



October 14, 1999

STID 2468

ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

REMEDIAL ACTION COMPLETION CERTIFICATION

Jim O'Laughlin
P.O. Box 400
Sunol, CA 94583-0904

RE: (Former) Sunol Chevron, 11727 Main Street, Sunol

Dear Mr. O'Laughlin:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Environmental Health Services

Attachment

c: Chuck Headlee, RWQCB
Dave Deaner, SWRCB (w/attachment)
SOS/files

- signed copy -

01-0317

CALIFORNIA REGIONAL WATER

DEC 0 5 1996

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

QUALITY CONTROL BOARD

I. AGENCY INFORMATION

Date: 11/15/96

Agency name: Alameda County-EPD Address: 1131 Harbor Bay Pkwy #250
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Scott Seery Title: Sr. Haz. Materials Spec.

II. CASE INFORMATION

Site facility name: Sunol Chevron
Site facility address: 11727 Main St., Sunol 94586
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2468
URF filing date: 03/06/90 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Jim O'Laughlin	P.O. Box 400 Sunol, CA 94586	(510) 862-2550

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	1000	gasoline	removed	02/07/90
2	1000	"	"	"
3	750	diesel	"	"
4	260	"	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: UNK (probable overfilling)

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? YES Number: 3

Proper screened interval? YES

Highest GW depth below ground surface: 24.15' Lowest depth: 33.22'

Flow direction: SW - WNW

Most sensitive current use: commercial

Are drinking water wells affected? NO Aquifer name: Sunol subbasin

Is surface water affected? NO Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NONE

17 JAN 2 1997
QUALITY CONTROL BOARD

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Report(s) on file? **YES** Where is report filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>of Disposal w/destination)</u>	<u>Date</u>
Tank	(2x1000; 750; 260 gal)	<u>Disposal</u> - H&H Ship Svc San Francisco, CA	02/07/90
Piping	> 20'	UNK	02/14/90
Free Product	NA		
Soil	UNK	<u>Treatment (aeration)</u> - on site	02/07/90 to present
Groundwater Barrels			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb) ³	
	Before ¹	After ²	Before	After
TPH (Gas)	1100	ND	ND	200
TPH (Diesel)	200	50	840	100
TPH (kerosene)	NA	NA	NA	300
Benzene	2.4	ND	ND	0.6
Toluene	12	"	"	ND
Xylene	18	0.0076	"	"
Ethylbenzene	6.2	ND	"	"

- Note:
- 1) "Before" soil sample results (except TPH-D) from sample SS#5 collected from the gasoline UST excavation @ 10' depth during 2/90 closures. "Before" TPH-D result from sample SS#1 collected @ 7' depth from diesel UST excavation.
 - 2) "After" soil results for TPH-G, BTE from sample SS#5A collected from gasoline UST pit @ 15' depth following limited overexcavation. "After" TPH-D and X result from sample PL#2 collected from piping trench @ 3' depth.
 - 3) All water results from well MW-1 for samples collected between 11/90 and 6/95.

Comments (Depth of Remediation, etc.):

This site was formerly the oldest operating gasoline station in Alameda County prior to the fire which destroyed it during the late 1980's. Four fuel USTs were eventually removed from this site during February 1990. Two tanks previously stored gasoline, two diesel. None exhibited throughgoing holes. Tanks were surrounded by native alluvial materials comprised of sand and sandy gravel with occasional boulders.

Leaking Underground Fuel Storage Tank Program

Initial soil sample results from the north end of the gasoline UST pit revealed elevated concentrations of gasoline compounds (up to 1100 ppm TPH-G and 2.4 ppm benzene) at 10' BG. Limited overexcavation ensued, reducing concentrations in the 15' confirmation sample to below detection limits for targeted fuel components. Samples collected from piping revealed minor impact by fuel compounds at the 3' sampling depth.

