

GROUND WATER SAMPLING REPORT
OCTOBER, 1992
FOR
MILLS COLLEGE CORPORATION YARD
OAKLAND, CALIFORNIA

HARZA KALDVEER

HARZA KALDVEER

Consulting Engineers

December 7, 1992
KE1025-2A-719, 22047

Mills College
5000 MacArthur Boulevard
Oakland, California 94621

Attention: Mr. Tom Biddle

RE: GROUND WATER SAMPLING
REPORT - OCTOBER 1992
MILLS COLLEGE CORPORATION
YARD
OAKLAND, CALIFORNIA

Dear Mr. Biddle:

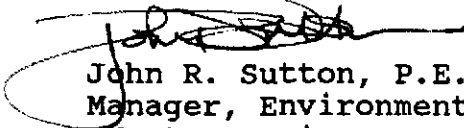
Enclosed is our October, 1992 ground water sampling report for the Mills College Corporation Yard. We appreciate the opportunity to provide services to you on this project and trust this report meets your needs at this time. Copies of this report should be forwarded to the California Regional Water Quality Control Board and the Alameda County Department of Environmental Health. If you have any questions, or require additional information, please do not hesitate to call.

Very truly yours,

HARZA KALDVEER



Dennis Laduzinsky, C.E.G.
Senior Engineering Geologist



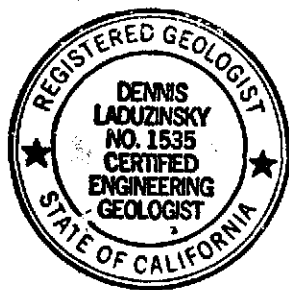
John R. Sutton, P.E./G.E.
Manager, Environmental/Hazardous
Waste Services
Associate


DL/JRS:pv
Copies: Addressee (4)

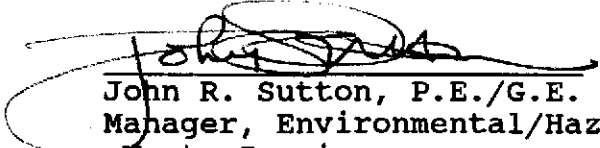
GROUND WATER SAMPLING REPORT
OCTOBER, 1992

For
MILLS COLLEGE CORPORATION YARD
OAKLAND, CALIFORNIA

To
Mills College
5000 MacArthur Boulevard
Oakland, California 94621




Dennis Laduzinsky, C.E.G.
Senior Engineering Geologist


John R. Sutton, P.E./G.E.
Manager, Environmental/Hazardous
Waste Services
Associate

December, 1992

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Letter of Transmittal

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PLEASANT HILL, CALIFORNIA

GROUND WATER SAMPLING REPORT
OCTOBER, 1992
MILLS COLLEGE CORPORATION YARD
OAKLAND, CALIFORNIA

I. INTRODUCTION

This report presents the results of a ground water sampling study at the Mills College Corporation Yard in Oakland, California. The project location is shown on the Site Vicinity Map, Figure 1. The scope of services provided during this investigation consisted of collecting and analyzing ground water samples from three monitoring wells. Ground water samples were analyzed for total petroleum hydrocarbons as gasoline and purgeable aromatic compounds. Well locations are shown on the Site Plan, Figure 2. This sampling round completes the scheduled semi-annual sampling program outlined in the letter from Randall Morrison of Crosby, Heafey, Roach and May, to Mr. Paul Smith of Alameda County Department of Environmental Health dated March 29, 1991.

II. FIELD INVESTIGATION

A. Well Sampling

Three ground water monitoring wells were sampled on October 9, 1992. Following an initial ground water level measurement, a minimum of five well-casing volumes of water was purged from each well using a teflon bailer. Purging consisted of the gradual removal of water from the well until physical parameters such as pH, temperature and specific conductance had stabilized. Following purging, samples were decanted from the bailer into appropriate sample containers, labeled, and placed in refrigerated storage for transport to the laboratory under chain-of-custody control. Monitoring well sampling logs are attached to this report as Appendix A.

B. Ground Water Gradient

Well-top elevations were surveyed by our firm during a previous investigation at the site. Well-top elevations, depth to water measured during this investigation, and calculated water-surface elevations are presented in Table 1. These data are used to generate the Ground Water Elevation Contour Map presented on Figure 3. Ground water elevation data collected in October 1992 indicate ground water has a gradient of 0.003 ft/ft to the south.

