

6/2/94

MEETING
Mills College
5000 MacArthur Blvd.
Oakland, CA 94619

Attending: Dennis Laduzinsky, HARZA
David Johnson, Mills College
Juliet Shin, HMS

Toyon Meadow site: PPO Closure was requested for this site since no BTEX, and low levels of diesel have been identified in on-site wells since monitoring began. I stated that if they wished to proposed closure, they would first have to accurately characterize the extent and severity of diesel-contamination soil identified from former borings and overexcavation samples. Then a RISK Assessment would have to be submitted, assuring that no significant leaching or migration of contamination would occur in future. Also would have to address any potential risk to human health(students, etc.).

If efforts to delineate the extent of soil contamination at the site are not undertaken in the near future, semi-annual monitoring will have to continue out at this site until this work is implemented.

Still need Tank Removal report, prepared by Hine Brothers, and documentation for the disposal of excavated soil from the site. Mr. Laduzinsky stated that HARZA does not have any reports that the County does not already have.

Need timetable for intended work within the due date of the work plan, i.e., by June 27, 1994.

Corporation Yard: Qtrly monitoring will be required to continue at this site for all the monitoring wells due to the elevated levels of gas and BTEX being identified in the ground water and the elevated contaminant levels left in place at the site.

It is uncertain whether the new well, Well MW-4, and the other three on-site wells are hydraulically connected, since Well MW-4 appeared to be confined whereas the other wells did not. Apparently Seminary Avenue is an old creek bed and Mr. Johnson stated the possibility that Well MW-4 is picking up ground water flowing along Seminary Avenue instead of from the former tank area.

We discussed the option of Non Attainment Zones, and I stated that if they ever wished to opt for that, then they may have to conduct further source removal or remediation before their site qualifies for this option. Also, I stated that if they wished to continue monitoring Well MW-4 only, to confirm that ground water plume is not moving off site, then they would have to submit information to indicate that Wells MW-1,2,and 3, and hydraulically connected to MW-4.



PAINTING STUDIO

MHW-3
(85.44)

87

88

89

APPROXIMATE
LOCATION OF
FORMER TANK
EXCAVATION

(87.86)
MHW-1

MILLS HALL

(90.06)
MHW-2

WETMORE ROAD

LEGEND

MHW-1
⊙ APPROXIMATE LOCATION OF
MONITORING WELL

APPROXIMATE SCALE IN FEET



BASE: Provided by Mills College, Dated 3/88

LOCATION OF GROUND WATER
MONITORING WELLS

MILLS HALL/TOYON MEADOW
Oakland, California



Koldveer Associates
Geoscience Consultants
A California Corporation

PROJECT NO.	DATE	Figure
KE1025-3B-718	JUNE 1994	

TABLE 2

**SUMMARY OF GROUND WATER ANALYTICAL RESULTS
MILLS HALL/TOYON MEADOW
(reported in parts per million, mg/1)**

Monitoring Well/Date	TPH Diesel	TPH Oil	Benzene	Toluene	Ethylbenzene	Xylenes
<u>MHW-1</u>						
June 1991	0.06	ND	ND	ND	ND	ND
March 1992	ND	NA	ND	ND	ND	ND
October 1992	0.09	ND	ND	ND	ND	ND
May 1994*	ND	NA	ND	ND	ND	ND
<u>MHW-2</u>						
June 1991	3.2	ND	ND	ND	ND	ND
March 1992	0.1	NA	ND	ND	ND	ND
October 1992	0.61	ND	ND	ND	ND	ND
May 1994	0.2	NA	ND	ND	ND	ND
<u>MHW-3</u>						
June 1991	ND	ND	ND	ND	ND	ND
March 1992	ND	NA	ND	ND	ND	ND
October 1992	ND	ND	ND	ND	ND	ND
May 1994	ND	NA	ND	ND	ND	ND

Notes:

TPH: Total petroleum hydrocarbons

NA: Not analyzed

ND: Not detected

*Well MHW-1 was replaced on May 2, 1994, prior to the monitoring event.

