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**LETTER OF TRANSMITTAL**

TO: Mr. Tom Peacock  
Alameda County Environmental Health Department  
Hazardous Materials Unit  
80 Swan Way, Room 200  
Oakland, California 94621

DATE: June 9, 1988  
PROJECT: Lawrence Dairy  
SCI JOB NUMBER: 433.001

SUBJECT:

**WE ARE SENDING YOU:**

- 1 copies
- |   |   |
|---|---|
| <input type="checkbox"/> of our final report              | <input checked="" type="checkbox"/> if you have any questions, please call. |
| <input type="checkbox"/> a draft of our report            | <input checked="" type="checkbox"/> for your review and comment.            |
| <input type="checkbox"/> a Service Agreement              | <input type="checkbox"/> Please return an executed copy.                    |
| <input type="checkbox"/> a proposed scope of services     | <input type="checkbox"/> for geotechnical services.                         |
| <input type="checkbox"/> specifications                   | <input type="checkbox"/> with our comments.                                 |
| <input type="checkbox"/> grading/foundation plans         | <input type="checkbox"/> with Chain of Custody documents.                   |
| <input type="checkbox"/> soil samples/groundwater samples | <input type="checkbox"/> for your use.                                      |
| <input type="checkbox"/> an executed contract             | <input type="checkbox"/>  |
| <input checked="" type="checkbox"/> Soil Sample Analysis  | <input type="checkbox"/>  |

**REMARKS:**

As per our discussison, here is a copy of the letter recording our services and analytical test results.

**COPIES TO:**

BY: Jerriann Alexander  
Jerriann Alexander (initials)

**Subsurface Consultants, Inc.**

171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 415-268-0461

June 9, 1988  
SCI 433.001

Mr. Stephen Wolf  
Coordinated Services  
1272 Second Avenue  
San Francisco, California 94122

Soil Sample Analysis  
Lawrence Dairy  
23555 Saklan Street  
Hayward, California

Dear Mr. Wolf,

This letter transmits the results of analytical tests performed on soil samples obtained from below an underground storage tank removed from the referenced site. Subsurface Consultants, Inc. (SCI) observed the steel tank being removed on May 27, 1988.

The underground storage tank had a reported capacity of about 6000 gallons. The tank was approximately 6 feet in diameter and 28 feet long. The bottom of the tank was situated about 10 feet below the existing ground surface.

#### Soil Sampling

Following tank removal, two samples of the native soils were obtained from the bottom of the excavation. The samples were obtained from just below the interface of the backfill and native soil. One sample was taken from directly below the north end of the tank where the fill pipe was situated; the other was taken from below the center of the tank.

Soil was brought to the surface using the bucket of a backhoe. About 3 inches of soil was cut away and a clean brass tube was driven into the soil. The sample tube ends were subsequently covered with aluminum foil, plastic caps and then sealed with tape. The samples were refrigerated in an ice chest and remained so until delivery to the analytical laboratory.

#### Analytical Testing

The soil samples were transmitted, along with appropriate chain of custody documents, to Superior Analytical Laboratory, Inc., a laboratory certified by the California Department of Health Services to conduct hazardous waste and water testing. The samples were tested for total petroleum hydrocarbons (TPH) using

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modified EPA Method 8015. The results of the analyses are summarized in the following table. The laboratory test report is attached.

<u>Sample Identification</u>	<u>TPH Concentration (mg/kg)<sup>1</sup></u>
North end of tank	24144
Center of tank	2076

<sup>1</sup>mg/kg = milligrams/kilogram = parts per million = ppm

It is interesting to note that although the tank was reported to most recently contain leaded gasoline, the analytical tests indicate that the contamination largely consists of a product having the characteristics of diesel fuel.

#### Conclusions

The test results indicate that hydrocarbon concentrations are relatively high in the soil below the tank. The concentrations are considered indicative of past tank and/or associated piping leakage.

From a regulatory standpoint, once soil contamination resulting from an underground storage tank has been identified at a site, the owner is required to promptly file an "Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report", a copy of which is attached. This form notifies the local tank permitting agency, the State Water Resources Control Board, the local Regional Water Quality Control Board, and the County that a leak or contamination has been discovered at a site. For your convenience, we have partially completed the form.