III. ANALYTICAL RESULTS

A. Laboratory Procedures

Ground water samples were analyzed by Quanteq Laboratories of Pleasant Hill, California. Samples from each well were analyzed

for total petroleum hydrocarbons as gasoline using EPA Method 5030, and for purgeable aromatic compounds using EPA Method 8020.

B. Analytical Results

The results of the chemical analyses are presented on Table 2 and laboratory certificates are attached to this report as Appendix B. A summary of all ground water sample analyses performed since the wells were installed in June, 1989 is also included on Table 2.

Hydrocarbons as gasoline (TPH-G) were measured in the water sampled from Well MW-1 at a concentration of 2.8 parts per million (ppm). Benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations were measured in Well MW-1 at 0.33, 0.13, 0.06 and 0.20 ppm, respectively. TPH-G was also measured at a concentration of 4.2 ppm in a duplicate water sample collected from Well MW-1. BTEX concentrations in the duplicate sample were measured at 0.54, 0.23, 0.08 and 0.36 ppm, respectively. A faint gasoline odor and a slight hydrocarbon sheen on the water surface were recognized during the purging of the well.

The water samples collected from Wells MW-2 and MW-3 did not contain hydrocarbons as gasoline, toluene, ethylbenzene or xylenes in detectable quantities. However, benzene was detected at three and five ppm in Wells MW-2 and MW-3, respectively.

C. Discussion

The five sampling rounds performed between June, 1989 and October, 1992 have shown a fluctuation in reported TPH-G concentrations in Well MW-1 for the monitoring period from lows of 1 to 2 ppm to highs of 11 to 16 ppm. The reported changes in concentration may be related to changes in ground water elevation, although a consistent correlation is not evident in the data. Changes in relative concentrations of purgeable aromatics generally reflect the changes in TPH concentrations.

Results for MW-2 show a general increase from non-detect in June, 1989 and December, 1990 to 0.09 ppm TPH-G in March, 1992. For the same period, Benzene and toluene concentrations also show a slight positive trend. TPH-G and toluene results for MW-2 have decreased to non-detect for this monitoring period. Benzene concentrations have decreased from 0.047 ppm measured in March to 0.003 ppm in October.

TPH-G concentrations in MW-3 were previously shown to have a slight positive trend from non-detect in June, 1989 to 0.09 ppm in March, 1992. During this period benzene and toluene concentrations in MW-3 also showed a modest increase. The TPH-G and toluene results for MW-3 show a decrease to non-detect for this monitoring period.

Benzene concentrations have decreased from 0.27 ppm in March to 0.005 ppm in October.

IV. LIMITATIONS

This report has been prepared according to generally accepted geologic and environmental practices. No other warranty, either expressed or implied is made. The analysis, conclusions and recommendations contained in this report are based on site conditions as they existed at the time of our investigation; review of previous reports relevant to the site conditions; and laboratory results from an outside analytical laboratory.

Changes in the information or data gained from any of these sources could result in changes in our conclusions or recommendations. If such changes do occur, we should be advised so that we can review our report in light of these changes.

* * * * *

TABLE 1

GROUND WATER ELEVATION DATA
(all values reported in feet)

<u>Monitoring Well</u>	<u>Relative Well Top Elevation (1)</u>	<u>Depth to Water</u>	<u>Ground Water Elevation</u>
<u>June 1989</u>			
MW-1	100.00	19.44	80.56
MW-2	99.98	19.36	80.62
MW-3	100.01	19.40	80.61
<u>December 1990</u>			
MW-1	100.00	22.05	77.95
MW-2	99.98	21.96	78.02
MW-3	100.01	22.00	78.01
<u>June 1991</u>			
MW-1	100.00	20.85	79.15
MW-2	99.98	20.76	79.22
MW-3	100.01	20.81	79.20
<u>March 1992</u>			
MW-1	100.00	19.87	79.15
MW-2	99.98	19.92	79.22
MW-3	100.01	19.82	79.20
<u>October 1992</u>			
MW-1	100.00	21.69	78.31
MW-2	99.98	21.60	78.38
MW-3	100.01	21.65	78.36

Note:

(1) Well-top elevations based on an arbitrary datum of 100.00 feet at MW-1.

