Paradiso Mechanical, Inc. P.O. Box 1836 2600 Williams Street San Leandro, California 94577

Attention: Mr. Rick Montesano

RE: Quarterly Report

Berkeley Land Company

51st Street & Telegraph Avenue

Oakland, California

Dear Mr. Montesano:

This Kaprealian Engineering, Inc. (KEI) report presents the results of the recent quarter of monitoring and sampling of the monitoring wells at the referenced site. This report also describes the destruction of one monitoring well. The wells are currently monitored and sampled on a quarterly basis. This report covers the work performed by KEI during February of 1996.

BACKGROUND

The subject property was reported to have contained a 'street car barn' for the "Key System," a former regional public transit system. All buildings and above ground improvements have been removed from the property. Five on-site monitoring wells (MW1 through MW5) exist at the site. Twenty-one exploratory borings (EB1 through EB6A, and EB6B through EB20) were drilled and sampled by KEI at the site on July 26 through July 30, 1993. Soil sampling and excavation was conducted by KEI at and around the locations of seven of these exploratory borings (EB3, EB6A, EB6B, EB8, EB15, EB16, and EB20) during September and October of 1993. Approximately 1,500 gallons of ground water were pumped from the excavation in the vicinity of exploratory boring EB3. Three 500 gallon underground fuel storage tanks were removed from the site in October of 1995.

KEI's extensive file reviews at the Regional Water Quality Control Board (RWQCB) and site reconnaissance indicate that a number of nearby sites, including two dry cleaners, two service stations, and a public utility facility, are situated within 100 to 1,000 feet of the subject Berkeley Land Company (BLC) site. The file reviews indicate that a regional volatile organic compounds (VOC) problem appears to exist in the upgradient vicinity of the subject BLC property.

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A site description, detailed background information including a summary of all of the soil and ground water subsurface investigation/remediation work conducted to date, site hydrogeologic conditions, and tables that summarize all of the soil and ground water sample analytical results are presented in KEI's reports (KEI-P93-0603.R2, KEI-P93-0603.R3, and "Site Investigation Summary Report") dated November 9, 1993, February 8, 1996, and February 8, 1994, respectively.

In a letter dated March 2, 1994, the Alameda County Health Care Services (ACHCS) Agency noted that the site no longer posed a threat to human health. The ACHCS also acknowledged the potential for a regional VOC contaminant plume upgradient of the BLC property and directed the implementation of a quarterly ground water monitoring and sampling plan for the subject site, for one year, in order to address this issue. On March 16, 1994, KEI submitted a work plan/proposal (KEI-P93-0603.P3) for the implementation of a ground water monitoring and sampling program.

RECENT FIELD ACTIVITIES - MONITORING AND SAMPLING

The four wells (MW1, MW2, MW3, and MW5) were monitored and sampled once during the quarter. Monitoring well (MW4) was inaccessible due to the presence of stockpiled soil on top of the well. During monitoring, the wells were checked for depth to water and the presence of any free phase product. Prior to sampling, the wells were also checked for the presence of a sheen. No free product or sheen was noted in any of the wells during the quarter. The monitoring data collected this quarter are summarized in Table 1.

Water samples were collected from the wells on February 19, 1996. Prior to sampling, the wells were each purged of between 6 and 11 gallons of water by the use of a pump. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded and are presented in Table 2. Once the field parameters were observed to stabilize and a minimum of approximately four casing volumes had been removed from each well, water samples were then collected by the use of a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflonlined screw caps and stored in a cooler, on ice, until delivery to the state-certified laboratory.

RECENT FIELD ACTIVITIES - WELL DESTRUCTION

On February 29, 1996, MW3 was destroyed in accordance with KEI's work plan (KEI-P93-0603.P4) dated February 16, 1996. The former well, designated as MW3 on the attached Figure 1, extended to a

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total depth of 28.5 feet below grade, and was proposed to be destroyed due to site development. MW3 was destroyed by fully drilling out the existing well seal, well casing, and filter pack sand material. The borehole was then pressure grouted from the total depth drilled to the surface with neat cement grout using 1.5-inch diameter PVC tremie pipe plumbed with flexible hose to the grout pump.

