

Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

• FREMONT

• COSTA MESA

SACRAMENTO

• HOUSTON

LETTER TRANSMITTAL

JOB NUMBER: 87091-2	SEND TO: Mr Joe Ferreira
DATE: MAy 23, 82	OF: San Leandro Fre Dept 875 East 16 1t. San Leandro, (A 965
ENCLOSURES	NO. OF COPIES
Lette Repair 87091-	
Lette Repair 87091-	Anolypes
at Unor State N	0 5367
500 Pancroft Are	Jan Leandro
COMMENTS:	

Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

• FREMONT

COSTA MESA

SACRAMENTO

HOUSTON

May 16, 1988 0516tros 87091-2

Mr. Tim Ross UNOCAL Corporation 2175 North California Boulevard, Suite 650 Walnut Creek, California 94596

Subject: Letter Report No. 87091-2 regarding subjective ground-

water analyses at UNOCAL Station No. 5367, 500 Bancroft

Avenue, San Leandro, California.

Mr. Ross:

This letter report summarizes the results of ground-water monitoring by Applied GeoSystems at the above-referenced site. The site is located on the southeast corner of the intersection of Dowling Boulevard and Bancroft Avenue in San Leandro, as shown on the Site Vicinity Map, Plate P-1. UNOCAL requested that Applied GeoSystems monitor ground water at the site after floating product was detected in the well. The monitoring well was constructed in September 1987 (Applied GeoSystems Report, dated December 13, 1987).

A geologist from Applied GeoSystems arrived at the site on April 27, 1988, to collect a water sample and subjectively analyze the water from monitoring well MW-1. The location of the well is shown on the Generalized Site Plan, Plate P-2. A water sample was collected from the well to check for visual evidence of hydrocarbon contamination. The total depth of the well is 35.04 feet, and the depth to the water table is 32.40 feet below the top of the well casing. The sample was collected by gently lowering a portion of a cleaned Teflon bailer past the air/water interface and collecting a sample from the surface of the water in the well. Subjective analysis of the water sample showed approximately 0.01-foot of floating product in the well. Cumulative results of this and previous monitoring events are presented in Table 1.

We recommend that 1) a soil vapor survey be conducted in the vicinity of the contamination and 2) that three or more boreholes be drilled and ground-water monitoring wells installed in the boreholes. The locations of the wells should be selected based on the results of the soil vapor survey. These wells are necessary to characterize the vertical and lateral extent of the soil and ground-water contamination, establish the lateral extent of hydrocarbon contamination, and evaluate a local ground-water gradient. Ground water in the existing well should be sampled fortnightly to monitor the thickness of the floating product. We also recommend that local ground-water use be studied and neighboring wells be identified and located.

Copies of this report should be forwarded to Mr. Joe Ferreira at the San Leandro Fire Department, 835 East 14th Street, San Leandro, California 94577, and to Mr. Greg Zentner at the California Regional Water Quality Control Board, San Francisco Bay Region, 1111 Jackson Street, Room 6040, Oakland, California 94607. Please do not hesitate to contact us if you have any questions regarding the contents of this letter.