Excavated soil was spread on-site to facilitate aeration, where it remains today. Both pits were reportedly backfilled with clean import. The site remains vacant to this date.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES
Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

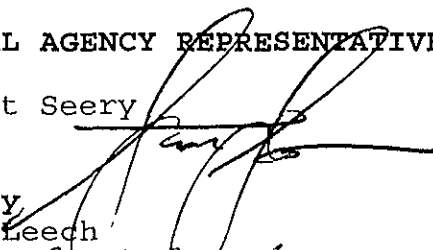
Monitoring wells Decommissioned: NO (pending case closure)

Number Decommissioned: 0 Number Retained: 3 (pending case closure)


List enforcement actions taken: NONE

List enforcement actions rescinded: NA


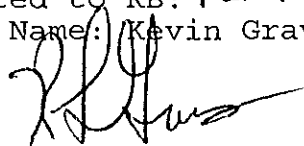
V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Sr. Haz Mat Specialist
Signature:  Date: 12-4-96

Reviewed by
Name: Amy Leech Title: Haz Mat Specialist
Signature:  Date: 11/25/96

Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature:  Date: 12-4-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 12-4-96 RB Response: 
RWQCB Staff Name: Kevin Graves Title: San. Eng. Assoc. Date: 12/11/96


Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

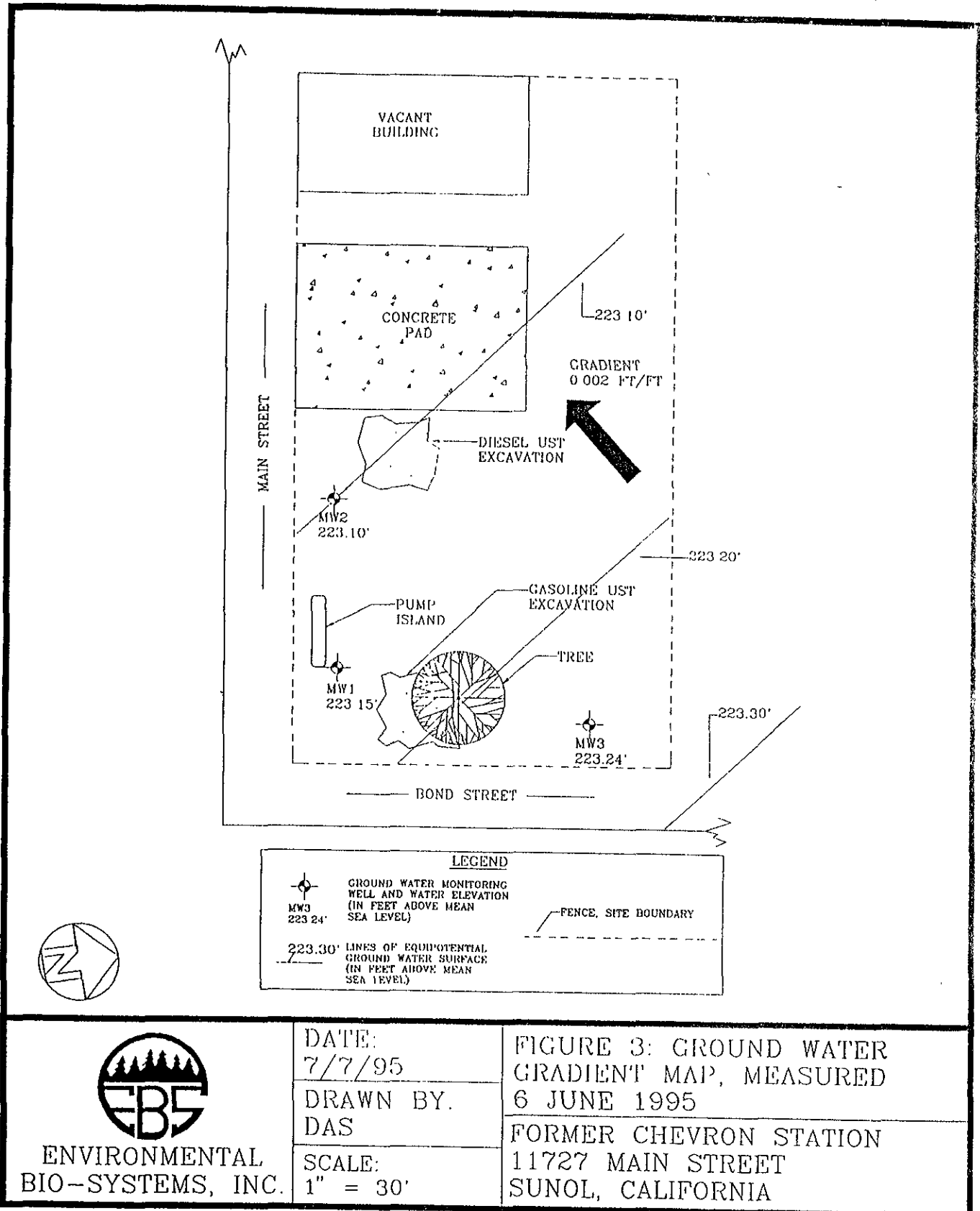
An exploratory boring was advanced through the cobble- and boulder-rich alluvium during July 1990 to a depth of 100' BG using an air-rotary rig. The bore hole was temporarily backfilled with Monterey sand. In October 1990, a monitoring well (MW-1) was installed within this borehole. The initial July water level (~ 62' BG) guided the eventual construction of the well which was screened between 45 and 65' BG. Water levels gauged during November 1990 within the completed well, however, indicated the top of the well screen was inundated, as water levels had (apparently) risen some 30 feet.

