

# John P. Cummings & Associates

Environmental Consultants

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P.O. Box 2847  
Fremont, CA 94536-2847

File No. 0293002.02  
December 26, 1995

PERSONNEL AND CONFIDENTIAL

Mr. Reuben Hausauer  
6017 East 14th Street  
Oakland, CA 94601

Re: Groundwater Monitoring  
3927 E. 14th Street, Oakland CA

Dear Mr. Hausauer:

John P. Cummings and Associates (JPCA) is pleased to present the results of the fourth quarterly groundwater monitoring at 3927 East 14th Street, in Oakland, California. An Underground Storage Tank (UST), formerly used for waste oil, was closed in place beneath the sidewalk on this site.

Soil samples from three borings and one well construction collected during previous investigations were analyzed. The results reported from the soil and groundwater analysis indicated levels of Total Petroleum Hydrocarbon as Gasoline (TPHG), Total Petroleum Hydrocarbon as Diesel (TPHD), Oil and Grease (TOG), Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and Cadmium, Chromium, Lead, Nickel and Zinc, (CAM 5 Metals), contamination which required further soil and groundwater investigation.

A request for quarterly groundwater monitoring of the existing well was sent from the Alameda County Department of Environmental Health (ACDEH) by letter dated February 22, 1995.

## FIELD METHODS

On December 16, 1995 prior to purging and sampling the depth to groundwater was measured at 7.78 feet, by an electronic probe, from the mark located on the top of the casing. The level was approximately 0.2 feet higher than the September 1995 measurement, probably due to the recent rains. There was approximately  $\frac{1}{4}$  inch of floating product with a strong hydrocarbon odor.

Field notes are in Appendix A. The Site Plan is Figure 1.

Approximately 2 gallons of groundwater was removed from MW-1, by bailing and the well went to dryness. The water so removed was

East 14th Street

different building

B-3

20 feet

B-1

3927

East

14th Street



B-2

MW-1

Roll-up Door



40th Avenue

0 5 10 feet

scale: 1" equals 6'



boring



monitoring well

JOHN P. CUMMINGS & ASSOCIATES

PROJECT # 0293002.01  
3927 E. 14th St.  
Oakland, California

Fig. 1

PARTIAL SITE PLAN  
& BORING LOCATIONS

stored in a 55 gallon drum, marked awaiting analysis.

After the well recovered, groundwater samples were collected from the well with a dedicated acrylic bailer and placed in two pre-cleaned 40-ml vials with Teflon-coated septa, acidified with hydrochloric acid, two one-liter glass containers, one for TPHD and the other for TOG analysis were filled with the groundwater sample and one plastic 500 cc container was also filled for the CAM-5 analysis. The containers were labeled with sample identification, placed in an ice chest with ice, along with a Chain of Custody (COC) document and transported to MCCAMPBELL ANALYTICAL INC., a State Certified Laboratory in Pacheco, CA. The groundwater had an odor but no surface product after the well was pumped.

### ANALYTICAL RESULTS

The groundwater sample was analyzed for TPHG, TPHD, BTEX TOG and CAM 5 metals. The results of the chemical analysis for TPHG, TPHD, BTEX and TOG in parts per billion (ppb) for the groundwater sample collected from Monitoring Well 1 are shown in Table 1 below. Laboratory Data Sheets, with detection limits, and a copy of the Chain of Custody (COC) are contained in Appendix B.

TABLE 1.  
ppb

12/16/95

| Sample ID  | TPHD   | TOG     | TPHG   | B     | T   | E   | X   |
|------------|--------|---------|--------|-------|-----|-----|-----|
| MW-1 Water | 17,000 | 210,000 | 12,000 | 1,500 | 180 | 450 | 730 |

The CAM-5 analysis presented in Table 2 indicated low values, and most likely indigenous to the local soil. The metals previously detected in the soil analysis were low and most likely indigenous to the local soil deposits, in other words background levels.

TABLE 2.  
ppb

| Sample ID  | Cd | Cr | Ni | Pb | Zn |
|------------|----|----|----|----|----|
| MW-1 Water | ND | 49 | 15 | 36 | 72 |

ND=Non-Detected

**SUMMARY, CONCLUSIONS AND RECOMMENDATIONS**

The groundwater level has risen, most likely due to the recent rainfall.