Sincerely, Applied GeoSystems

John T. Lambert Project Geologist

Gillian S. Holmes

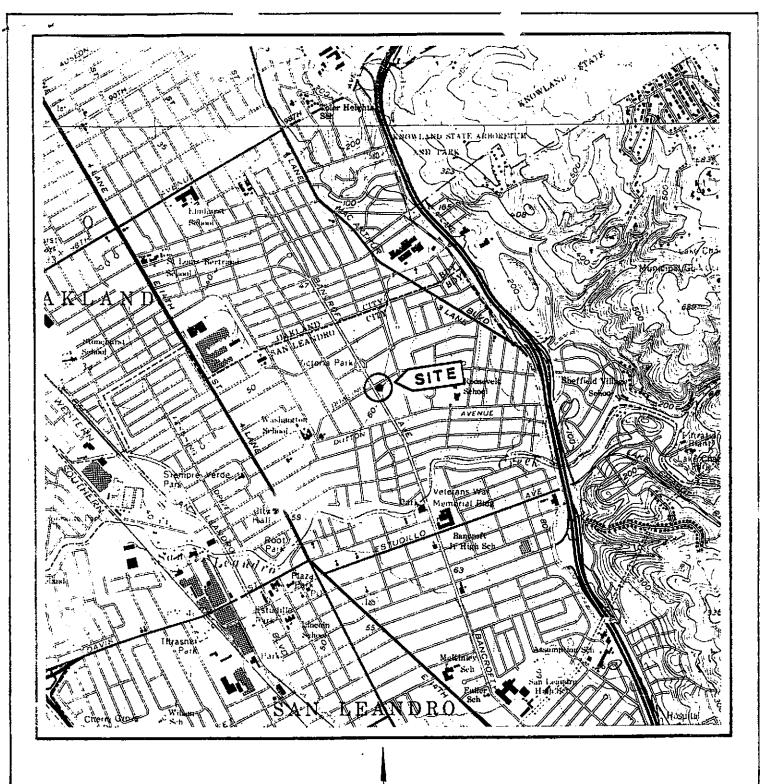
Gillian S. Holmes G.E. 2023

Enclosures: Site Vicinity Map, Plate P-1

Generalized Site Plan, Plate P-2

Cumulative Results of Ground-Water Monitoring,

Table 1



Source: U.S. Geological Survey 7.5-Minute Quadrangle San Leandro, California Oakland West, Califonia Photorevised 1980 Approximate Scale
2000 1000 0 2000 4000
feet

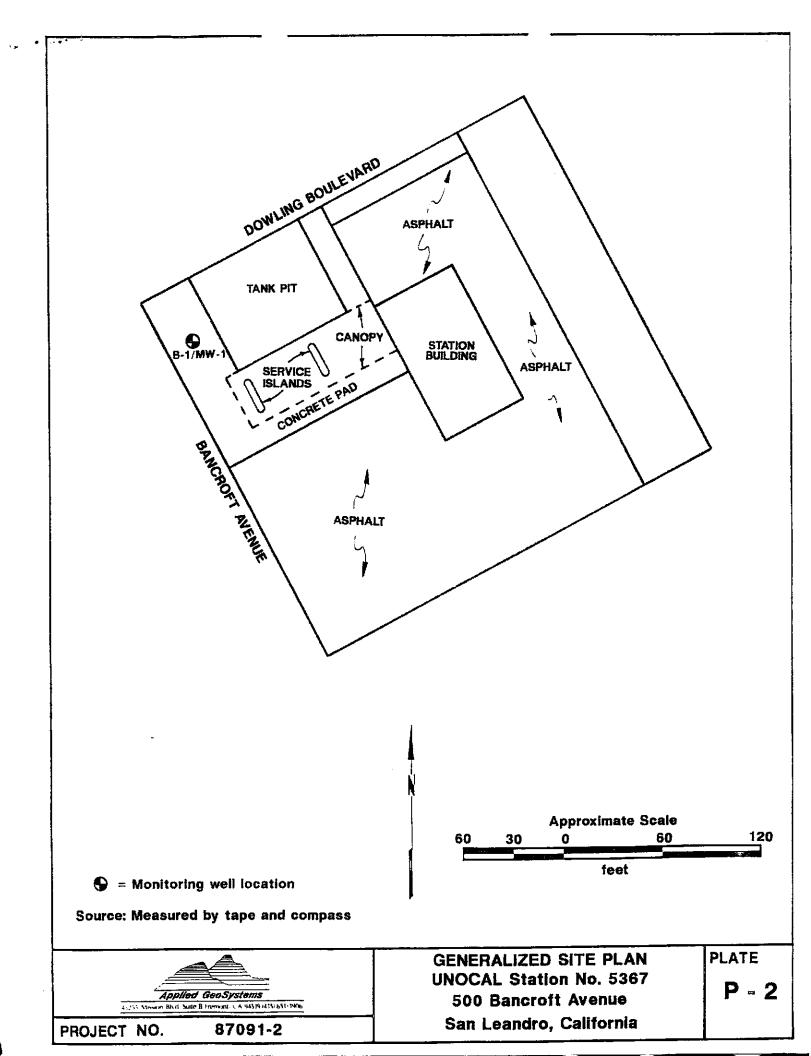


PROJECT NO.

87091-2

SITE VICINITY MAP UNOCAL Station No. 5367 500 Bancroft Avenue San Leandro, California PLATE

P - 1



CUMULATIVE	TABLE 1 RESULTS OF GROUND-WATER UNOCAL Station No. 5367 500 Bancroft Avenue San Leandro, California	MONITORING
Data	Product	Thickness

Date	Product Thickness	
9/23/87	0.02	
9/25/87	0.01	
10/6/87	0.01	
11/5/87	0.31	
11/13/87	0.38	
11/19/87	0.06	
4/27/88	0.01	