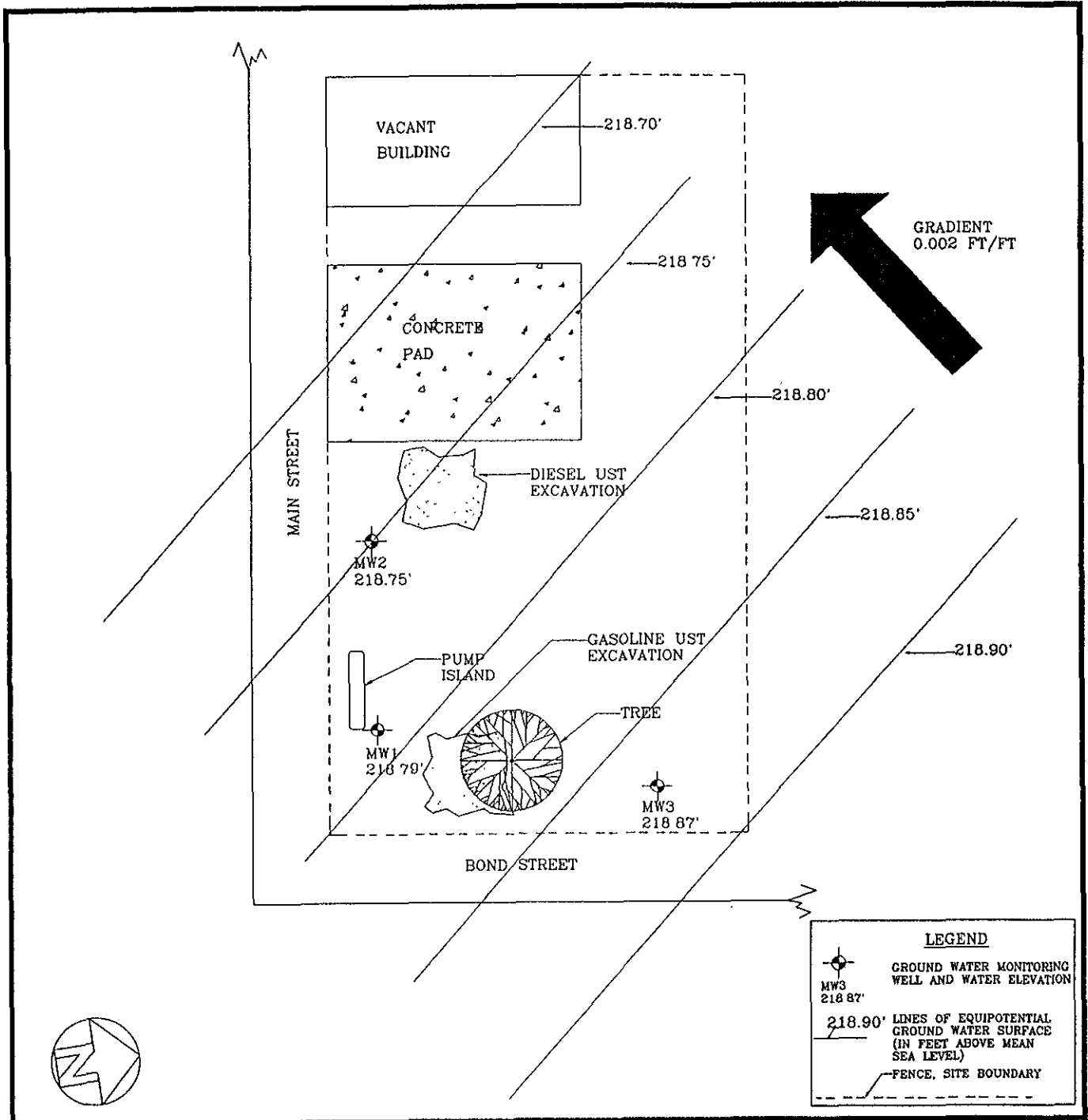
Initial water samples showed only low concentrations of TPH-D. No soil samples were collected due to the nature of the initial drilling technique.