TABLE 1

GROUND WATER ELEVATION DATA
MILLS HALL/TOYON MEADOW
(all values reported in feet)

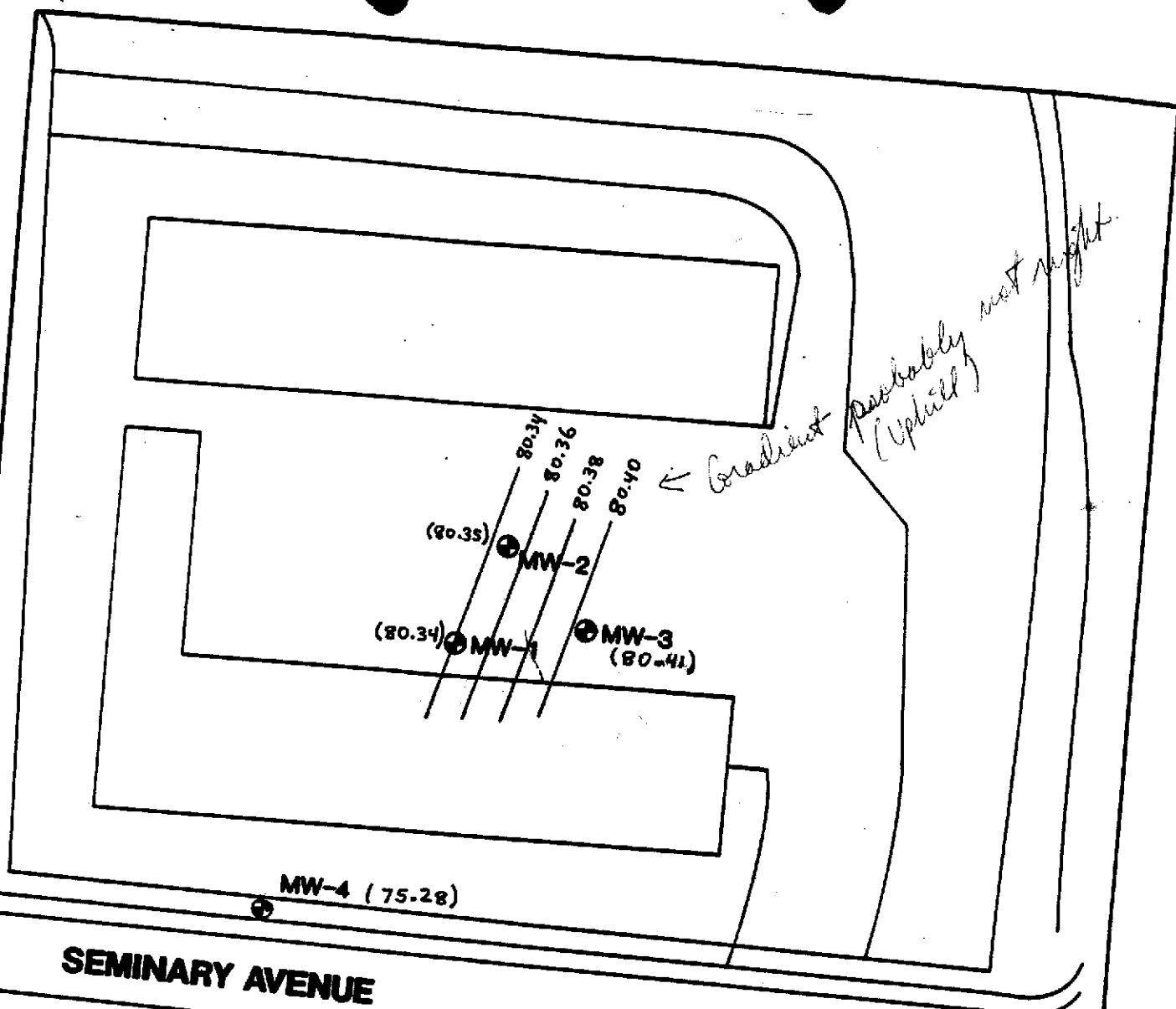
Monitoring Well	Relative Well Top Elevation (1)	Depth to Water	Ground Water Elevation
<u>June 1991</u>			
MHW-1	99.53	11.92	87.61
MHW-2	100.00	10.32	89.68
MHW-3	98.01	12.45	85.56
<u>March 1992</u>			
MHW-1	99.53	9.95	89.58
MHW-2	100.00	8.26	91.74
MHW-3	98.01	11.12	86.89
<u>October 1992</u>			
MHW-1	99.53	12.98	86.55
MHW-2	100.00	11.19	88.81
MHW-3	98.01	12.79	85.22
<u>May 1994</u>			
MHW-1*	99.50	11.64	87.86
MHW-2	100.00	9.94	90.06
MHW-3	98.04	12.60	85.44