TABLE 2

SUMMARY OF GROUND WATER SAMPLE ANALYSES
(reported in parts per million, mg/l)

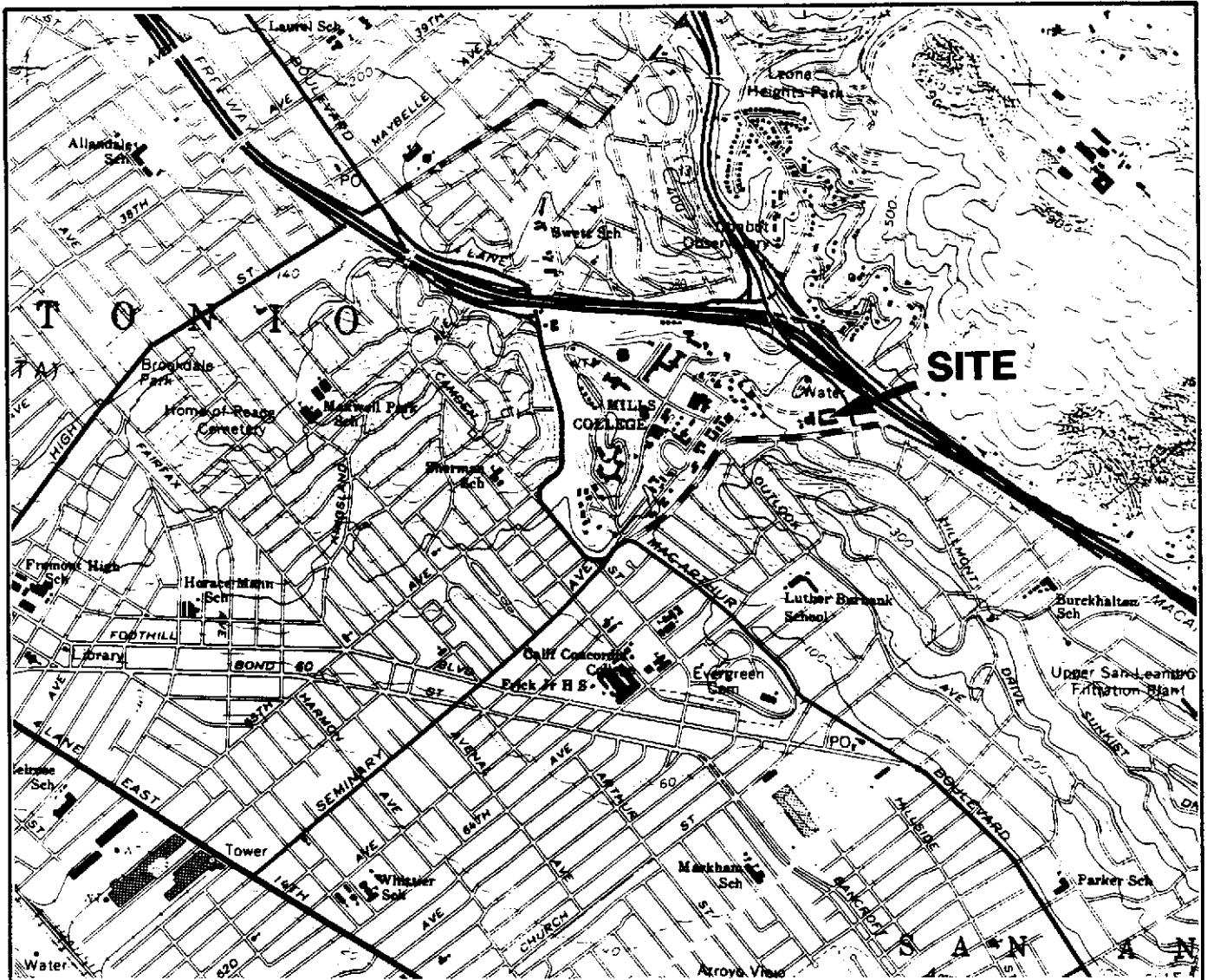
Monitoring Well/Date	TPH Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
<u>MW-1</u>					
June, 1989	11.0	2.1	1.9	0.031	1.4
December, 1990	2.5	0.40	0.21	0.056	0.31
June, 1991	16	2	1.1	0.41	2.8
March, 1992	1.6	0.26	0.1	0.47	0.12
October, 1992	2.8	0.33	0.13	0.06	0.20
October, 1992 (D)	4.2	0.54	0.23	0.08	0.36
<u>MW-2</u>					
June, 1989	ND	ND	ND	ND	ND
December, 1990	ND	ND	ND	ND	ND
June, 1991	ND	0.005	ND	ND	ND
March, 1992	0.09	0.047	0.0005	ND	ND
October, 1992	ND	0.003	ND	ND	ND
<u>MW-3</u>					
June, 1989	ND	ND	ND	ND	ND
December, 1990	0.05	0.011	ND	ND	ND
June, 1991	0.1	0.007	ND	ND	ND
March, 1992	0.09	0.27	0.0009	ND	ND
October, 1992	ND	0.005	ND	ND	ND

