

*Reviewed by
Has Not on
April 15 '94
A.*

KEI-P88-1110.QR2
December 20, 1993

Paradiso Construction
2600 Williams Street
P.O. Box 1836
San Leandro, CA 94577

Attention: Mr. Paul Paradiso

RE: Quarterly Report
Berkeley Land Company
23555 Saklan Road
Hayward, California

Dear Mr. Paradiso:

This report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by Kaprealian Engineering, Inc. (KEI). All of the wells are currently monitored monthly and sampled on a quarterly basis. This report covers the work performed by KEI in September and October of 1993.

BACKGROUND

The subject site occupies the northeast corner of the intersection of Saklan Road and Middle Lane in Hayward, California, and is situated approximately two miles from the shores of the San Francisco Bay. The site is located in a mixed light industrial and residential area. A Location Map is attached to this report. A large part of the site is used by Quality Tow, an automobile towing operation, for the storage of used vehicles.

In June of 1988, an underground fuel storage tank was removed from the site. On February 27, 1990, and March 1, 1990, two exploratory borings were drilled at the site. During the drilling of the borings, a six-inch diameter water well was discovered adjacent to the former underground fuel storage tank pit. On May 30, 1990, four exploratory borings were drilled and five monitoring wells installed at the site. On June 1 and 2, 1993, seven exploratory borings, in conjunction with a Hydropunch study, were drilled at the site. A total of 13 borings have been drilled and five monitoring wells have been installed at the site.

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 report (KEI-P88-1110.R2) dated July 12, 1993.

RECENT FIELD ACTIVITIES

The five monitoring wells (MW1 through MW5) were monitored twice and were sampled once during the quarter. Water well WW was also purged of a total of 161 ounces of product during the quarter. During monitoring, the monitoring wells were checked for depth to water and the presence of free product. Prior to sampling, the monitoring wells were also checked for the presence of a sheen. No free product or sheen was noted in any of the monitoring wells during the quarter; however, free product was noted in water well WW throughout the quarter. The monitoring data collected this quarter are summarized in Table 1.

Ground water samples were collected from all of the monitoring wells on October 28, 1993. Prior to sampling, the wells were each purged of between 17 and 32 gallons of water by the use of a surface pump. The samples were 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 Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

HYDROLOGY

The measured depth to ground water at the site on October 28, 1993, ranged between 12.92 and 15.02 feet. The water levels in all of the wells have shown net decreases ranging from 0.02 to 0.85 feet since August 20, 1993, except for wells MW3, which showed a net increase of 0.02 feet. Based on the water level data gathered during the quarter, the ground water flow direction appeared to be predominantly to the west-southwest on October 28, 1993, and varied from the southwest to the northwest on September 23, 1993, as shown on the attached Potentiometric Surface Maps, Figures 1 and 2. The ground water flow direction has been predominantly to the southwest since the inception of the monitoring program in May of 1993 (two consecutive quarters). The average hydraulic gradient at the site on October 28, 1993, was approximately 0.002.

ANALYTICAL RESULTS

The ground water samples collected this quarter 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, TPH as diesel by EPA method 3510/modified 8015,

and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020.

The analytical results of all of the ground water samples collected from the monitoring wells to date are summarized in Table 2. The concentrations of TPH as gasoline, benzene, and TPH as diesel detected in the ground water samples collected this quarter are shown on the attached Figure 3. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

DISCUSSION

Based on the analytical results of the soil and ground water samples collected and evaluated to date, KEI recommends the continuation of the current ground water monitoring and sampling program. The five monitoring wells are currently monitored monthly and sampled on a quarterly basis. Ground water samples collected from the monitoring wells are analyzed for TPH as gasoline, TPH as diesel, and BTEX.

A sample of free product was collected on July 8, 1992, from the on-site water well and submitted to the Chevron Research and Technology Laboratory in Richmond, California. Based on Chevron's analysis, the product consisted of diesel fuel #2. The report also stated that the diesel was not "weathered" and that the diesel was fresh (less than one month old). On December 30, 1992, the well cover was secured with a lock by Paradiso Construction to prevent unauthorized access. KEI subsequently recommended that an additional sample of the free product be collected and submitted to the same Chevron laboratory for analysis of content and condition (age).

The free product sample was collected on September 2, 1993, and submitted to the Chevron Research and Technology Laboratory in Richmond, California. Based on Chevron's analysis, the physical and gas chromatographic properties of the sample collected on September 2, 1993, were relatively unchanged from the properties of the sample collected on July 8, 1992. Therefore, there is no evidence that biodegradation has occurred. However, purging the free product from the water well appears to have reduced the amount of free product in the well indicating that there does not appear to be a current source in the vicinity of the water well.

In order to obtain information regarding the construction of the on-site water well, KEI previously recommended conducting a down-hole camera survey of the well. The down-hole survey was conducted on September 2, 1993, by Water Well Technology, Inc. of Citrus

Heights, California. The survey indicated that the water well is six inches in diameter and is perforated (vertical saw cut) beginning at approximately 12 feet below grade to the total depth of the well (approximately 45 feet below grade). The water table was at approximately 14 feet below grade. Based on the results of the down-hole survey, the water well appears to be screened within the same zone as the five on-site monitoring wells.