There was a sheen on the groundwater surface and a moderate to strong hydrocarbon odor.

No detectable level of Cadmium was found in the groundwater. The Chromium, Lead, Nickel and Zinc concentrations were low values and most likely indigenous to the local soil. The metals previously detected in the soil samples are considered background.

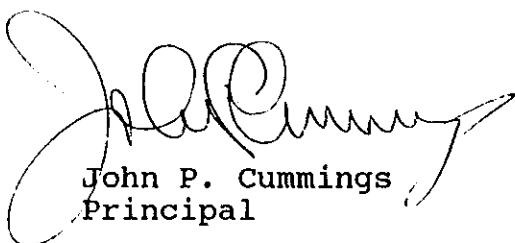
The levels of petroleum product contamination in the groundwater are above action levels, however JPCA recommends continued monitoring and that the results of the OWEN'S site investigation be reviewed prior to any further action being commenced with the ACDEH.

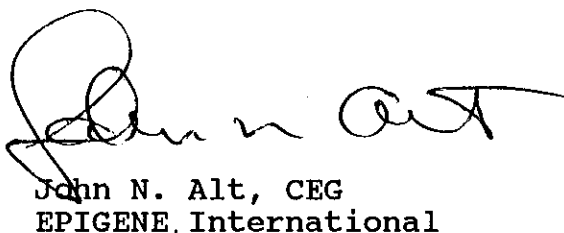
This report has been prepared specifically for Mr. Hausauer, through his Attorney, Robert W. Shapiro, with specific application to a possible hazardous waste investigation. The report has been prepared with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented.

Copies of this quarterly report are being forwarded to the ACDEH and the Regional Water Quality Control Board (RWQCB), as requested by Mr. Hausauer.

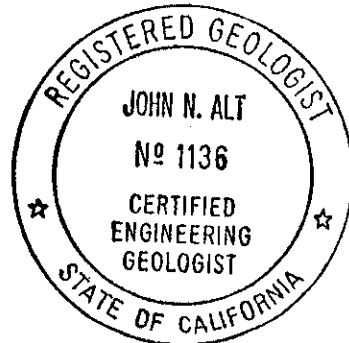
If you have any questions, please contact JPCA at (510) 505-0722.

Sincerely,

  
John P. Cummings  
Principal

  
John N. Alt, CEG  
EPIGENE International

cc; Rich Hiett, RWQCB  
Barney Chan, ACDEH ✓



# **APPENDIX A**

John P. Cummings and Associates  
P O Box 2847  
38750 Paseo Padre Pkwy B-4  
Fremont, CA 94536

Well Data Sheet  
Monitoring Well  
Sampling

Date: 12/16/95 Well No.: MW-1  
Project Name: Nu Genics Project No.: 293002.02  
Project Location: 3927 E 14th ST Oakland  
Possible Contaminants: TPH, BTEX, TPAD, TOC, CAM 5  
Well Diameter: 2" Well Depth: 17.5  
Depth To Groundwater: 7.78 Approximate Casing Volume: 2 1/7 gal  
Purge Method: Pump  
Evidence of Floating Product: Yes  No ; if yes, thickness 1/4"  
Sheen: Yes  No ; N/A Odor: Yes  No  Strong odor

| TIME           | PURGE VOLUME | CUMULATIVE PURGE | TEMP °F | COND. | pH | COMMENTS   |
|----------------|--------------|------------------|---------|-------|----|------------|
| <u>3:11:20</u> | <u>2.0</u>   | <u>2.0</u>       |         |       |    | <u>Dry</u> |
|                |              |                  |         |       |    |            |
|                |              |                  |         |       |    |            |
|                |              |                  |         |       |    |            |

Sampling Method: Bailer  
Comments: Floating product before purge to 1/4 inch  
Signature: John Cummings