Notes:

TPH = Total Petroleum Hydrocarbons

ND = Not Detected; see laboratory reports for specific detection limits

(D) = Duplicate sample analytical results



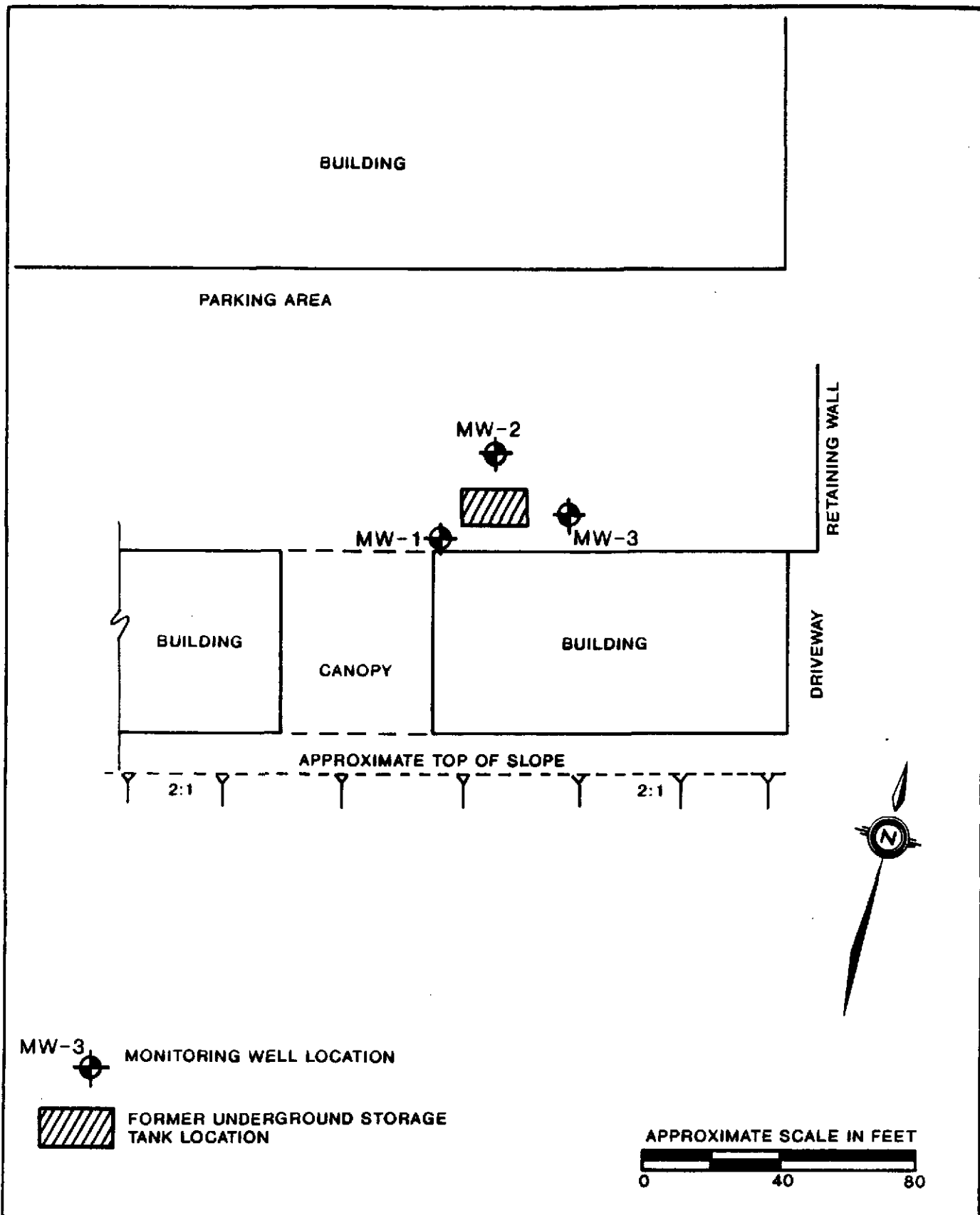
BASE: U.S.G.S. Oakland East 7.5 Minute Quadrangle (topographic)