KEI previously recommended conducting a well survey and an air photo analysis to identify any potential off-site sources that may be contributing to the contamination at the Berkeley Land Company site. KEI has obtained information from the Alameda County Public Works Water Resources Section for wells located within a 1/2-mile radius of the subject site. The information will be summarized in a future technical report. KEI will review the files of the Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, in the upcoming quarter for appropriate sites identified by the well survey.

On December 15, 1993, a representative of KEI reviewed available aerial photographs for the vicinity of the Berkeley Land Company site at the U.S. Geological Survey in Menlo Park, California. Aerial photographs from 1965 and 1966 show the subject site as an orchard and areas to the north, northeast and east (upgradient) of the site appear to be rural residential neighborhoods. Aerial photos from 1980 reveal very few changes in the areas upgradient of the site. Industrial facilities now present in the areas south and west of the site are beginning to be developed at the time of the 1980 photos. No apparent upgradient off-site sources of contamination were identified in the aerial photographs observed.

Free product has been consistently detected in the water well. KEI therefore installed a continuous, surface skimming, free product recovery device in the well. The skimmer is designed to continuously collect any free product present. Any free product collected will be removed during the monthly monitoring events.

DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services Agency, and to the RWQCB, San Francisco Bay Region.

LIMITATIONS

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

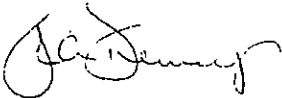
The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed these data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

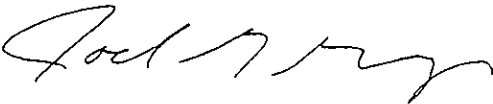
KEI-P88-1110.QR2
December 20, 1993
Page 6

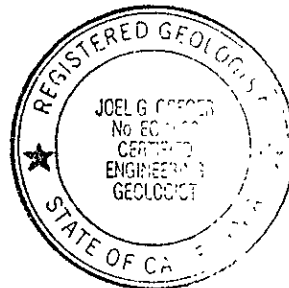
If you have any questions regarding this report, please do not hesitate to call at (510) 602-5100.

Sincerely,


Kaprealian Engineering, Inc.


for
Sarkis A. Soghomonian
Staff Engineer


Joel G. Greger, C.E.G.
Senior Engineering Geologist



License No. EG 1633
Exp. Date 6/30/94


Robert H. Kezerian
Project Manager

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Attachments: Tables 1 & 2
Location Map
Potentiometric Surface Maps - Figures 1 & 2
Concentrations of Petroleum Hydrocarbons - Figure 3
Laboratory Analyses
Chain of Custody documentation

TABLE 1

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)†</u>	<u>Product Thickness (feet)</u>	<u>Sheen</u>	<u>Water Purged (gallons)</u>	<u>Product Purged (ounces)</u>
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(Monitored and Sampled on October 28, 1993)

MW1	19.18	14.58	0	No	29	0
MW2	19.54	14.79	0	No	32	0
MW3	19.16	14.47	0	No	17	0
MW4	19.08	12.92	0	No	37	0
MW5	19.36	13.28	0	No	20	0
WW	N/A	15.02	0.38	N/A	0	1

(Monitored September 30, 1993)

WW	N/A	15.00	0.23	N/A	0	8
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(Monitored on September 23, 1993)

MW1	18.38	15.38	0	--	0	0
MW2	19.26	15.07	0	--	0	0
MW3	19.02	14.61	0	--	0	0
MW4	18.67	13.33	0	--	0	0
MW5	18.96	13.68	0	--	0	0
WW	N/A	15.06	0.21	N/A	0	8

(Monitored on September 16, 1993)

WW	N/A	14.88	0.38	N/A	0	16
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(Monitored on September 9, 1993)

WW	N/A	15.14	0.52	N/A	0	50
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(Monitored on September 2, 1993)

WW	N/A	15.09	0.54	N/A	0.5	78
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TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Top of Casing Elevation in feet above Mean Sea Level (MSL)*</u>
MW1	33.76
MW2	34.33
MW3	33.63
MW4	32.00
MW5	32.64

N/A = Not Applicable.

-- Sheen determination was not performed.

* Based on Alameda County Benchmark located at Eden Avenue and West Street (elevation = 33.16 MSL).

♦ The depth to water level measurement was taken from the top of the well casing. Prior to September 2, 1993, the water level measurement was taken from the top of the well cover.

TABLE 2
 SUMMARY OF LABORATORY ANALYSES
 WATER

<u>Date</u>	<u>Sample Well #</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>
10/28/93	MW1	120♦	200*	1.8	ND	ND	ND
	MW2	ND	ND	ND	ND	ND	ND
	MW3	170	ND	ND	ND	ND	1.4
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
7/12/93+ &	MW1	200*	150	1.1	ND	ND	0.51
	MW2	ND	ND	ND	ND	ND	ND
8/20/93	MW3	ND	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND
2/25/93	MW1	5,900*	4,600**	45	18	ND	750
	MW2	ND	ND	ND	ND	ND	ND
	MW3	200	ND	ND	ND	ND	ND
	MW4	ND	ND	ND	ND	ND	ND
	MW5	ND	ND	ND	ND	ND	ND

+ Samples collected on July 12, 1993, were analyzed for TPH as gasoline and BTEX. Samples collected on August 20, 1993, were analyzed for TPH as diesel.