Notes:

(1) Well-top elevations based on arbitrary datum of 100.00 feet at MHW-2.

(2) Well-top elevations were resurveyed in May 1994.

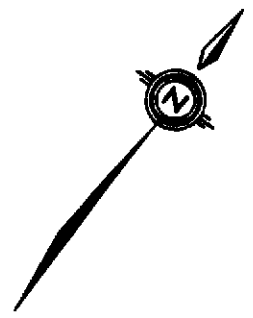
*Well MHW-1 was replaced on May 2, 1994, prior to the monitoring event.



SEMINARY AVENUE

LEGEND

⊕ Existing Monitoring Well Location



HARZA KALDVEER
Consulting Engineers

SITE PLAN

MILLS CORPORATION YARD
Oakland, California

PROJECT NO.	DATE	Figure
KE1025-2B-2016	JUNE 1900	

TABLE 2

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

Monitoring Well/Date	TPH				
	Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
<u>MW-1</u>					
June 1989	11	2.1	1.9	0.031	1.4
December 1990	2.5	0.4	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	0.2
October 1992(D)	4.2	0.54	0.23	0.08	0.36
May 1994	3.4	0.6	0.11	0.11	0.15
<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
May 1994	0.2	0.084	0.0006	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
May 1994	ND	0.005	ND	ND	ND
<u>MW-4</u>					
May 1994	ND	ND	ND	ND	ND

Notes:

TPH: Total Petroleum Hydrocarbons

ND: Not detected; see laboratory reports for specific method reporting limits.