HYDROLOGY

The measured depth to ground water at the site on February 19, 1996, ranged between 12.48 and 16.07 feet below the top of the well casings. Based on the water level data gathered on that date, the ground water flow direction appeared to be west-southwest, as shown on the attached Figure 1. The flow direction reported this quarter is generally similar to the previous five quarters. The hydraulic gradient at the site on February 19, 1996, was approximately 0.02 in the predominant direction of flow, based on the water level data collected from the monitoring wells prior to purging.

ANALYTICAL RESULTS

The ground water samples were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020, total oil and grease (TOG) by Standard Methods 5520B&F, and EPA method 8010 constituents. In addition, the ground water sample from monitoring well MW5 was also analyzed for TPH as kerosene by EPA method 3510/modified 8015.

The ground water sample analytical results are summarized in Tables 3 and 4. Copies of the laboratory analytical results and Chain of Custody documentation are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results of the ground water samples collected and evaluated to date, and no evidence of free product or sheen in any of the wells, KEI recommends the continuation of the current monitoring and sampling program. The four existing wells (MW1, MW2, MW4, and MW5) are monitored and sampled quarterly. Ground water samples are analyzed for TPH as gasoline, BTEX, TOG, and EPA method 8010 constituents. Samples collected from MW5 are also analyzed for TPH as kerosene.

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As discussed previously, monitoring well MW3 was properly destroyed during the quarter in order to allow commercial site development in the vicinity of the former well. As seen in the attached Tables 2 and 3, concentrations of dissolved constituents in the subject well have historically been relatively low or non-detectable. Therefore, KEI does not recommend replacement of MW3 at this time.

In previous reports, KEI discussed the results of our file reviews. The file reviews indicate that a volatile organic compounds (VOC) problem appears to exist in the upgradient vicinity, and may have impacted the ground water at the subject site.

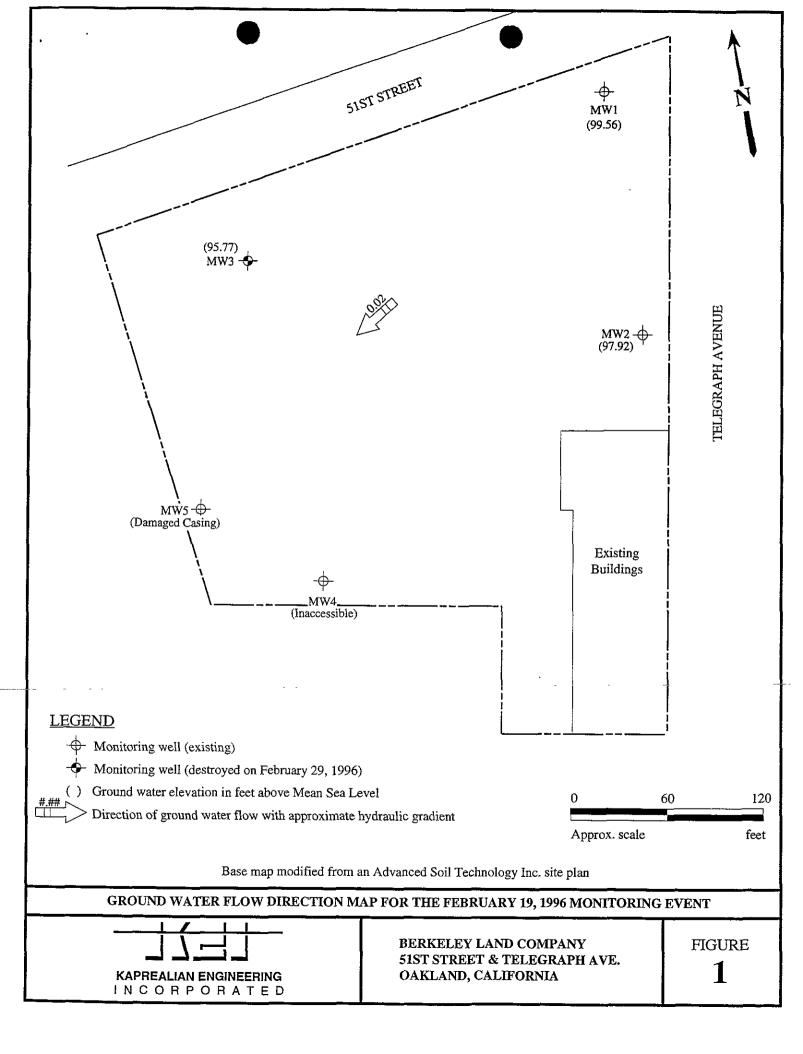
This site appears to meet the "low risk" criteria for petroleum hydrocarbons as described in the recent RWQCB interim guidelines and Senate Bill SB-1764. The specific criteria that appears to qualify this site as a low risk include:

