Mobil Oil Corporation

3800 WEST ALAMEDA AVENUE, SUITE 700
BURBANK, CALIFORNIA 91505-4331

February 23, 1987

UG TANKS

Mr. Peter Johnson
Regional Water Quality Control Board
1111 Jackson Street, Room 6040
Oakland, California 94607

MOBIL OIL CORPORATION
S/S #10-L1X
15884 HESPERIAN BLVD.
SAN LORENZO, CALIFORNIA

Dear Mr. Johnson:

Enclosed for your information and records is our consultant's progress report on the above location. Dissolved constituents of petroleum hydrocarbons are still present in two of the four monitoring wells.

If you have any questions, please call C. E. Galloway of my office at (818) 953-2519.

Sincerely,

R. J. Edwards
Region Environmental Manager

CEG:ars
enclosure
83580

cc: Mr. T. M. Gerow
Division of Environmental Health
Alameda County
470 27th Street, Room 324
Oakland, California 94612

RECEIVED
FEB 27 1987
ENVIRONMENTAL HEALTH
ADMINISTRATION

KAPREALIAN ENGINEERING, INC.
Consulting Engineers
535 Main Street
Martinez, Ca. 94553
(415) 372-5444

KEI-P86-0310B-1
February 5, 1987

Mobil Oil Corporation
P.O. Box 127
Richmond, CA 94807

Attention: Mr. T. Ross

Re: Quarterly Report - Mobil S/S #10-LIX
Located at 15884 Hesperian Boulevard,
San Lorenzo, California

Dear Mr. Ross:

This report presents the results of the first quarterly report of monitoring and sampling for the referenced Mobil service station. The site is currently monitored monthly and water sampled on a quarterly schedule, in order to comply with the California Regional Water Quality Control Board's (CRWQCB) regulations. This report covers the monitoring and sampling program through the December 1986 site visit.

BACKGROUND

In March 1986, Kaprealian Engineering, Inc. (KEI) conducted soil sampling during underground tank removal. Initial soil sampling did indicate gasoline contamination in the soil below the tank which exceeded the limits set by CRWQCB. A program of mitigation was initiated in July 1986, by installing four (4) monitoring wells. The purpose was to assess the extent of subsurface contamination below the site. Preliminary subsurface assessment revealed presence of dissolved hydrocarbon concentrations in the shallow groundwater. The results of the chemical analyses are shown in Table 1 (attached).

WELL MONITORING AND SAMPLING

Monitoring wells 1 through 4 were checked monthly for depth to water, odor and visual presence of gasoline product. No free product was noted in any of the wells except faint odor detected in well #2. The wells were purged on a monthly basis. On December 23, 1986, KEI collected water samples for chemical analyses. The laboratory results indicated total dissolved hydrocarbon concentrations ranging from 4.1 parts

per million (ppm) to non-detectable level; Benzene concentrations were 0.9 ppm to non-detectable level; Toluene concentrations were 0.096 ppm to non-detectable level and Xylene concentrations were 0.75 to non-detectable level respectively.

A comparison with the laboratory analyses of these wells conducted in August 1986, showed a slight increase in the gasoline dissolved constituents in well #1 only. Well #2 showed decrease in dissolved hydrocarbon concentrations. Well #3 and #4 showed non-detectable limits of dissolved hydrocarbon concentrations. The laboratory results are shown in Table 1.

In summary, as of December 23, 1986, monitoring the wells has detected no free floating product at the site. The water analyses showed a slight increase in the dissolved hydrocarbon concentrations in well #1 and a substantial decrease of dissolved hydrocarbon concentrations in well #2. No changes were detected in wells #3 and #4.

Based on the recent water analyses indicating presence of low dissolved hydrocarbons, KEI recommends that the present program of monitoring/sampling schedule be continued. This program should then be re-evaluated after the next water sampling.

Please call me at (415) 228-1882 if you have any questions about this report.

Sincerely,

Mardo Kaprealian

MK/ks

Attachment: Table 1
Analytical Results
Laboratory Analyses
Site Plan

cc: C. Galloway

KEI-P86-0310B-1
February 5, 1987

TABLE 1

Results of the Groundwater Analyses
In Parts Per Million (ppm)

Date	Parameter	Well #1	Well #2	Well #3	Well #4
8/18/86	Total Dissolved Hydrocarbons	<0.05	58	<0.05	<0.05
	Benzene	<0.001	4.3	<0.001	<0.001
	Toluene	<0.001	0.39	<0.001	<0.001
	Xylene	<0.001	1.8	<0.001	<0.001
12/23/86	Total Dissolved Hydrocarbons	0.077	4.1	<0.05	<0.05
	Benzene	0.032	0.97	<0.0005	<0.0005
	Toluene	0.0047	0.096	<0.0005	<0.0005
	Xylene	0.0020	0.75	<0.0005	<0.0005

Monitoring Wells

Date	Well No.	DTW (ft.)	PT (inch)	Odor	Sheen
10/28/86	1	14.00	0.0	No	No
	2	13.0	0.0	Faint	No
	3	14.0	0.0	No	No
	4	14.0	0.0	No	No
11/26/86	1	14.0	0.0	No	No
	2	13.33	0.0	Faint	No
	3	14.17	0.0	No	No
	4	14.0	0.0	No	No
12/23/86	1	13.50	0.0	No	No
	2	12.92	0.0	Faint	No
	3	13.75	0.0	No	No
	4	13.48	0.0	No	No

DTW - Depth to Water
PT - Product Thickness

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 12/23/86
Date Received: 12/23/86
Date Reported: 01/06/87

Sample Number
6121569

Sample Description
Mobil - 15884 Hesperian in San Lorenzo, MW#1, Water

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Hydrocarbons	50	77
Benzene	0.5	32
Toluene	0.5	4.7
Xylenes	0.5	20

NOTE: Analysis was performed using EPA method 602.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

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535 Main Street, Suite 309
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President

Date Sampled: 12/23/86
Date Received: 12/23/86
Date Reported: 01/06/87

Sample Number

6121570

Sample Description

Mobil - 15884 Hesperian in San Lorenzo, MW#2, Water

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Hydrocarbons	50	4100
Benzene	0.5	970
Toluene	0.5	96
Xylenes	0.5	750

NOTE: Analysis was performed using EPA method 602.