HARZA KALDVEER
Consulting Engineers

SITE VICINITY MAP

MILLS COLLEGE
CORPORATION YARD FACILITY
Oakland, California

PROJECT NO.	DATE	Figure 1
KE1025-2A-719	October 1992	



MW-3  MONITORING WELL LOCATION

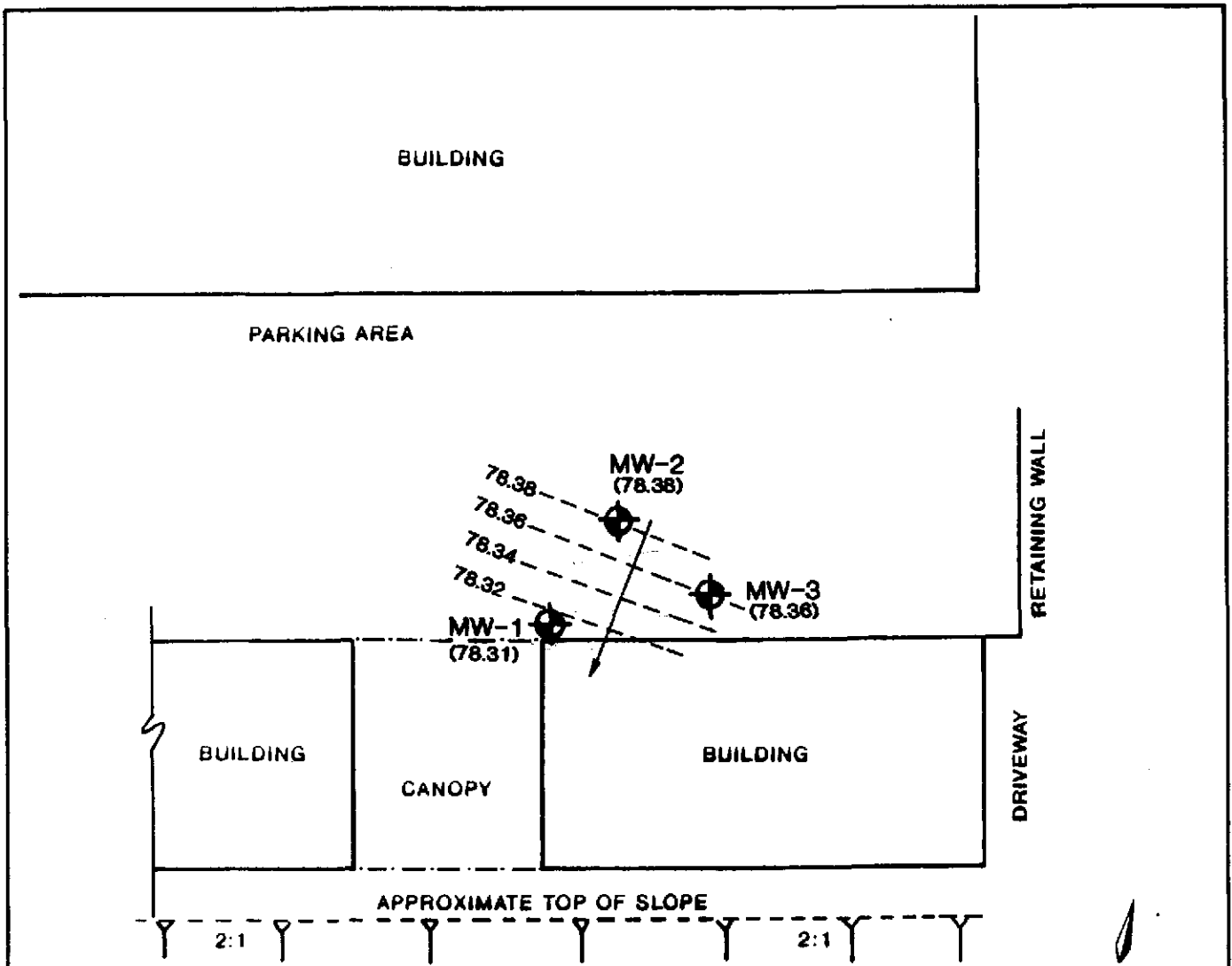
 FORMER UNDERGROUND STORAGE TANK LOCATION