(D): Duplicate sample analytical results

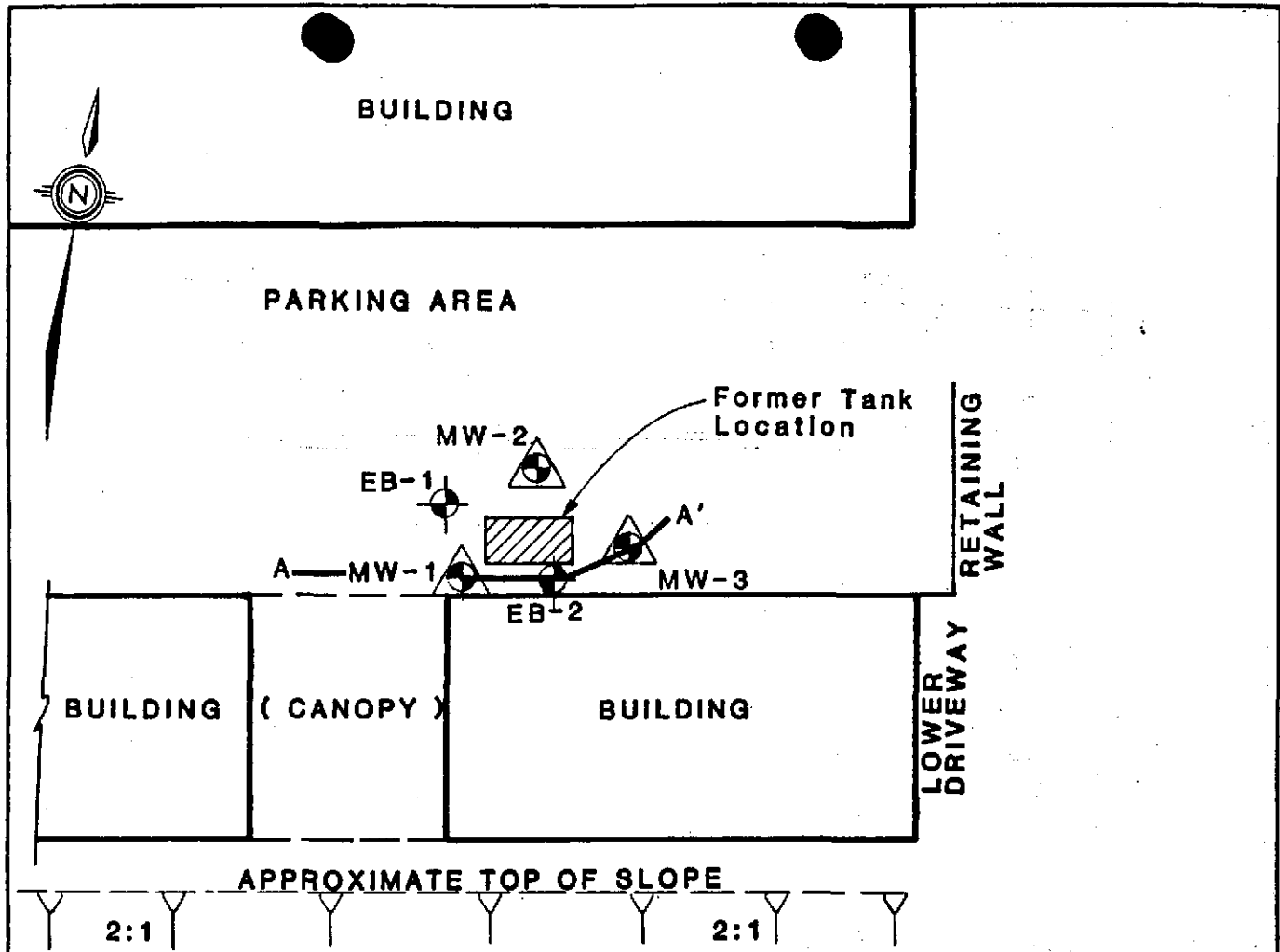
TABLE 1

GROUND WATER ELEVATION DATA
MILLS COLLEGE CORPORATION YARD
(all values reported in feet)

Monitoring Well	Relative Well Top Elevation (1)	Depth to Water	Ground Water Elevation
<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	80.13
MW-2	99.98	19.92	80.06
MW-3	100.01	19.82	80.19
<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
<u>May 1994</u>			
MW-1	100.00	19.66	80.34
MW-2	99.97	19.62	80.35
MW-3	100.01	19.60	80.41
MW-4	88.88	13.60	75.28

Notes:

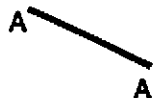
- (1) Well-top elevations based on arbitrary datum of 100.00 feet at MW-1.
(2) Well-top elevations were resurveyed in May 1994.



LEGEND

EB-1  Approximate Location of Soil Boring

MW-3  Approximate Location of Monitoring Well

A  Location of Cross-Section Shown on Figure 4

APPROXIMATE SCALE (FEET)



