

ALAMEDA COUNTY
HEALTH CARE SERVICES

DAVID J. KEARS, AGENCY

~~CAROLYN DESTER~~, Agency Director



Telephone Number:(415) 271-4320

Certified Mailer #: P 833 981 168

January 26, 1989

Mr. Leonard Vinci
County Recycling
c/o P.O. Box 4204
Oakland, Ca. 94614

Dear Mr. Vinci:

We have received and reviewed the analytical results for the soil sample collected roughly 5 feet below ground surface in the area beneath the former underground storage tank piping. The soil sample contained 2000 ppm total petroleum hydrocarbons as gasoline. To remediate and assess the extent of this contamination, we require that you submit a work plan addressing the following items; all work must be performed according to the Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, 2 June 1988 (hereafter referred to as "2 June 1988 RWQCB document"):

- 1) Collection of soil samples to determine vertical and lateral extent of soil contamination (see also the LUFT manual for details concerning soil sampling). During drilling of all boreholes and monitoring wells, soil samples are to be taken at a minimum of every five feet in the unsaturated zone and at any changes in lithology. Soil samples are to be analyzed by a California State Certified Laboratory for the appropriate constituents (see Table 2, 2 June 1988 RWQCB document, attached).
- 2) Installation of one monitoring well within 10 feet of the tank in the verified downgradient direction (see also the LUFT manual for details concerning monitoring well construction). If verified downgradient direction data is not available, then a minimum of three monitoring wells must be installed to determine the verified downgradient direction.
- 3) Sampling of the monitoring well and analysis of the sample for the appropriate constituents (see Table 2, attached). The well must also be tested for floating product by an optical probe or other method of equal accuracy.

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4) Remediation of contaminated soil. Soil contaminated with 1000 ppm or greater total petroleum hydrocarbons must be remediated. Soil having hydrocarbon levels between 100 and 1000 ppm must be either remediated or, if sufficient evidence is provided which indicates no adverse effects on groundwater will occur, left as is with implementation of a groundwater monitoring program. Cleanup of soils to less than 100 ppm is strongly recommended in order to minimize the impact of residual soil contamination on ground water quality.

Please submit this work plan within 45 days of receipt of this letter.

Enclosed is an "Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report" form which must be completed and returned within five working days. Please send the entire completed form to our office.

We wish to draw your attention to the following requirements set forth in the 2 June 1988 RWQCB document, page 2:

All work and reports which require geologic or engineering evaluations and/or judgements must be performed under the direction of an appropriately registered or certified professional (See sections 6735, 7835, and 7835.1 of the Business and Professions Code). Also Rule 415 of the Professional and Vocational Regulations is to be followed. This rules states:

A professional engineer...registered or licensed under this Code shall practice and perform engineering...work only in the field or fields in which he is by education and/or experience fully competent and proficient.

A statement of qualifications for each lead professional should be included in all reports. Initial tank removal and soil sampling does not require such expertise; however, borehole and monitoring well installation and logging, and impact assessments do require such a professional.

All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and to:

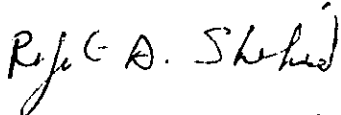
Don Dalke
Toxics Cleanup, Underground Tank Section
Regional Water Quality Control Board
1111 Jackson Street
Oakland, California 94607
(415) 464-1255

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To cover our costs for remediation review, please submit a check, payable to Alameda County, for \$500.

Should you have any questions concerning this letter, please contact Katherine Chesick, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,



Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:kac

cc w/ attachment (Table 2):

Robert Marcell, County Recycling Plant Manager
Patricia Shaterian, Land Owner

cc: Don Dalke, Regional Water Quality Control Board
Dwight Hoenig, State Department of Health Services
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
Katherine Chesick, AC Hazardous Materials Division
Files

attachments

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GC FID with a fused capillary column and prepared by EPA method 5030 for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractible hydrocarbons.

TETRAETHYLLEAD (TEL) may be analyzed as total lead. However, a confirming analysis must be completed using a soil sample at the same soil depth in another borehole, or for water, from an upgradient well that is not contaminated with hydrocarbons.

CHLORINATED HYDROCARBONS (CL HC) and BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020, respectively, (or 8240) and for water 601 and 602, respectively, (or 624).

OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used.

Notes:

- To avoid false positive detection of benzene, benzene-free solvents are to be used. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
- For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
- For all analyses on Table #2, appropriate standards are to be used for the material stored in the tank. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
- Other methodologies are continually being developed (such as cryogenic focusing), and as they are accepted by EPA or DHS, they also can be used.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. Restricted Delivery
 ↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: Mr. Leonard Vinci County Recycling c/o P. O. Box 4204 Oakland, CA 94614	4. Article Number P833 981 168
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature — Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X <i>Patty Hill</i>	
7. Date of Delivery <i>2-2-89</i>	

PS Form 3811, Mar. 1987

★ U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

P 833 981 168

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

Form 3800, June 1985