APPROXIMATE SCALE IN FEET



 0 40 80

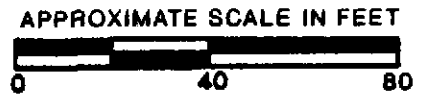
HARZA KALDVEER <i>Consulting Engineers</i>	SITE PLAN	
	MILLS COLLEGE CORPORATION YARD FACILITY Oakland, California	
	PROJECT NO.	DATE
	KE1025-2A-719	October 1992

Figure 2



EXPLANATION

- MW-3 (78.36)  MONITORING WELL LOCATION
- - - 78.32 APPROXIMATE GROUND WATER ELEVATION CONTOUR IN FEET
-  ESTIMATED GROUND WATER FLOW DIRECTION



HARZA KALDVEER <i>Consulting Engineers</i>	GROUND WATER ELEVATION CONTOURS October 9, 1992	
	MILLS COLLEGE CORPORATION YARD FACILITY Oakland, California	
	PROJECT NO.	DATE
	KE1025-2A-719	October 1992
		Figure 3

APPENDIX A
WELL SAMPLING LOGS

WATER SAMPLE LOG

Project Name: Mills College Corporation Yard Date: 10/9/92
 Project Number: KE1025-2A-719 Sampler: JAF
 Well Number: MW-1 Weather: Clear, warm, calm
 Well Location: West of former UST, adjacent to building

Well Construction:

Date Completed: 6/1/90
 Total Depth of Well: 34 Feet
 Diameter: 2 Inch
 Well Elevation & Reference: 100.00 Feet
(Arbitrary Datum)

Groundwater Levels:

Initial: 21.69 Feet
 Final: 22.12 Feet
 Reference Point: Top of PVC
 Well Volume of Water: 2.1 Gallons

Sampling Equipment & Cleaning

Sampler Type: Teflon Bailer
 Method of Cleaning: See Below
 Pump or Bailer Type: Teflon
 Method of Cleaning: See Below
 pH Meter: HYDAC
 Conductivity Meter: HYDAC
 Comments: Bailer washed in liquinox solution and rinsed with deionized water.

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (umhos/cm)		Color/Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
14:30	Begin Purging						Gray	Sl. Gas
14:36		3	7.45	68.5		3600	"	"
14:41		5	7.11	68.8		3530	"	"
14:47		7	7.04	68.3		3510	"	"
14:57		10	7.04	67.6		3480	"	"
15:10	Sampled							

Total Discharge: 10 Gallons
 Casing Volumes Removed: 5 Volumes
 Method of Disposal: To 55g Drum

Comments: _____



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 Geoscience Consultants
 A California Corporation

WATER SAMPLE LOG

MILLS HALL CORPORATION YARD
 Oakland, California

PROJECT NO.	DATE	Figure A-1
KE1025-2A-719	October 1992	

WATER SAMPLE LOG

Project Name: Mills College Corporation Yard Date: 10/9/92
 Project Number: KE1025-2A-719 Sampler: JAF
 Well Number: MW-2 Weather: Clear, warm, calm
 Well Location: North of former UST

Well Construction:

Date Completed: 6/2/89
 Total Depth of Well: 35 Feet
 Diameter: 2 Inch
 Well Elevation & Reference: 99.98 Feet
(Arbitrary Datum)

Groundwater Levels:

Initial: 21.60 Feet
 Final: 27.52 Feet
 Reference Point: Top of PVC
 Well Volume of Water: 2.3 Gallons

Sampling Equipment & Cleaning

Sampler Type: Teflon Bailer
 Method of Cleaning: See Below
 Pump or Bailer Type: Teflon
 Method of Cleaning: See Below
 pH Meter: HYDAC
 Conductivity Meter: HYDAC
 Comments: Bailer washed in liquinox
solution and rinsed with deionized
water.

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (umhos/cm)		Color/Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
13:30	Begin Purging						Lt. Brn/Cloudy	None
13:35		2	7.42	70.4		1932	"	"
13:42		5	7.46	69.2		1781	"	"
13:51		8	7.49	70.4		1833	"	"
14:03		12	7.54	70.2		1819	"	"
14:10	Sampled							

Total Discharge: 12 Gallons
 Casing Volumes Removed: 5 Volumes
 Method of Disposal: To 55g Drum