Well MW-1 was the sole well at the site between 11/90 and 12/92. Two additional wells (MW-2 and -3) were constructed in July 1993 to confirm flow direction. "Soil" samples collected during advancement of these additional borings identified no detectable contaminants, except for the presence of 20 ppm TPH-D in the 20' sample collected from MW-3, located nearest the gasoline UST excavation.

Well MW-1 was sampled quarterly through July 1993; all three wells were sampled annually for two additional years, the final event occurring in June 1995. Periodic "hits" for gas, kerosene and diesel-range compounds were identified in water sampled from MW-1, only, during the sampling period. Up to 0.6 ug/l benzene, 500 mg/l TPH-G, 840 mg/l TPH-D and 2200 mg/l TPH-kerosene were identified.

Well placement was adequate to confirm that a significant impact to underlying ground water and "soil" did not occur.





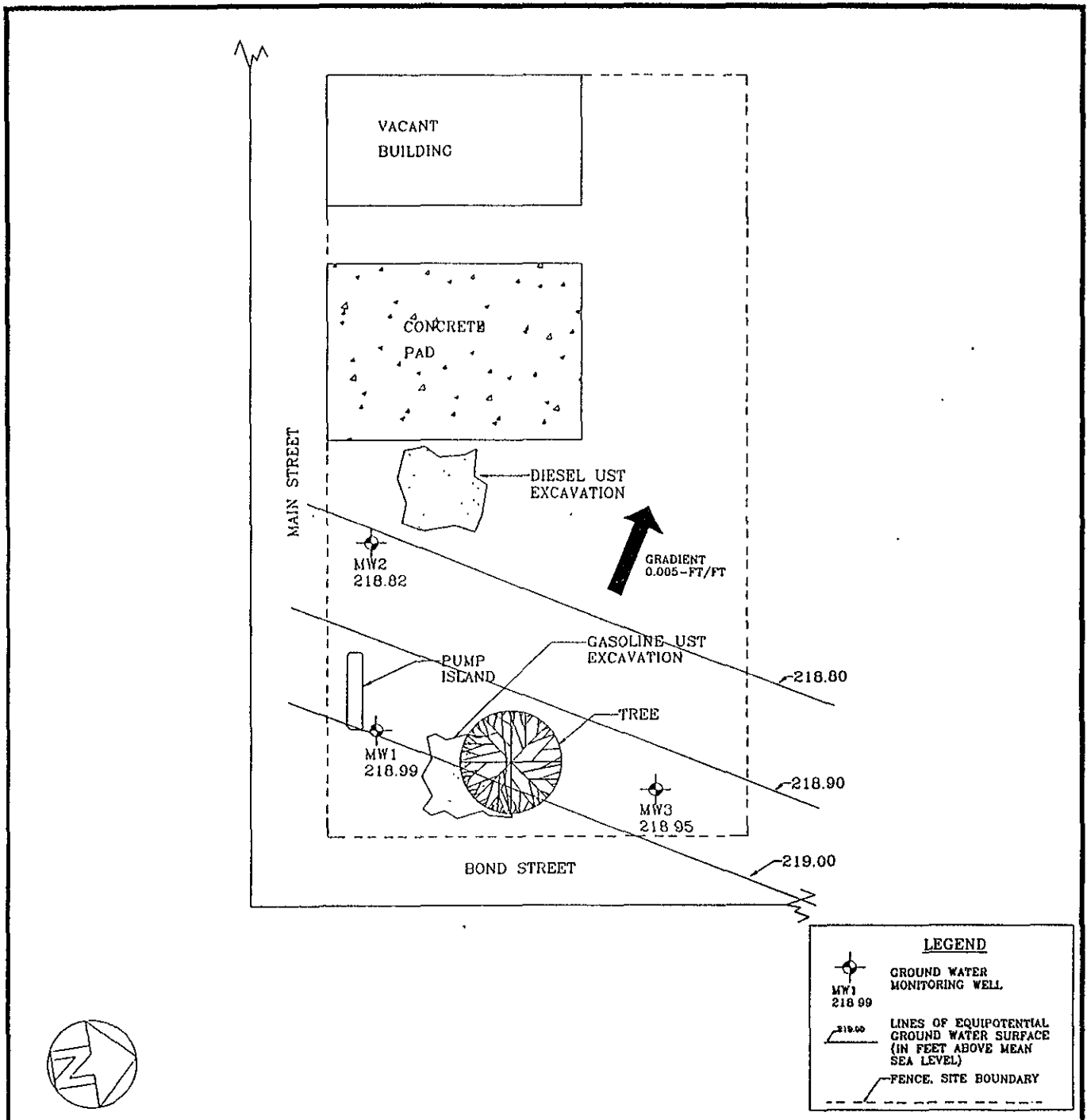
DATE:
5/13/94
DRAWN BY:
DAS
SCALE:
1" = 30'

