# FAX

**Tetra Tech**
**180 Howard Street, Suite 250**
**San Francisco, CA 94105-1617**

**Date** January 4, 1996

Number of pages including cover sheet 5

**To:**

**Susan Hugo**
**Alemeda Cty Env. Protection**

Phone
Fax Phone **(510) 337-9335**
CC:

**From:**

**Michael Wopat**
**Tetra Tech**
180 Howard Street, #250
SF, CA 94105
Phone 415-974-1221
Fax Phone 415-974-5914 (Main)
415-974-3601 (Contracts)

**REMARKS:**

☐ Urgent **X** For your review ☐ Reply ASAP ☐ Please comment

I am sending for your review new data FAXed to me from the lab that analyzed the soil and water samples collected at Caltrans' Ettie Street maintenance Station. At my request the lab reviewed the TPHd chromatogram for the water sample collected from the diesel tank pit to determine if any contamination from motor oil could be detected in the water. Although the lab did detect contamination in the motor oil range, they concluded upon review of the chromatogram that the contamination in the motor oil range resulted from overlap of the diesel fuel into that range. The lab has subsequently prepared a revised analytical report that quantitates the TPH-motor oil and indicates in a cover letter the TPH-motor oil detected in the water sample can be ascribed to diesel fuel.

These results suggest that the motor oil that was detected on the pea gravel from the diesel tank pit is not impacting ground water.

*PLEASE CALL (415) 974-1221 IF YOU HAVE ANY QUESTIONS OR PROBLEMS WITH THIS TRANSMISSION*

# Entech Analytical Labs, Inc.

CA ELAP# 1369

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554


December 21, 1995

Mr. Mike Wopat
Tetra Tech, Inc.
180 Howard St.
San Francisco, CA 94105

Dear Mr. Wopat:

I am writing in response to your questions regarding analytical results submitted on October 27, 1995 for the Ettie Street project (Tetra Tech Project #TC0637-03).

At your request we have reviewed the chromatogram for lab #B11198 (sample ID: 'Diesel') and provided a calibrated value for TPH-Motor Oil. This value is 170 µg/liter and has been added to this report. It should be noted, however, that the chromatogram for this sample analysis (attached) clearly indicates that this represents a carry over from the adjacent Diesel fuel range rather than the presence of Motor Oil. This is a common occurrence with TPH analyses by Gas Chromatography. The amended report (attached) includes our standard annotation for such a finding.

I hope that this information is helpful. Please feel free to call me at (408) 735-1550 X30 if you have questions or need more information regarding this report or other Entech services.

Sincerely,
Entech Analytical Labs, Inc.

Michael N. Golden
CEO/Lab Director

# Hull Development Labs, Inc.

CA ELAP# 1369

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

**Tetra Tech, Inc.**
**180 Howard Street**
**San Francisco, CA 94105**
**Attn: Bob Cotton/Mike Wopat**

| | |
|---|---|
| Date: | 10/27/95 |
| Date Received: | 10/20/95 |
| Date Analyzed: | 10/25/95 |
| Project Name: | Ettie Street |
| Project Number: | TC0637-03 |
| Sampled By: | Client |

## Certified Analytical Report

**Water Sample Analysis:**

| *Test* | *Gas* | *Diesel* | *Units* | *MDL* | *EPA Method #* |
|---|---|---|---|---|---|
| Sample Matrix | Water | Water | | | |
| Sample Date | 10/19/95 | 10/19/95 | | | |
| Sample Time | 1500 | 1530 | | | |
| Lab # | B11197 | B11198 | | | |
| **Lead, Dissolved** | **ND[4]** | **na** | mg/liter | 0.05 mg/l | 239.1 |
| DF-Diesel | | 1 | | | |
| **TPH-Diesel** | **na** | **2,000** | µg/liter | 50.0 µg/l | 8015M |
| **TPH-Motor Oil** | **na** | **170[3]** | µg/liter | 50.0 µg/l | 8015M |
| DF-MTBE | 1 | 1 | | | |
| **MTBE** | **260** | **na** | µg/liter | 5.0 µg/l | 8020 |
| DF-Gas/BTEX | 1 | 1 | | | |
| **TPH-Gas** | **ND** | **na** | µg/liter | 50.0 µg/l | 8015M |
| **Benzene** | **ND** | **ND** | µg/liter | 0.5 µg/l | 8020 |
| **Toluene** | **ND** | **ND** | µg/liter | 0.5 µg/l | 8020 |
| **Ethyl Benzene** | **ND** | **ND** | µg/liter | 0.5 µg/l | 8020 |
| **Xylenes** | **36** | **ND** | µg/liter | 0.5 µg/l | 8020 |