## **APPENDIX B**





|  |                                |                          |
|--|--------------------------------|--------------------------|
| John P. Cummings & Associates<br>P.O. Box 2847<br>Fremont, CA 94536-2847 | Client Project ID: # 293002.02 | Date Sampled: 12/16/95   |
|  |                                | Date Received: 12/18/95  |
|  | Client Contact: John Cummings  | Date Extracted: 12/18/95 |
|  | Client P.O:                    | Date Analyzed: 12/18/95  |

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with BTEX\***

EPA methods 5030, modified 8015, and 8020 or 602; California RWOCB (SF Bay Region) method GCFID(5030)

| Lab ID   | Client ID | Matrix    | TPH(g) <sup>+</sup> | Benzene | Toluene | Ethylbenzene | Xylenes | % Rec. Surrogate |
|--|-----------|-----------|---------------------|---------|---------|--------------|---------|------------------|
| 59668  | MW-1      | W         | 12,000,a,h          | 1500    | 180     | 450          | 730     | 108              |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
|  |           |           |                     |         |         |              |         |                  |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W         | 50 ug/L   | 0.5                 | 0.5     | 0.5     | 0.5          |         |                  |
|  | S         | 1.0 mg/kg | 0.005               | 0.005   | 0.005   | 0.005        |         |                  |

\* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

# cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.





# CHAIN OF CUSTODY

5476A5CAX41

## John P. Cummings & Associates

Environmental Consultants

**Laboratory:** McCannell Analytical  
 110 2nd Avenue South D-7  
 Pacheco, CA 94553  
 510-798-1620  
**Contact:** Ed Hamilton

Ph. (510) 505-0722  
 Fax (510) 791-3306

P.O. Box 2847  
 Fremont, CA 94536-2847

**Contact:** John P. Cummings  
**Project Name:** New Services  
**Date:** 16 Dec 1995  
**Sampler:**  
 No. 293002-02

| Sample I.D. | Date/Time Sampled                                     | Matrix Desc. | Container No. of | Type           | Lab. # | Analyses Requested |      |            |          |          |      |       | Comments |       |
|-------------|---|--------------|------------------|----------------|--------|--------------------|------|------------|----------|----------|------|-------|----------|-------|
|             |   |              |                  |                |        | TPH/Gasoline       | BTEX | TPH/Diesel | 601/8010 | 602/8020 | TU-G | CPM 5 |          |       |
| 1. MW-1     | Dec 16 1995<br>11:50                                  | Water        | 2                | 200 ml<br>VOAS |        | X                  | X    |            |          |          |      |       |          |       |
| 2. MW-1     |   | 1            | 100 L Glass      |                |        |                    |      | X          |          |          |      |       |          |       |
| 3. MW-1     |   | 1            | 100 L Glass      |                |        |                    |      |            |          |          |      |       |          | 59668 |
| 4. MW-1     |   | 1            | 500 cc Plastic   |                |        |                    |      |            |          | X        |      |       |          |       |
| 5.          |   |              |                  |                |        |                    |      |            |          |          | X    |       |          |       |
| 6.          |   |              |                  |                |        |                    |      |            |          |          |      |       |          |       |
| 7.          |   |              |                  |                |        |                    |      |            |          |          |      |       |          |       |
| 8.          | ICE/T° <input checked="" type="checkbox"/>            |              |                  |                |        |                    |      |            |          |          |      |       |          |       |
| 9.          | GOOD CONDITION <input checked="" type="checkbox"/>    |              |                  |                |        |                    |      |            |          |          |      |       |          |       |
| 10.         | HEAD SPACE ABSENT <input checked="" type="checkbox"/> |              |                  |                |        |                    |      |            |          |          |      |       |          |       |

|  |                |             |                                 |                |             |
|--|----------------|-------------|---------------------------------|----------------|-------------|
| Relinquished by: <i>John P. Cummings</i> | Date: 12/18/95 | Time: 9:20  | Received by: <i>Frank Kelly</i> | Date: 12-18    | Time: 9:20  |
| Relinquished by: <i>[Signature]</i>      | Date: 12/18    | Time: 11:05 | Received by: <i>[Signature]</i> | Date: 12/18/95 | Time: 11:05 |
| Relinquished by:                         | Date:          | Time:       | Received by:                    | Date:          | Time:       |

Turnaround Time: *Normal*

Additional Comments:

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