FIGURE 2: GROUND WATER
GRADIENT MAP, MEASURED
19 APRIL 1994
Former Chevron Station
11727 Main Street
Sunol, California

13 May 1994

Mr. Jim O'Laughlin

Appendix D



LEGEND	
	GROUND WATER MONITORING WELL
MW1 218.99	
	LINES OF EQUIPOTENTIAL GROUND WATER SURFACE (IN FEET ABOVE MEAN SEA LEVEL)
219.00	
	FENCE, SITE BOUNDARY

ENVIRONMENTAL
BIO-SYSTEMS, INC.

DATE:
5/13/94

DRAWN BY:
DAS

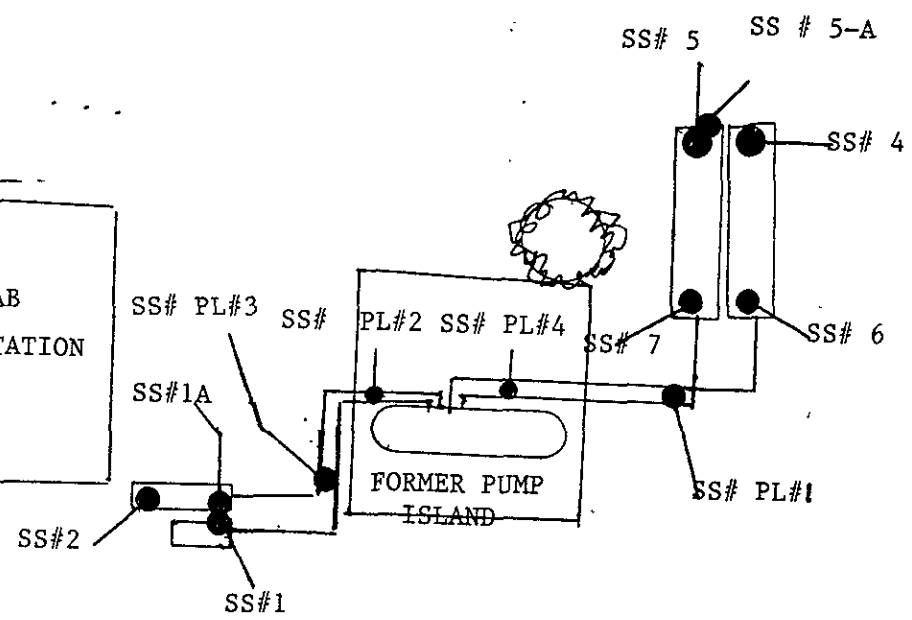
SCALE:
1" = 30'

