAO-2  
 (not shown)  
 ↑



**DISTANCES**

|               |          |
|---------------|----------|
| RAO-3 to SB-1 | 8' - 6"  |
| RAO-3 to SB-2 | 12' - 0" |
| RAO-3 to SB-3 | 5' - 6"  |
| RAO-3 to SB-4 | 10' - 0" |
| RAO-3 to SB-5 | 16' - 6" |
| RAO-3 to SB-6 | 13' - 6" |

Estimated Plan Limit  
 Petroleum Hydrocarbon  
 affected soils.

Boiler Room

Driveway

RAO-4  
 (not shown)  
 →

Overhead Power Lines

Power Pole

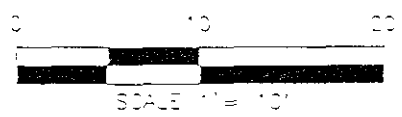
Sidewalk

Third Street



Interpreted Areal Extent  
 0'

Petroleum Hydrocarbon Affected Area  
 Aratex Services, Inc.  
 330 Chestnut Street  
 Oakland, Ca



|        |             |
|--------|-------------|
| NO.    | DWN BY PAS  |
| DATE   | DEC 07 1990 |
| PROJ # | 162203      |
| FILE # | 16220306    |

Figure 6