Base: After Blaine Tech Services Inc., 1988



Kaldveer Associates
Geoscience Consultants
A California Corporation

SITE PLAN

MILLS COLLEGE
CORPORATION YARD FACILITY
Oakland, California

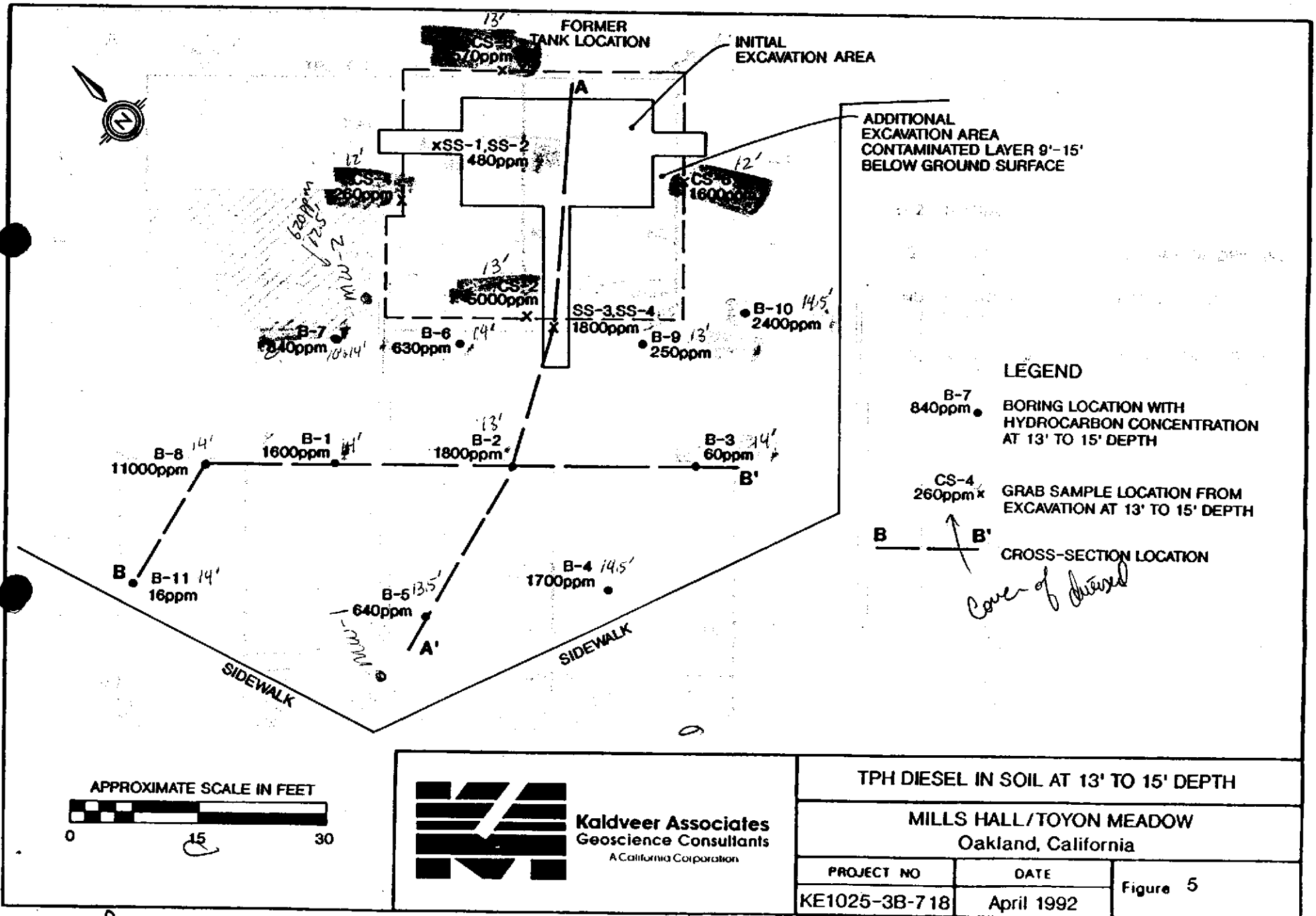
PROJECT NO.