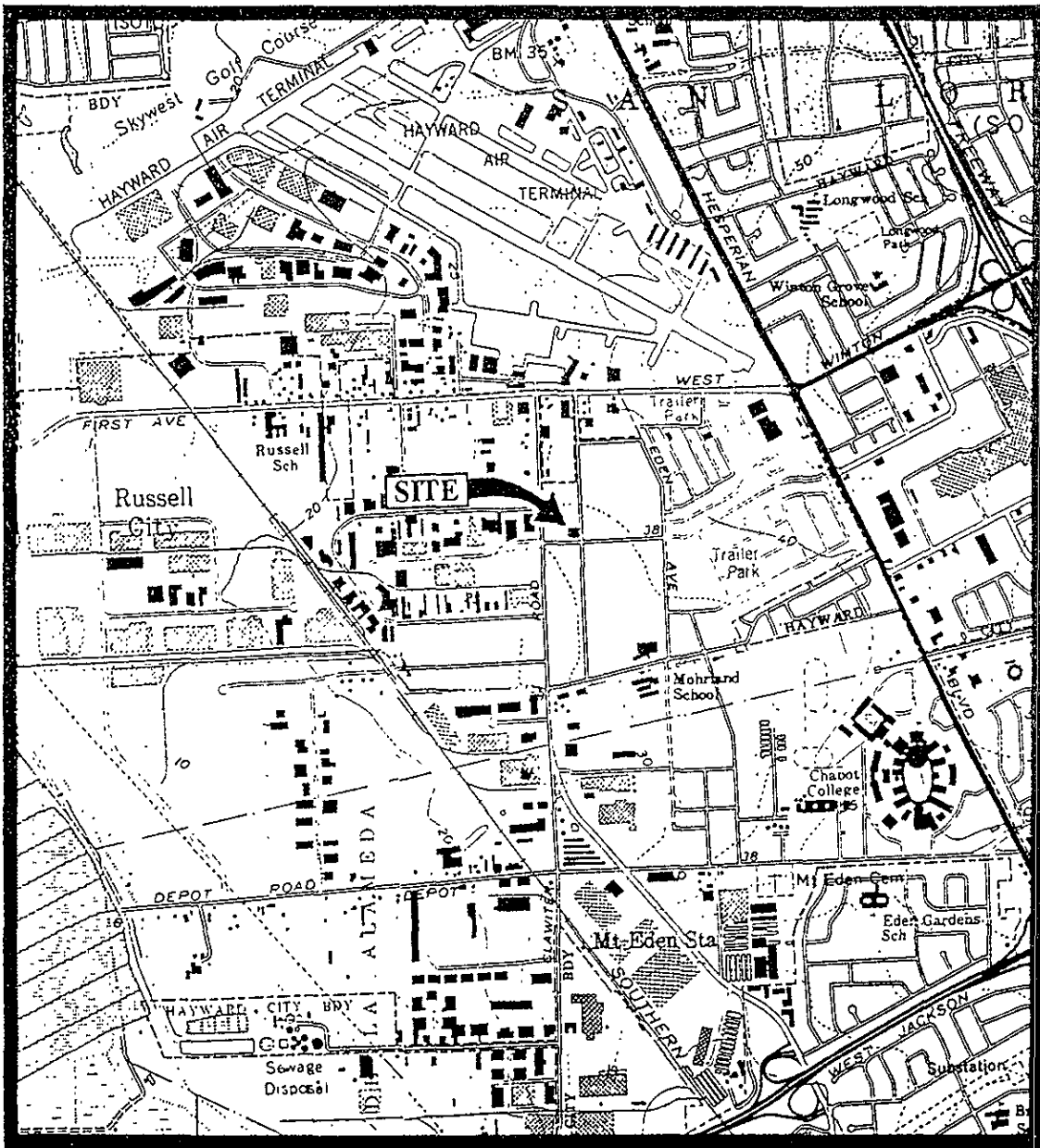
♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

* Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

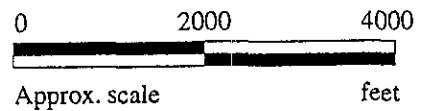
** Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

ND = Non-detectable.

Results in parts per billion (ppb), unless otherwise indicated.