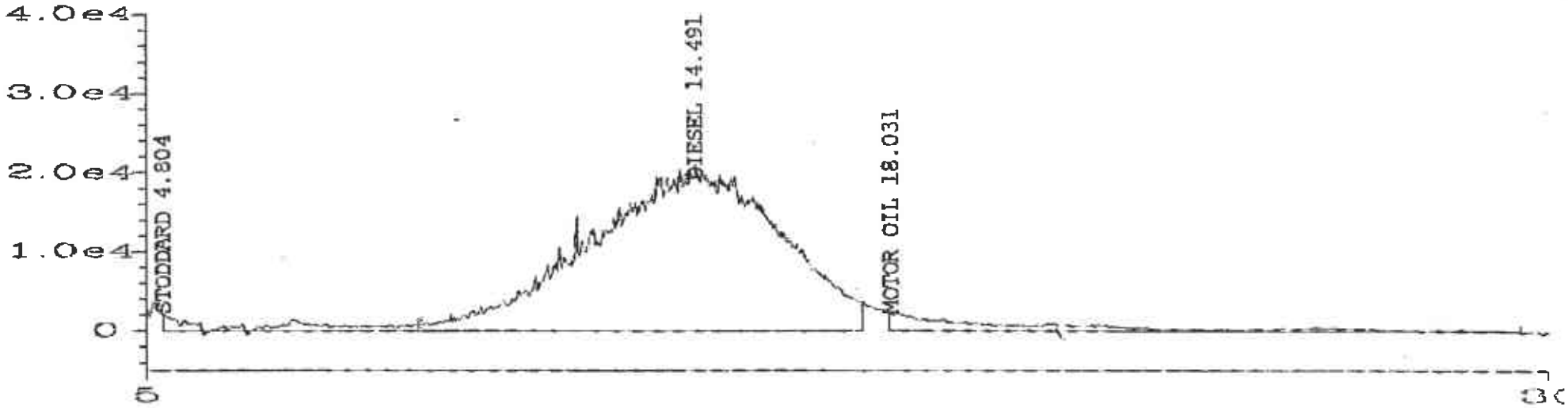
1. na: not analyzed
2. PQL=DF x MDL
3. TPH-Motor Oil chromatogram for Lab #B11198, although within the reporting range, does not match the typical Motor Oil pattern
4. Sample filtered prior to analysis
5. Analysis performed by Hull Development Labs, Inc. (CAELAP #1369)

Michael N. Golden, Lab Director

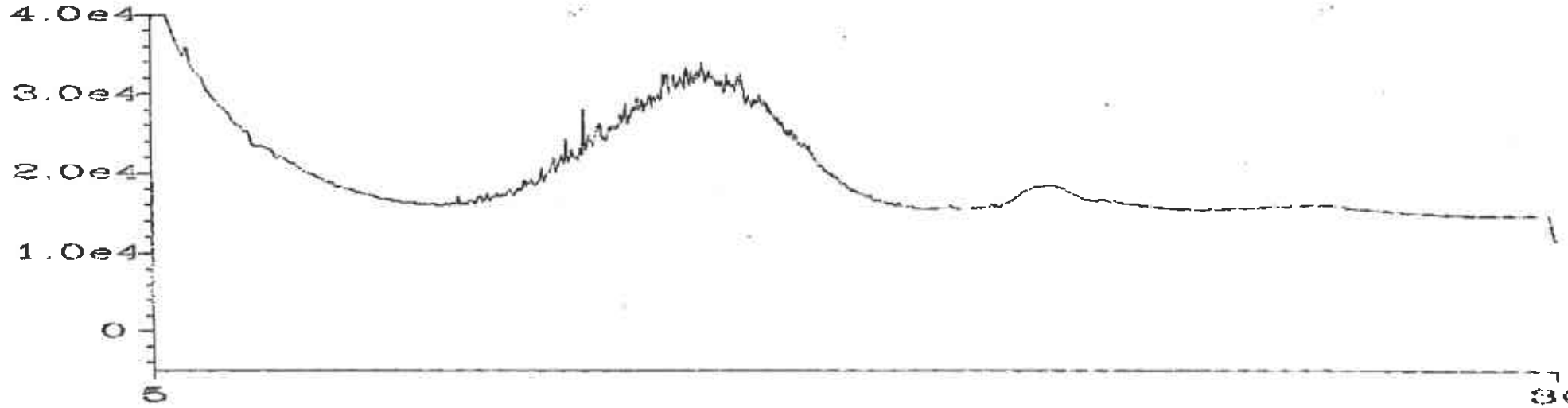
DF=Dilution Factor
MDL=Method Detection Limit

PQL=Practical Quantitation Limit
ND=None Detected at or above PQL

*Environmental Analysis Since 1983*




Chromatographic Diff.




Sig. 1 in C:\HPCHEM\1\DATA\DEA16302.D

## External Standard Report

Data File Name : C:\HPCHEM\1\DATA\DEA15302.D
Operator : MARIO B. LARI
Instrument : ANALYZER1
Sample Name : 11198
Run Time Bar Code:
Acquired on : 27 Oct 95 02:17 PM
Report Created on: 27 Oct 95 02:49 PM
Last Recalib on : 18 OCT 95 02:02 PM
Multiplier : 2

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: DSTEST.MTH
Analysis Method : DSTEST.MTH
Sample Amount : 1
ISTD Amount : 1

Sig. 1 in C:\HPCHEM\1\DATA\DEA15302.D

| Ret Time | Area | Type | Width | Ref# | Amount % | Name |
|---|---|---|---|---|---|---|
| 7.125 | * not found * | | | 1 | | STODDARD |
| 13.254 | * not found * | | | 1 | | DIESEL |
| 23.750 | * not found * | | | 1 | | MOTOR OIL |

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Page Number : 1
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Injection Number : 1
Sequence Line : 1
Instrument Method: DSTEST.MTH
Analysis Method : DSTEST.MTH
Sample Amount : 1
ISTD Amount : 1

Chromatographic Diff.

| Ret Time | Area | Type | Width | Ref# | Amount % | Name |
|---|---|---|---|---|---|---|
| 4.804 | 192749 | MM | 1.067 | 1 | 7915.805 | STODDARD |
| 14.491 | 4904491 | MM | 3.888 | 1 | 195865.7 | DIESEL |
| 18.031 | 324382 | MM | 2.434 | 1 | 17226.62 | MOTOR OIL |

Not all calibrated peaks were found

User Modified