- Source removal has been conducted at the subject site.
- The extent of hydrocarbon impacted soil and ground water appears to be well defined.
- No significant migration of dissolved hydrocarbons appears to be occurring.
- Based on the results of KEI's 1/2-mile radius well survey, no water producing wells were identified within 250 feet of the subject site. The nearest known water production well is approximately 1,000 feet from and in the cross-gradient direction of the site.

KEI will review the analytical results of the next quarterly sampling event. If the analytical results of the ground water samples are consistent with previous results, KEI will recommend that Berkeley Land Company petition for site closure from the regulatory agencies.

DISTRIBUTION

A copy of this report should be sent to Ms. Madhulla Logan of the ACHCS, and to the RWQCB, San Francisco Bay Region.



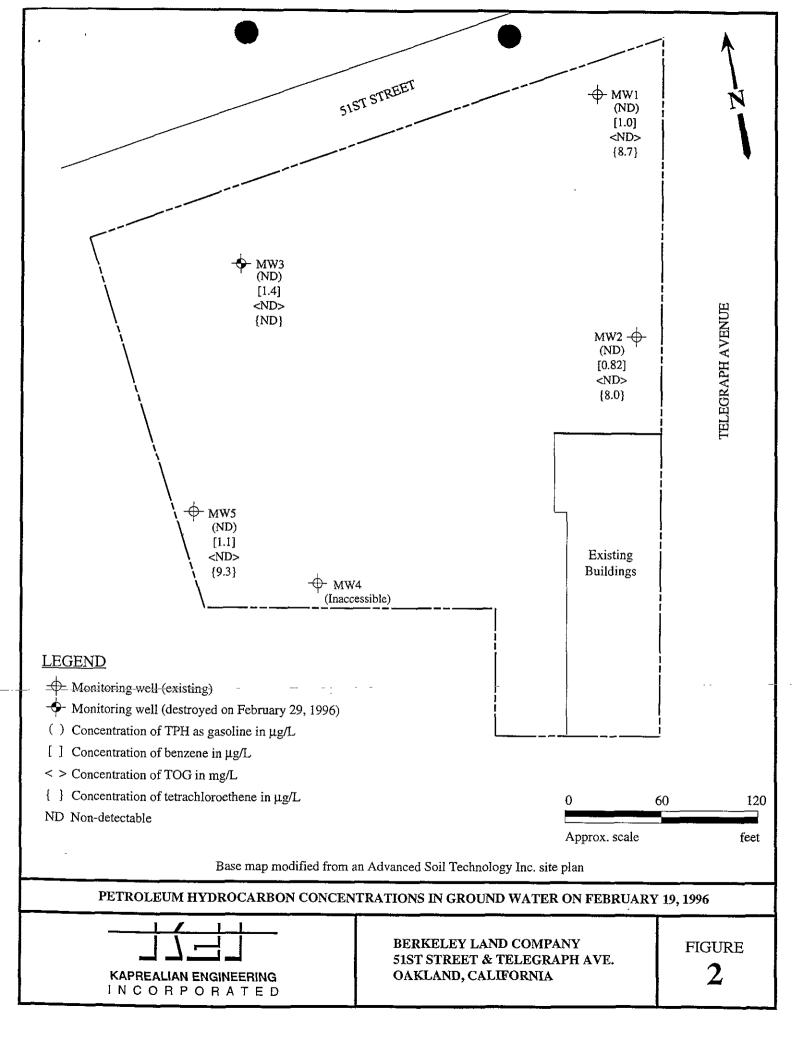


TABLE 1
SUMMARY OF MONITORING DATA

Well #	Ground Water Elevation (feet)	Depth to Water (feet)◆	Product Thickness (feet)	Sheen	Water Purged (gallons)	Well Depth (feet)◆
	(Monito	red and Sam	pled on Febr	cuary 19	, 1996)	
MW1	99.56	15.60	0	No	6	23.70
MW2	97.92	12.85	0	No	8	24.10
MW3	95.77	16.07	0	No	8.5	28.60
MW4	WELL WAS INAC	CESSIBLE				_0.00
MW5	**	12.48	0	No	11	28.53