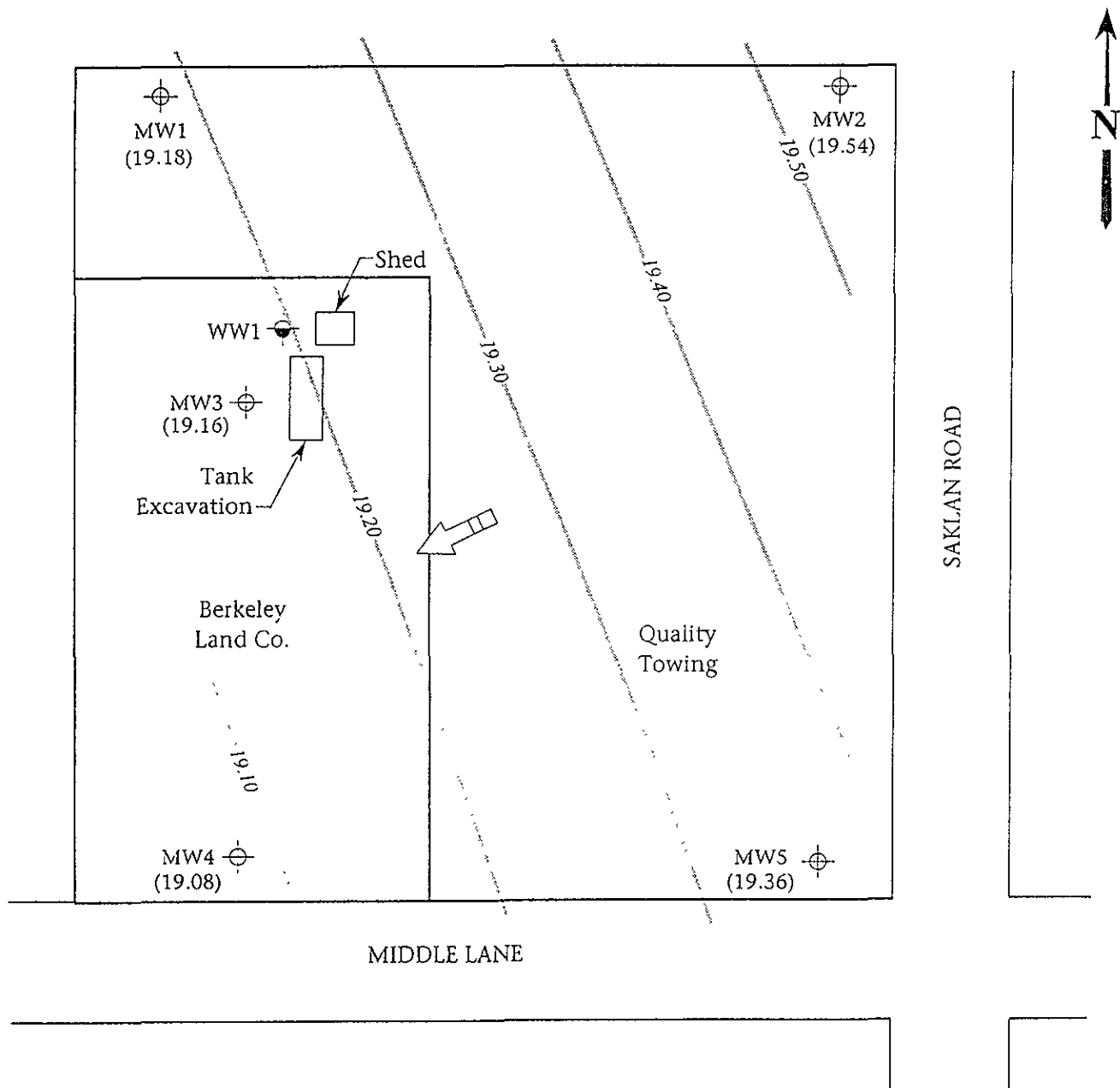
Base modified from 7.5 minute U.S.G.S.
 Hayward & San Leandro Quadrangles
 (both photorevised 1980)



KEI
 KAPREALIAN ENGINEERING
 INCORPORATED

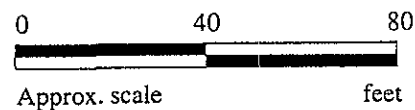
BERKELEY LAND CO.
 23555 SAKLAN ROAD
 HAYWARD, CALIFORNIA

LOCATION
 MAP



LEGEND

- ⊕ Monitoring well
- Water well
- () Ground water elevation in feet above Mean Sea Level
- ➡ Direction of ground water flow
- Contours of ground water elevation