DATE

KE1025-2A-719

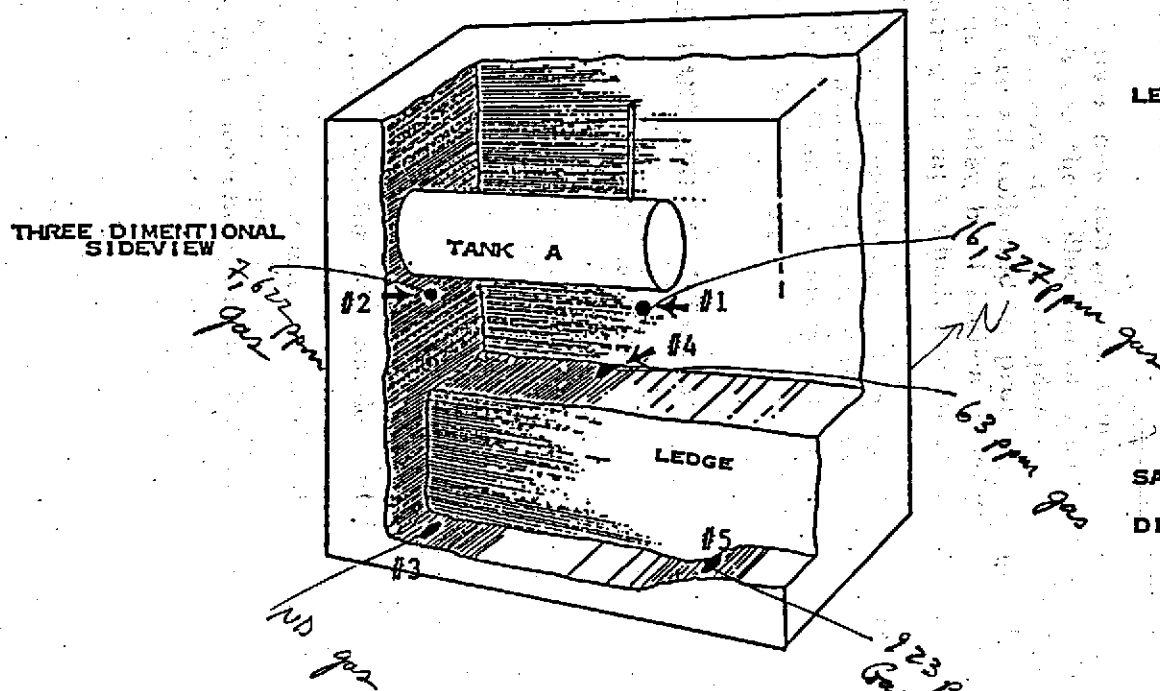
May 1991

Figure 3



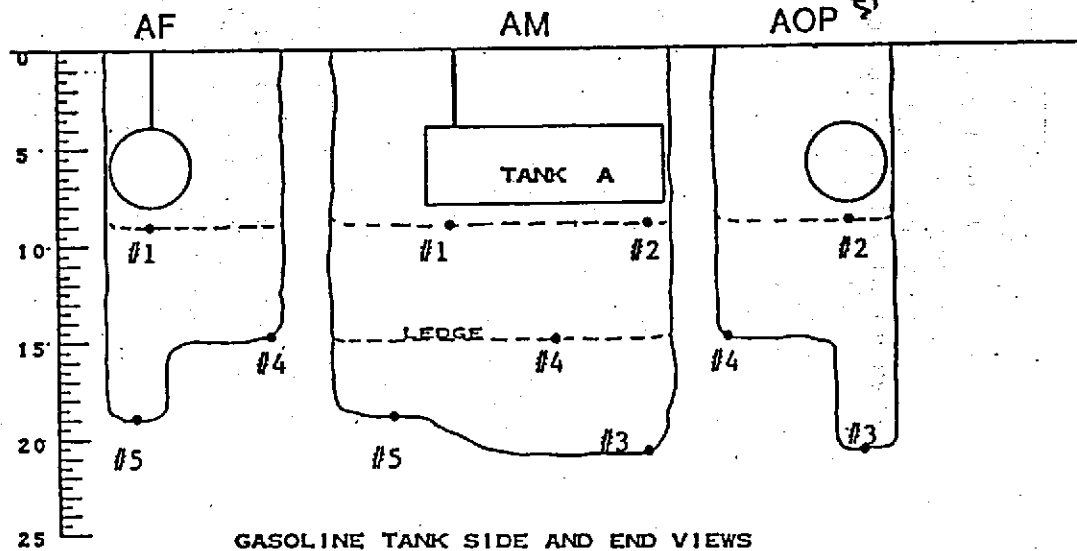
Handwritten signature/initials

DIAGRAM THREE



LEGEND: AF == FILL END
AM == MIDDLE
AOP == OPPOSITE END

SAMPLING PERFORMED BY
STEPHEN CARTER
DIAGRAMS PREPARED BY
BRENT ADAMS



GASOLINE TANK SIDE AND END VIEWS

On Campus

- Off-street Parking area; includes handicapped parking
- One-way Street
- Fitness Trail
- Creek