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Date Sampled: 12/23/86
Date Received: 12/23/86
Date Reported: 01/06/87

Sample Number
6121571

Sample Description
Mobil - 15884 Hesperian in San Lorenzo, MW#3, Water

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Hydrocarbons	50	< 50
Benzene	0.5	< 0.5
Toluene	0.5	< 0.5
Xylenes	0.5	< 0.5

NOTE: Analysis was performed using EPA method 602.

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Kaprealian Engineering, Inc.
535 Main Street, Suite 309
Martinez, CA 94553
Attn: Mardo Kaprealian, P.E.
President

Date Sampled: 12/23/86
Date Received: 12/23/86
Date Reported: 01/06/87

Sample Number

6121572

Sample Description

Mobil - 15884 Hesperian in San Lorenzo, MW#4, Water

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Hydrocarbons	50	< 50
Benzene	0.5	< 0.5
Toluene	0.5	< 0.5
Xylenes	0.5	< 0.5

NOTE: Analysis was performed using EPA method 602.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

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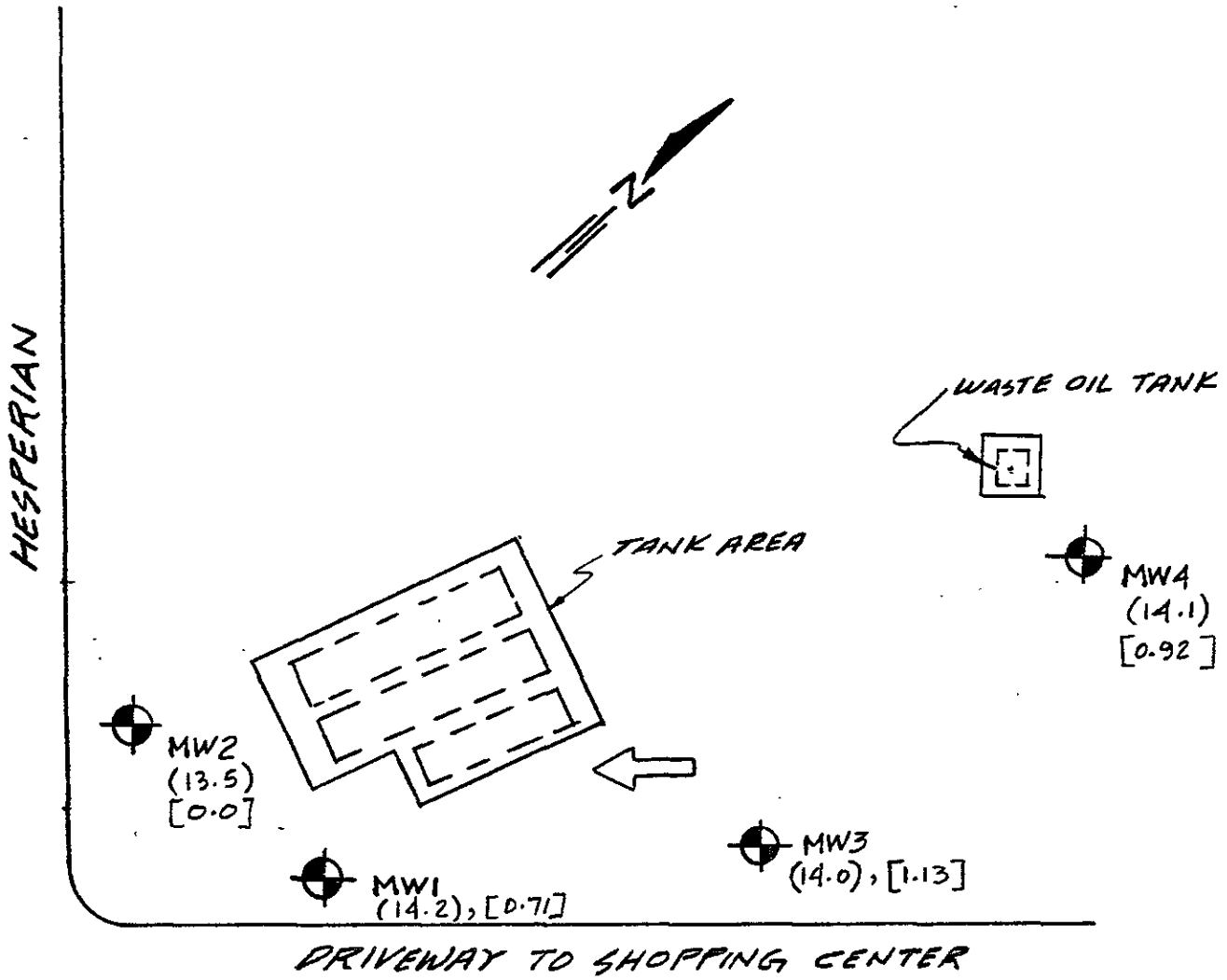

LOCATION PLAN

N.T.S.

⊕ MW (MONITORING WELL)

( ) DEPTH (IN FT.) OF WATER FROM SURFACE

[ ] RELATIVE SURFACE ELEVATION IN (FT.)

⇨ GENERAL DIRECTION OF GROUND-WATER FLOW