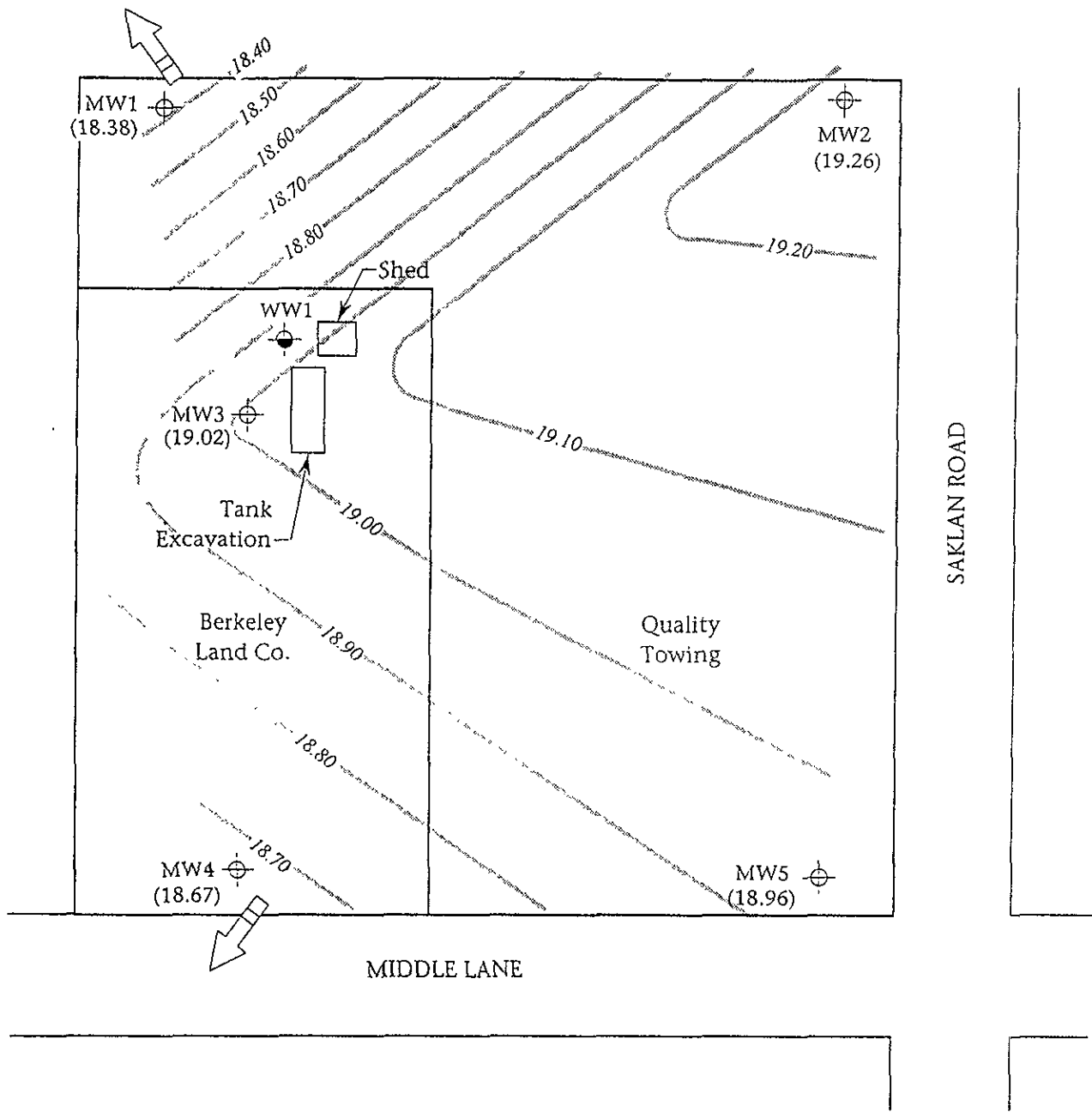


POTENTIOMETRIC SURFACE MAP FOR THE OCTOBER 28, 1993 MONITORING EVENT

**KAPREALIAN ENGINEERING
INCORPORATED**

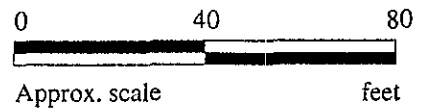
**BERKELEY LAND CO.
23555 SAKLAN ROAD
HAYWARD, CALIFORNIA**

**FIGURE
1**



LEGEND

- ⊕ Monitoring well
- ⊙ Water well
- () Ground water elevation in feet above Mean Sea Level
- ➡ Direction of ground water flow
- Contours of ground water elevation