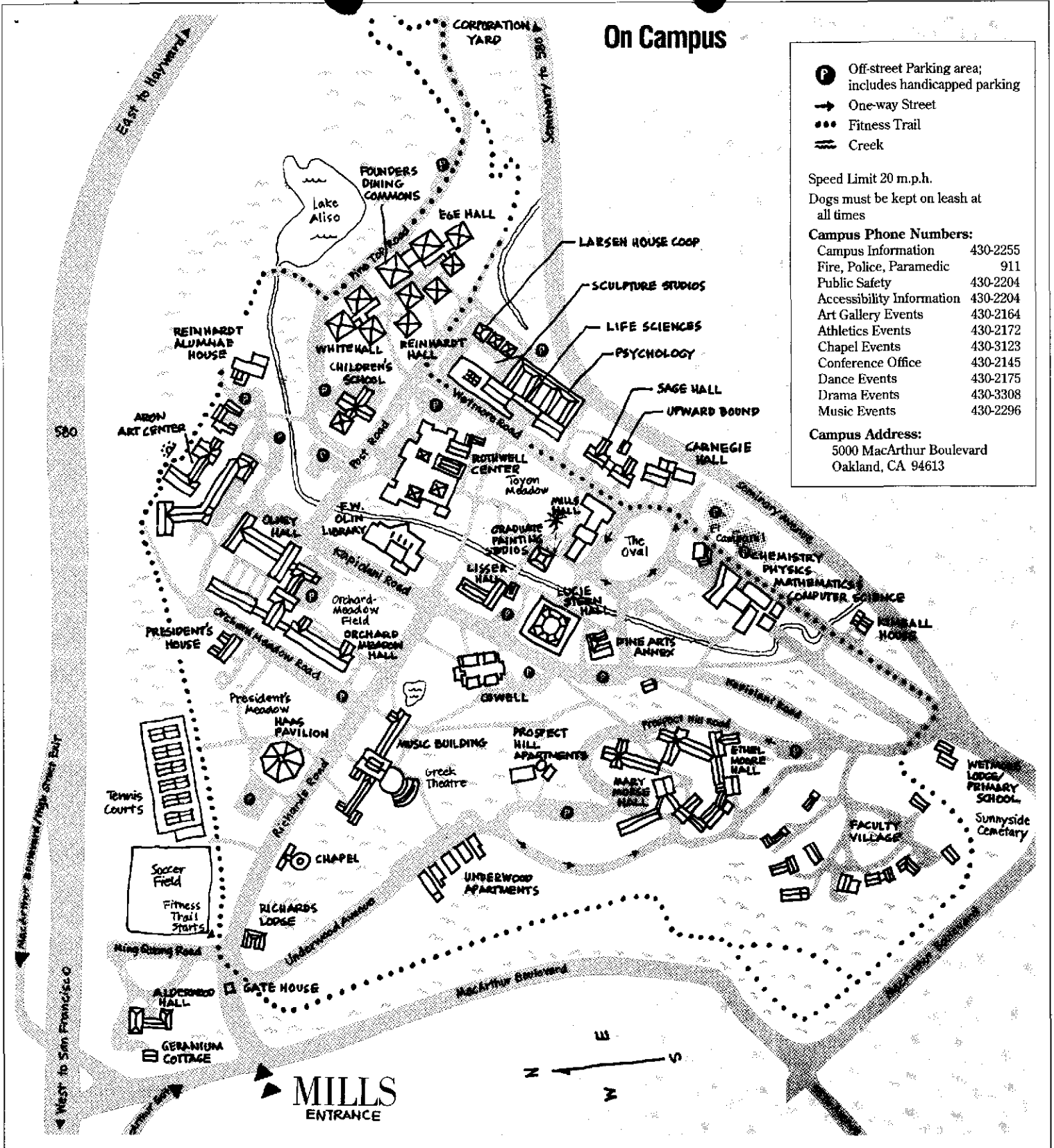
Speed Limit 20 m.p.h.

Dogs must be kept on leash at all times

Campus Phone Numbers:

Campus Information	430-2255
Fire, Police, Paramedic	911
Public Safety	430-2204
Accessibility Information	430-2204
Art Gallery Events	430-2164
Athletics Events	430-2172
Chapel Events	430-3123
Conference Office	430-2145
Dance Events	430-2175
Drama Events	430-3308
Music Events	430-2296

Campus Address:
5000 MacArthur Boulevard
Oakland, CA 94613



MILLS