Comments: _____



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WATER SAMPLE LOG

**MILLS HALL CORPORATION YARD
 Oakland, California**

PROJECT NO.	DATE	Figure A-2
KE1025-2A-719	October 1992	

WATER SAMPLE LOG

Project Name: Mills College Corporation Yard Date: 10/9/92
 Project Number: KE1025-2A-719 Sampler: JAF
 Well Number: MW-3 Weather: Clear, warm, calm
 Well Location: East of former tank, adjacent to building

Well Construction:

Date Completed: 6/2/90
 Total Depth of Well: 34 Feet
 Diameter: 2 Inch
 Well Elevation & Reference: 100.01 Feet
(Arbitrary Datum)

Groundwater Levels:

Initial: 21.65 Feet
 Final: 24.52 Feet
 Reference Point: Top of PVC
 Well Volume of Water: 2.1 Gallons

Sampling Equipment & Cleaning

Sampler Type: Teflon Bailer
 Method of Cleaning: See Below
 Pump or Bailer Type: Teflon
 Method of Cleaning: See Below
 pH Meter: HYDAC
 Conductivity Meter: HYDAC
 Comments: Bailer washed in liquinox
solution and rinsed with deionized
water.

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (umhos/cm)		Color/Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		
12:40	Begin Purging						lt. Brn./Cloudy	None
12:48		3	8.05	69.5		1302	"	"
12:54		5	7.82	68.1		1296	"	"
13:01		7	7.70	67.6		1304	"	"
13:12		10.5	7.65	67.1		1294	"	"
13:20	Sampled							

Total Discharge: 10.5 Gallons
 Casing Volumes Removed: 5 Volumes
 Method of Disposal: To 55g Drum.

Comments: _____



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WATER SAMPLE LOG

MILLS HALL CORPORATION YARD
Oakland, California

PROJECT NO.	DATE	Figure A-3
KE1025-2A-719	October 1992	

WATER SAMPLE LOG

Project Name: Mills College Corporation Yard Date: 10/9/92
 Project Number: KE1025-2A-719 Sampler: JAF
 Well Number: _____ Weather: Clear, warm, calm
 Well Location: _____

Well Construction:

Date Completed: _____
 Total Depth of Well: _____
 Diameter: 2 inch
 Well Elevation & Reference: _____
 (Arbitrary Datum)

Groundwater Levels:

Initial: _____
 Final: _____
 Reference Point: Top of PVC
 Well Volume of Water: _____


Sampling Equipment & Cleaning

Sampler Type: Teflon Bailer
 Method of Cleaning: See Below
 Pump or Bailer Type: Teflon
 Method of Cleaning: See Below
 pH Meter: HYDAC
 Conductivity Meter: HYDAC
 Comments: Bailer washed in liquinox solution and rinsed with deionized water.

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (umhos/cm)		Color/Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

 <p>Kaldveer Associates Geoscience Consultants A California Corporation</p>	WATER SAMPLE LOG		
	MILLS HALL CORPORATION YARD Oakland, California		
	PROJECT NO.	DATE	Figure
	KE1025-2A-719	October 1992	

WATER SAMPLE LOG

Project Name: Mills College Corporation Yard Date: 10/9/92
 Project Number: KE1025-2A-719 Sampler: JAF
 Well Number: _____ Weather: Clear, warm, calm
 Well Location: _____

Well Construction:

Date Completed: _____
 Total Depth of Well: _____
 Diameter: 2 Inch
 Well Elevation & Reference: _____
 (Arbitrary Datum)

Groundwater Levels:

Initial: _____
 Final: _____
 Reference Point: Top of PVC
 Well Volume of Water: _____

Sampling Equipment & Cleaning

Sampler Type: Teflon Bailer
 Method of Cleaning: See Below
 Pump or Bailer Type: Teflon
 Method of Cleaning: See Below
 pH Meter: HYDAC
 Conductivity Meter: HYDAC
 Comments: Bailer washed in liquinox solution and rinsed with deionized water.