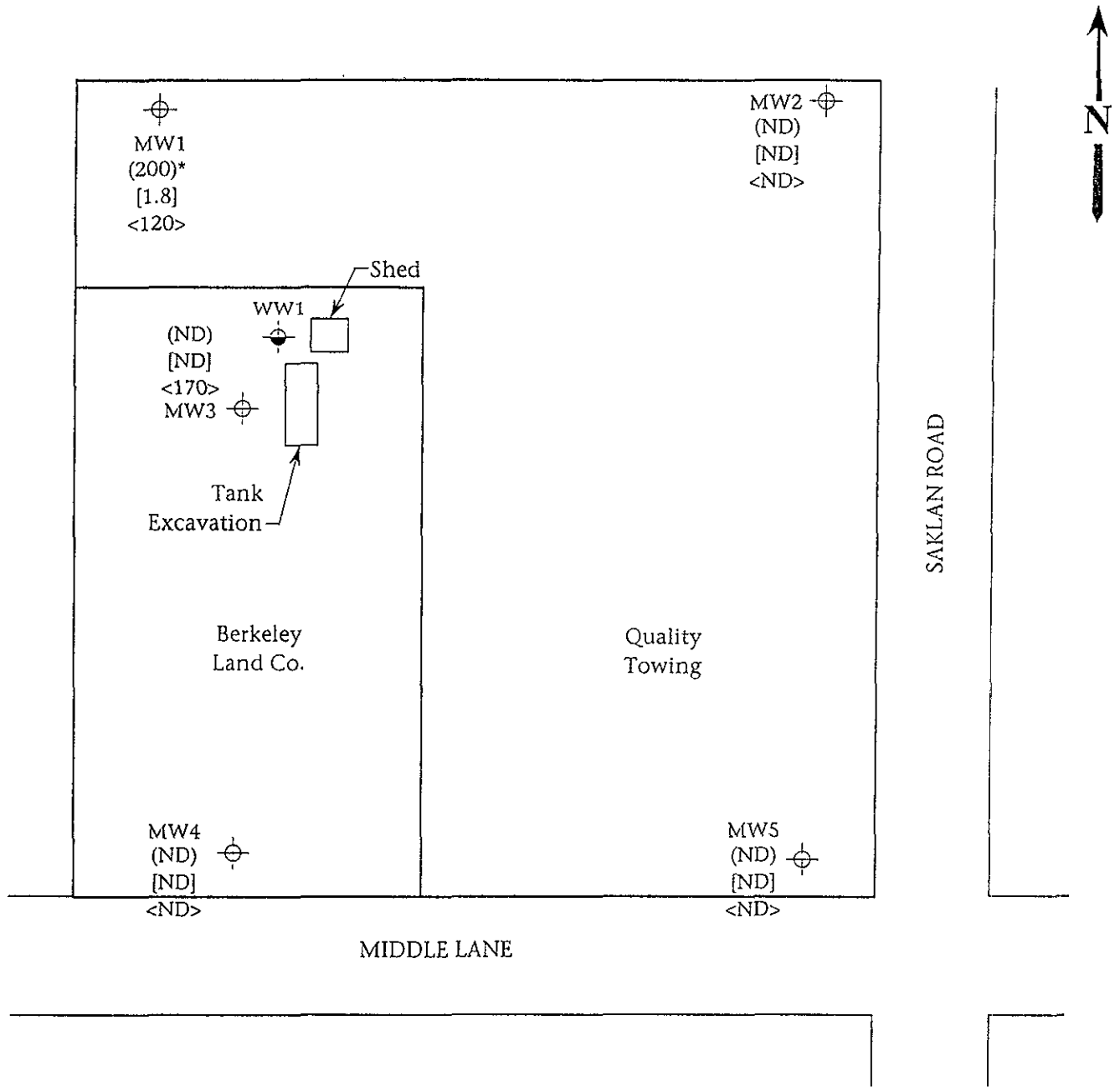


POTENTIOMETRIC SURFACE MAP FOR THE SEPTEMBER 23, 1993 MONITORING EVENT

**KAPREALIAN ENGINEERING
INCORPORATED**

**BERKELEY LAND CO.
23555 SAKLAN ROAD
HAYWARD, CALIFORNIA**

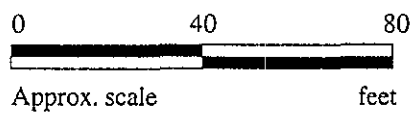
**FIGURE
2**



LEGEND

- ⊕ Monitoring well
- ⊙ Water well
- () Concentration of TPH as gasoline in ppb
- [] Concentration of benzene in ppb
- < > Concentration of TPH as diesel in ppb
- ND = Non-detectable

* The hydrocarbons detected did not appear to be gasoline.



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON OCTOBER 28, 1993



**BERKELEY LAND CO.
23555 SAKLAN ROAD
HAYWARD, CALIFORNIA**

**FIGURE
3**



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kapreallan Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 310-1501

Sampled: Oct 28, 1993
Received: Oct 28, 1993
Reported: Nov 11, 1993

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

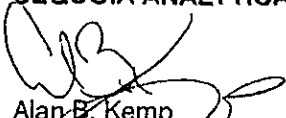
Analyte	Reporting Limit µg/L	Sample I.D. 310-1501 MW-1	Sample I.D. 310-1502 MW-2	Sample I.D. 310-1503 MW-3	Sample I.D. 310-1504 MW-4	Sample I.D. 310-1505 MW-5	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	50	200	N.D.	N.D.	N.D.	N.D.	
Benzene	0.5	1.8	N.D.	N.D.	N.D.	N.D.	
Toluene	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	
Ethyl Benzene	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total Xylenes	0.5	N.D.	N.D.	1.4	N.D.	N.D.	
Chromatogram Pattern:		Non-Gasoline Mixture (> C9)	--	--	--	--	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	11/2/93	11/1/93	11/2/93	11/1/93	11/1/93	11/1/93
Instrument Identification:	HP-2	HP-5	HP-2	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	118	101	102	108	109	123