Well #	Top of Casing Elevation (feet)*				
MW1	115.16				
MW2	110.77				
MW3	111.84				
MW4	108.00				
MW5	106.96				

[♦] The depth to water level and total well depth measurements were taken from the top of the well casings.

^{*} Based on the City of Oakland Benchmark #2874 (elevation = 116.41 feet MSL).

^{**} Damaged/bent casing.

TABLE 2

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND PH VALUES
IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on February 19, 1996)

				Casing			
	Gallons per		Gallons	Volumes	Temperature	Conductivity	
Well #	Casing Volume	<u>Time</u>	Purged	Purged	(°F)	$([\mu mhos/cm] \times 1000)$	<u>Hq (</u>

MWl	1.38	13:00	0 0	0	64.9	4.06	7.33
			1.5	1.09	64.5	4.11	7.38
			3	2.17	64.8	4.09	7.30
			4.5	3.26	65.1	4.15	7.29
		13:12	2 6	4.35	65.4	4.12	7.27
` MW2	1.91	13:45	5 0	0	65.9	4.41	6.90
			2	1.05	66.1	4.43	6.93
	-		4	2.09	66.5	4.40	7.01
			6	3.14	66.3	4.45	7.04
		13:58	8	4.19	66.7	4.44	7.07
EWM3	2.13	14:35	5 0	0	64.1	5.03	7.02
			2	0.94	63.9	5.09	7.06
			4	1.88	63.8	5.15	7.05
			6	2.82	63.6	5.11	7.06
		14:48	8.5	3.99	63.5	5.14	7.07
MW4	WELL WAS IN	ACCESS	SIBLE				
MW5	2.73	15:45	5 0	0	63.1	5.96	7.10
			2.5	0.92	62.8	5.97	7.12
			5	1.83	62.7	5.96	7.14
			8	2.93	62.5	6.03	7.14
•		16:00	11	4.03	62.2	6.05	7.15

TABLE 3
SUMMARY OF LABORATORY ANALYSES
WATER

	Sample	TPH as		TPH as			Ethyl-	
<u>Date</u>	Number	<u>Kerosene</u>	TOG	Gasoline	Benzene	Toluene	<u>benzene</u>	Xylenes
								27 201100
2/19/96	MW1		ND	ND	1.0	6.2	0.60	3.9
	MW2		ND	ND	0.82	4.8	0.52	3.5
	MW3		ND	ND	1.4	8.1	0.73	4.4
	MW4	WELL WA	S INA	CCESSIBLE				-
	MW5	ND	ND	ND	1.1	6.7	0.63	4.2
10/06/95	MT71		375					
10/00/95	MW1		ND	69♦	ND	ND	ND	ND
	MW2		ND	ND	ND	ND	ND	ND
	MW3		ND	ND	ND	ND	ND	ND
	MW4	· 	ND	ND	ND	ND	ND	ND
	MW5		ND	ND	ND	ND	ND	ND
9/18/95*	* MW1		ND	810	ND	ND	ND	MD
	MW2		ND	ND	ND	ND	ND	ND
	MW3		ND	ND	ND	ND	ND	ND ND
	MW4		ND	ND ·	ND	ND	ND	
	MW5		ND	ND	ND	ND	ND	ND
			2,2	112	ND	MD	מא	ND
8/24/95*	∲ MW1			63	ND	1.1	ND	0.86
	MW2			ND	ND	0.57	ND	0.56
	EWM.			ND	ND	0.50	ND	0.70
	MW4			ND	ND	0.53	ND	0.60
	MW5			ND	ND	0.81	ND	0.72
_							1.2	0.72
5/23/95	MW1		ND	100♦	ND	ND	NĐ-	ND -
	MW2		ND	ND	ND	ND	ND	ND
	MW3		ND	ND	ND	ND	ND	ND
	MW4		ND	ND	ND	ND	ND	ND
	MW5		ND	ND	ND	ND	ND	ND
2/25/95	MW1		ND	81♦	ND	ND	ND	ND
	MW2		ND	ND	ИD	ИD	ИD	ND
	MW3		ND	ND	ND	ND	ND	ND
	MW4		ND	ND	ND	ND	ND ·	ND
	MW5		ND	ND	ND	ND	ND	ND
6/29/93	MW1*		375	76.				
4/23/33	MW2*		ND	76 ♦	ND	ND	ND	ND
	MW3*		ND	ND	ND	ND	ND	ND
		\ - -	ND	ND	ND	ND	ND	ND
	MW4*		ND	ND	ND	ND	ND	ND
	MW5*		ND	ND	0.64	ND	ND	ND