At this time it is difficult to speculate as to the extent of remedial action that may be required due to the lack of data regarding (1) the lateral and vertical extent of contamination, and (2) whether groundwater has been impacted. Based on a conversation with Mr. Tom Peacock of the Alameda County Environmental Health Department (ACEHD), it is likely the county will require that contaminated soil containing TPH concentrations in excess of 100 ppm be removed. It is also possible that the Regional Water Quality Control Board will require a groundwater monitoring well be installed so that groundwater samples can be obtained and analyzed to evaluate the impact of contamination on groundwater.

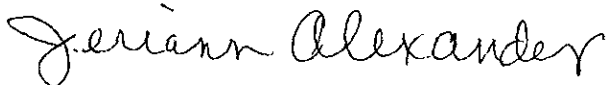
We suggest that the attached "Underground Storage Tank

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Unauthorized Release (Leak)/Contamination Site Report" form be completed at this time. The tank owner should retain the last sheet of the form for their files and forward the remaining sheets along with a copy of this letter to Mr. Tom Peacock of the ACEHD.

We will be pleased to assist you in investigating the problem and developing plans for site remediation. Please call if you have any questions.

Yours very truly,  
Subsurface Consultants, Inc.



Jeriann Alexander  
Civil Engineer 40469

JNA:RWR:ggm

Attachments: Lab Test Report  
Underground Storage Tank Unauthorized Release (Leak)  
/Contamination Site Report

2 copies submitted

# Subsurface Consultants

## CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: LAWRENCE DIARY  
SCI Job Number: 433.001  
Project Contact at SCI: JERI ALEXANDER  
Sampled By: JERI ALEXANDER  
Analytical Laboratory: SUPERIOR ANALYTICAL LABORATORY, INC  
Analytical Turnaround: \_\_\_\_\_

Sample ID	Sample Type <sup>1</sup>	Container Type <sup>2</sup>	Sampling Date	Hold	Analysis	Analytical Method
<u>N-FILL END</u>	<u>S</u>	<u>T</u>	<u>5/27/88</u>		<u>TPH</u>	<u>EPA 8015</u>
<u>CENTER TANK</u>	<u>S</u>	<u>T</u>	<u>5/27/88</u>		<u>TPH</u>	<u>EPA 8015</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
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\* \* \* \* \*

Released by: JERI ALEXANDER Date: 5/31/88  
Released by Courier: \_\_\_\_\_ Date: \_\_\_\_\_  
Received by Laboratory: John Hard Date: 5/31/88  
Relinquished by Laboratory: \_\_\_\_\_ Date: \_\_\_\_\_  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_

<sup>1</sup> Sample Type: W = water, S = soil, O = other (specify)  
<sup>2</sup> Container Type: V = VOA, P = plastic, G = glass, T = brass tube, O = other (specify)

Notes to Laboratory:  
-Notify SCI if there are any anomalous peaks on GC or other scans  
-Questions/clarifications...contact SCI at (415) 268-0461

**SUPERIOR ANALYTICAL LABORATORY, INC.**

1385 FAIRFAX ST., STE D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

**C E R T I F I C A T E   O F   A N A L Y S I S**

LABORATORY NO. 50182  
CLIENT: Subsurface Consultants  
CLIENT ID: Lawrence Dairy

DATE RECEIVED: 5/31/88  
DATE REPORTED: 6/2/88  
JOB NO.: 433.001

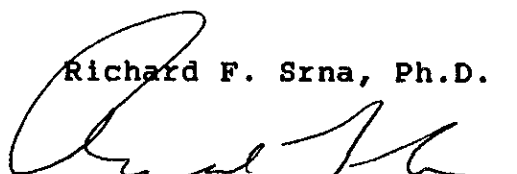
**ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS  
by Modified EPA SW-846 Method 8015**

<b>Sample Identification</b> -----	<b>Concentration (mg/kg)</b> -----
N - Fill End	24144 Diesel
Center Tank	2076 Diesel range

QA/QC Summary: N - Fill End Duplicate RPD - 14.3%

mg/kg = part per million (ppm)

Richard F. Srna, Ph.D.



Laboratory Manager

*OUTSTANDING QUALITY AND SERVICE*