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL


Alan B. Kemp
Project Manager



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kapreallan Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedessian	Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward Sample Matrix: Water Analysis Method: EPA 3510/3520/8015 First Sample #: 310-1501	Sampled: Oct 28, 1993 Received: Oct 28, 1993 Reported: Nov 11, 1993
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 310-1501 MW-1*	Sample I.D. 310-1502 MW-2	Sample I.D. 310-1503 MW-3	Sample I.D. 310-1504 MW-4	Sample I.D. 310-1505 MW-5	Sample I.D. Matrix Blank
Extractable Hydrocarbons	50	120	N.D.	170	N.D.	N.D.	
Chromatogram Pattern:		Diesel and Non-Diesel Mixture (<C14)	--	Diesel	--	--	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	11/3/93	11/3/93	11/3/93	11/3/93	11/3/93	11/3/93
Date Analyzed:	11/5/93	11/5/93	11/5/93	11/5/93	11/5/93	11/5/93
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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Alan B. Kemp
Project Manager

Please Note:

* Non-Diesel Mixture <C14 refers to unidentified peaks in the Kerosene / Stoddard Solvent range.



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Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Berkeley Farms, 23555 Sakian Rd., Hayward
Matrix: Water

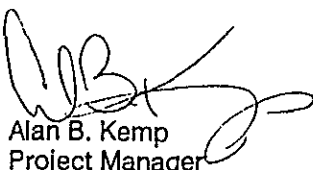
QC Sample Group: 3101501-05

Reported: Nov 11, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- Benzene	Xylenes	Diesel
	Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.F.	J.F.	J.F.	J.F.	K.Wimer
Conc. Spiked:	20	20	20	60	300
Units:	µg/L	µg/L	µg/L	µg/L	µg/L
LCS Batch#:	1LCS110293	1LCS110293	1LCS110293	1LCS110293	BLK110393
Date Prepared:	11/2/93	11/2/93	11/2/93	11/2/93	11/3/93
Date Analyzed:	11/2/93	11/2/93	11/2/93	11/2/93	11/5/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A
LCS % Recovery:	113	108	109	110	98
Control Limits:	70-130	70-130	70-130	70-130	80-120
MS/MSD Batch #:	3101527	3101527	3101527	3101527	BLK110393
Date Prepared:	11/2/93	11/2/93	11/2/93	11/2/93	11/3/93
Date Analyzed:	11/2/93	11/2/93	11/2/93	11/2/93	11/5/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A
Matrix Spike % Recovery:	105	100	100	102	98
Matrix Spike Duplicate % Recovery:	110	105	105	105	99
Relative % Difference:	4.7	4.9	4.9	2.9	1.0

SEQUOIA ANALYTICAL


Alan B. Kemp
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.



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Kapreallan Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward

QC Sample Group: 3101501-05

Reported: Nov 11, 1993

QUALITY CONTROL DATA REPORT

SURROGATE

Method:	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015
Analyst:	K. Wimer	K. Wimer	K. Wimer	K. Wimer	K. Wimer	K. Wimer
Reporting Units:	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993
Sample #:	310-1501	310-1502	310-1503	310-1504	310-1505	Matrix Blank

Surrogate						
% Recovery:	90	82	84	90	80	99

SEQUOIA ANALYTICAL


Alan B. Kemp
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

CHAIN OF CUSTODY

SAMPLER <i>Ray</i>		SITE NAME & ADDRESS <i>BERKELEY FARMS HAYWARD - 23555 Saklam Blvd</i>							ANALYSES REQUESTED					TURN AROUND TIME: <i>REGULAR</i>	
WITNESSING AGENCY									TOTAL	TPAD					REMARKS
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION							
MW1	10-28			X	X		1	A/B	X	X				3101501A	VOA's Received ↓
MW2	"			X	X		"	"	X	X			1502		
MW3	4			X	X		"	"	X	X			1503		
MW4	4			X	X		"	"	X	X			1504		
MW5	4			X	X		"	"	X	X			1505		
Relinquished by: (Signature) <i>Ray</i>		Date/Time <i>10-28-10</i>		Received by: (Signature) <i>[Signature]</i>		The following MUST BE completed by the laboratory accepting samples for analysis:									
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time <i>10-29-10</i>		Received by: (Signature) <i>[Signature]</i>		1. Have all samples received for analysis been stored in ice? <i>yes</i>									
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time <i>10-29-10 12:30p</i>		Received by: (Signature) <i>William Crum</i>		2. Will samples remain refrigerated until analyzed? <i>yes</i>									
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time <i>10/28/2010</i>		Received by: (Signature) <i>[Signature]</i>		3. Did any samples received for analysis have head space? <i>NO</i>									
						4. Were samples in appropriate containers and properly packaged? <i>yes</i>									
						<i>[Signature]</i>					Title		<i>10/28</i>		



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kaprealian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward
Sample Matrix: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 310-1501