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES WATER

- ♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- * TPH as diesel and all EPA method 8270 constituents were non-detectable.
- ** TOG was sampled on September 8, 1995, instead of August 24, 1995. Furthermore, the analytical results of the ground water samples (toluene and xylenes) collected on August 24, 1995, were inconsistent with the previous analytical results for these wells. Therefore, MPDS re-sampled these wells on September 18, 1995.

ND = Non-detectable.

-- Indicates analysis was not performed.

Results are in micrograms per liter (μ g/L), except for TOG, which is in milligrams per liter (mg/L).

TABLE 4
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Sample <u>Number</u>	cis-1,2-Dichloro- ethene	Tetrachloro- ethene	Trichloro- ethene	Vinyl <u>Chloride</u>	Chloroform
2/19/96	MW1	ND	8.7	ND	ND	2.9
	MW2	ND	8.0	, ND	ND	2.6
	MW3	ND	ND	ND	ND	ND
	MW4	WELL WAS INACCESSIBLE				
	MW5	2.1	9.3	1.9	ND	ND
10/06/95	MW1	1.7	19	3.7	ND	1.3
	MW2	ND	8.9	1.0	ND	5.9
	KW3	5.7	13	6.2	ND	1.1
	MW4	5.4	12	6.1	ND	0.53
	MW5	9.1	8.2	5.3	ND	ND
8/24/95	MW1	3.4	240	5.0	ND	3.2
	MW2*	ND	28	1.1	ND	15
	**EWM	5.1	50	9	ND	0.78
	MW4	ND	9.7	ND	ND	2.4
	MW5**	17	49	11	ND	ND
5/23/95	MW1	ND	450	ИД	ИД	ND
	MW2	ND	45	ND	ND	ND
	MW3	5.1	74	9.1	ND	ND
	MW4	ND	8.8	ND	ND	ND
	MW5	16	58	11	ND	ND
6/29/93	MW1	ND	250	ND	ND	ND
	MW2	ND	78	ND	ND	ND
	KW3	5.5	130	11	ND	ND
•	MW4	ND	16	0.68	ND	ND
	MW5	24	17	5.9	3.0	ND

TABLE 4 (Continued)

SUMMARY OF LABORATORY ANALYSES WATER

<u>Date</u>	Sample <u>Number</u>	cis-1,2-Dichloro- ethene	Tetrachloro- ethene	Trichloro- ethene	Vinyl <u>Chloride</u>	Chloroform
2/25/95	MW1	ND	360	ND	ND	ND
• •	MW2	ND	41	1.9	ND	ND .
	MW3	6.9	52	9.4	ND	ND
	MW4	ND	6.4	ND	ND	ND
	MW5	8.3	25	6.6	ИD	ND

All EPA method 8010 constituents were non-detectable, except for the above compounds.

- * 1,1,1-Trichlorethane was detected at a concentration of 0.73 μ g/L.
- ** Trans-1,2-Dichlorethene was detected at concentrations of 0.59 $\mu g/L$ and 0.76 $\mu g/L$ in MW3 and MW5, respectively.

ND = Non-detectable.

Results are in micrograms per liter (μ g/L), unless otherwise indicated.