SAMPLING MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (umhos/cm)		Color/Turbidity	Odor
	Per Time Period	Cumulative			Field	@ 25°C		

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____



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 Geoscience Consultants
 A California Corporation

WATER SAMPLE LOG

MILLS HALL CORPORATION YARD
 Oakland, California

PROJECT NO.	DATE	Figure
KE1025-2A-719	October 1992	

APPENDIX B

LABORATORY REPORTS,
QUANTEQ LABORATORIES
PLEASANT HILL, CALIFORNIA

HARZA KALDVEER

SAMPLE ID: MW-1
CLIENT PROJ. ID: KE1025-2A-719
DATE SAMPLED: 10/09/92
DATE RECEIVED: 10/09/92
REPORT DATE: 10/19/92

QUANTEQ LAB NO: 9210066-01A
QUANTEQ JOB NO: 9210066
DATE ANALYZED: 10/12/92
INSTRUMENT: F

BTEX AND HYDROCARBONS (WATER MATRIX)
METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	330	0.3
Toluene	108-88-2	130	0.3
Ethylbenzene	100-41-4	60	0.3
Xylenes, Total	1330-20-7	200	1

PURGEABLE HYDROCARBONS AS:

Gasoline 2.8 mg/L 0.05 mg/L

ND = Not Detected

HARZA KALDVEER

SAMPLE ID: MW-2
CLIENT PROJ. ID: KE1025-2A-719
DATE SAMPLED: 10/09/92
DATE RECEIVED: 10/09/92
REPORT DATE: 10/19/92

QUANTEQ LAB NO: 9210066-02A
QUANTEQ JOB NO: 9210066
DATE ANALYZED: 10/12/92
INSTRUMENT: F

BTEX AND HYDROCARBONS (WATER MATRIX)
METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	3	0.3
Toluene	108-88-2	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

PURGEABLE HYDROCARBONS AS:

Gasoline ND mg/L 0.05 mg/L

ND = Not Detected

HARZA KALDVEER

SAMPLE ID: MW-3
CLIENT PROJ. ID: KE1025-2A-719
DATE SAMPLED: 10/09/92
DATE RECEIVED: 10/09/92
REPORT DATE: 10/19/92

QUANTEQ LAB NO: 9210066-03A
QUANTEQ JOB NO: 9210066
DATE ANALYZED: 10/12/92
INSTRUMENT: F

BTEX AND HYDROCARBONS (WATER MATRIX)
METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	5	0.3
Toluene	108-88-2	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

PURGEABLE HYDROCARBONS AS:

Gasoline ND mg/L 0.05 mg/L

ND = Not Detected

HARZA KALDVEER

SAMPLE ID: MW-1A
CLIENT PROJ. ID: KE1025-2A-719
DATE SAMPLED: 10/09/92
DATE RECEIVED: 10/09/92
REPORT DATE: 10/19/92

QUANTEQ LAB NO: 9210066-04A
QUANTEQ JOB NO: 9210066
DATE ANALYZED: 10/12-13/92
INSTRUMENT: F

BTEX AND HYDROCARBONS (WATER MATRIX)
METHOD: EPA 8020, 5030 GC/FID

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	540	0.3
Toluene	108-88-2	230	0.3
Ethylbenzene	100-41-4	80	0.3
Xylenes, Total	1330-20-7	360	1

PURGEABLE HYDROCARBONS AS:

Gasoline 4.2 mg/L 0.05 mg/L

ND = Not Detected

CHAIN-OF-CUSTODY RECORD

Project Number KE1025-2A-719		Project Name MILLERS CORP YARD				Analytical Tests Method 8015 - TPH as Gasoline Method 8015 - TPH as Diesel Method 8240 - Volatile Organics Method 8270 - Semi-Volatile Organics Method 8010 - Halogenated Volatile Organics Method 8080 - Organochlorine Pesticides & PCB's Waste Oil - Metals -	ITHGAC BIGX	Remarks
Location OAKLAND		Sampler's Name (printed) JEFF FIEDLER						
KA Sample I.D. Number	Lab Sample I.D. Number	Date	Soil	Water	Number/Type of Container			
MW-1	1AB	10/9		<input checked="" type="checkbox"/>	2 x 40 ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HCl Preserved
MW-2	2AB	↓		<input checked="" type="checkbox"/>	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	↓
MW-3	3AB	↓		<input checked="" type="checkbox"/>	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	↓
MW-1A	4AB	↓		<input checked="" type="checkbox"/>	↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UNPRESERVED
* Report gasoline per Jeff Fiedler 10/19/92								

Relinquished by: (Signature) <i>Jeff Fiedler</i>	Date/Time 10/19/92 1540	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>Denise Harrington</i>

Ship To: _____

Attention: _____

Phone No: _____

Requested Turnaround Time: **NORMAL**

Contact: **JEFF FIEDLER**

Please address correspondence and return cooler # _____ to:

Remarks:

Kaldveer Associates, Inc.
425 Roland Way
Oakland, California 94621
(415) 568-4001



Kaldveer Associates
Geoscience Consultants
A California Corporation