Sampled: Oct 28, 1993
Received: Oct 28, 1993
Reported: Nov 11, 1993

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 310-1501 MW-1	Sample I.D. 310-1502 MW-2	Sample I.D. 310-1503 MW-3	Sample I.D. 310-1504 MW-4	Sample I.D. 310-1505 MW-5	Sample I.D. Matrix Blank
Purgeable Hydrocarbons	50	200	N.D.	N.D.	N.D.	N.D.	
Benzene	0.5	1.8	N.D.	N.D.	N.D.	N.D.	
Toluene	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	
Ethyl Benzene	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total Xylenes	0.5	N.D.	N.D.	1.4	N.D.	N.D.	
Chromatogram Pattern:		Non-Gasoline Mixture (>C9)	--	--	--	--	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	11/2/93	11/1/93	11/2/93	11/1/93	11/1/93	11/1/93
Instrument Identification:	HP-2	HP-5	HP-2	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	118	101	102	108	109	123

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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Alan B. Kemp
Project Manager



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1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Kapreallan Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedessian	Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward Sample Matrix: Water Analysis Method: EPA 3510/3520/8015 First Sample #: 310-1501	Sampled: Oct 28, 1993 Received: Oct 28, 1993 Reported: Nov 11, 1993
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TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 310-1501 MW-1*	Sample I.D. 310-1502 MW-2	Sample I.D. 310-1503 MW-3	Sample I.D. 310-1504 MW-4	Sample I.D. 310-1505 MW-5	Sample I.D. Matrix Blank
Extractable Hydrocarbons	50	120	N.D.	170	N.D.	N.D.	
Chromatogram Pattern:		Diesel and Non-Diesel Mixture (<C14)	--	Diesel	--	--	

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	11/3/93	11/3/93	11/3/93	11/3/93	11/3/93	11/3/93
Date Analyzed:	11/5/93	11/5/93	11/5/93	11/5/93	11/5/93	11/5/93
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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Alan B. Kemp
Project Manager

Please Note:

* Non-Diesel Mixture <C14 refers to unidentified peaks in the Kerosene / Stoddard Solvent range.



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Kaprelian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward
Matrix: Water

QC Sample Group: 3101501-05

Reported: Nov 11, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- Benzene	Xylenes	Diesel
	Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.F.	J.F.	J.F.	J.F.	K.Wimer
Conc. Spiked:	20	20	20	60	300
Units:	µg/L	µg/L	µg/L	µg/L	µg/L
LCS Batch#:	1LCS110293	1LCS110293	1LCS110293	1LCS110293	BLK110393
Date Prepared:	11/2/93	11/2/93	11/2/93	11/2/93	11/3/93
Date Analyzed:	11/2/93	11/2/93	11/2/93	11/2/93	11/5/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A
LCS % Recovery:	113	108	109	110	98
Control Limits:	70-130	70-130	70-130	70-130	80-120

MS/MSD Batch #:	3101527	3101527	3101527	3101527	BLK110393
Date Prepared:	11/2/93	11/2/93	11/2/93	11/2/93	11/3/93
Date Analyzed:	11/2/93	11/2/93	11/2/93	11/2/93	11/5/93
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A
Matrix Spike % Recovery:	105	100	100	102	98
Matrix Spike Duplicate % Recovery:	110	105	105	105	99
Relative % Difference:	4.7	4.9	4.9	2.9	1.0

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Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation and analytical methods employed for the samples. The LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

Alan B. Kemp
Project Manager



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Kaprelian Engineering, Inc.
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedessian

Client Project ID: Berkeley Farms, 23555 Saklan Rd., Hayward

QC Sample Group: 3101501-05

Reported: Nov 11, 1993

QUALITY CONTROL DATA REPORT

SURROGATE

Method:	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015	EPA 8015
Analyst:	K. Wimer	K. Wimer	K. Wimer	K. Wimer	K. Wimer	K. Wimer
Reporting Units:	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993	Nov 5, 1993
Sample #:	310-1501	310-1502	310-1503	310-1504	310-1505	Matrix Blank

Surrogate % Recovery:	90	82	84	90	80	99
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Alan B. Kemp
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

CHAIN OF CUSTODY

SAMPLER		SITE NAME & ADDRESS							ANALYSES REQUESTED					TURN AROUND TIME:				
Ray		BERKELEY FARMS HAYWARD - 23555 Saklan Rd							TBE TPHD					REGULAR				
WITNESSING AGENCY		SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION						REMARKS		
		MW1	10-28		X	X			1 2	AMB VOA							3101501A	VOA's preserved
		MW2	"		X	X			4	U							1502	
		MW3	4		X	X			4	U							1503	
		MW4	4		X	X			4	U							1504	
		MW5	4		X	X			4	U							1505	
Relinquished by: (Signature) Ray		Date/Time	2010 10-28-10		Received by: (Signature)													
Relinquished by: (Signature)		Date/Time	10/28/10		Received by: (Signature)													
Relinquished by: (Signature)		Date/Time	10-29-10 12:30		Received by: (Signature) Melina Chavez													
Relinquished by: (Signature)		Date/Time	10/28 2010		Received by: (Signature) P. Stenstrom													

The following MUST BE completed by the laboratory accepting samples for analysis:

- Have all samples received for analysis been stored in ice? YES
- Will samples remain refrigerated until analyzed? YES
- Did any samples received for analysis have head space? NO
- Were samples in appropriate containers and properly packaged? YES

Signature: LMS Title: _____ Date: 10/28