FIGURE 1: GROUND WATER GRADIENT MAP, MEASURED 1 JULY 1993

Former Chevron Station
11727 Main Street
Sunol, California

AUTO
REPAIR SHOP

CONCRETE SLAB
FORMER SERVICE STATION



**SAMPLE
DEPTH**

SEE CLOSURE
REPORT

LEGEND

- SAMPLE LOCATIONS
- [Large Rectangle] 1000 GAL TANKS
- [Medium Rectangle] 750 GAL TANK
- [Small Rectangle] 260 GAL TANK
- PRODUCT LINES

JIM O'LAUGHLIN TANK REMOVAL PROJECT
11727 MAIN STREET
SUNOL CALIFORNIA

SCALE:
DATE:

APPROVED BY:

DRAWN BY
PLAN VIEW

HAGEMAN-SCHANK, INC

DRAWING NUMBER

TABLE 1: RESULTS OF GROUND WATER SAMPLE ANALYSES

Well	Date	<i>mg/l</i>			<i>µg/l</i>				TOG
		TPHg	TPHd	TPHk	B	T	E	X	
MW1	11/13/90	ND	0.84	NA	ND	ND	ND	ND	--
MW1	2/26/91	ND	ND	NA	ND	ND	ND	ND	--
MW1	5/16/91	ND	ND	NA	ND	ND	ND	ND	--
MW1	8/19/91	0.26	0.22	NA	0.6	ND	0.7	3.1	--
MW1	12/20/91	0.50	0.48	NA	ND	ND	ND	1.7	--
MW1	2/12/92	0.44	ND	2.20	0.6	0.6	0.6	2.9	--
MW1	5/13/92	ND	ND	0.28	ND	ND	0.6	3.6	ND
MW1	8/10/92	ND	0.65	0.52	ND	ND	ND	ND	--
MW1	12/4/92	ND	0.18	0.12	ND	ND	ND	ND	ND
MW1	2/22/93	ND	ND	ND	ND	ND	ND	ND	ND
MW1	7/1/93	ND	ND	0.3	ND	ND	ND	ND	--
MW1	4/19/94	0.3	ND	0.63	0.6	ND	ND	ND	--
MW1	6/6/95	0.2	0.1	0.3	0.6	ND	ND	ND	--
MW2	7/1/93	ND	ND	ND	ND	ND	ND	ND	--
MW2	4/19/94	ND	ND	ND	ND	ND	ND	ND	--
MW2	6/6/95	ND	ND	ND	ND	ND	ND	ND	--
MW3	7/19/93	ND	ND	ND	ND	ND	ND	ND	--
MW3	4/19/94	ND	ND	ND	ND	ND	ND	ND	--
MW3	6/6/95	ND	ND	ND	ND	ND	ND	ND	--

LEGEND

TPHg: Total Petroleum Hydrocarbons as Gasoline (mg/L)
 TPHd: Total Petroleum Hydrocarbons as Diesel (mg/L)
 TPHk: Total Petroleum Hydrocarbons as Kerosene (mg/L)
 BTEX: Benzene, Toluene, Ethylbenzene, Xylene Isomers (µg/L)
 TOG: Total Oil and Grease (mg/L)
 ND: Not Detected
 --: Not Analyzed
 Note: Sampling conducted prior to 7/19/93 reported by HSI

TABLE 2. SOIL SAMPLING ANALYTICAL RESULTS

SAMPLE ID	TPHd (mg/kg)	TPHk (mg/kg)	TPHg (mg/kg)	BTEX (µg/kg)
MW2-5'	NA	NA	ND	ND
MW2-10'	ND	ND	ND	ND
MW2-15'	ND	ND	ND	ND
MW2-20'	ND	ND	ND	ND
MW2-25'	ND	ND	ND	ND
MW2-30'	ND	ND	ND	ND
MW2-34.5'	ND	ND	ND	ND
MW3-15'	20	ND	ND	ND
MW3-30'	ND	ND	ND	ND
DETECTION LIMIT	1	1	0.2	5

LEGEND

TPHd: Total Petroleum Hydrocarbons as Diesel

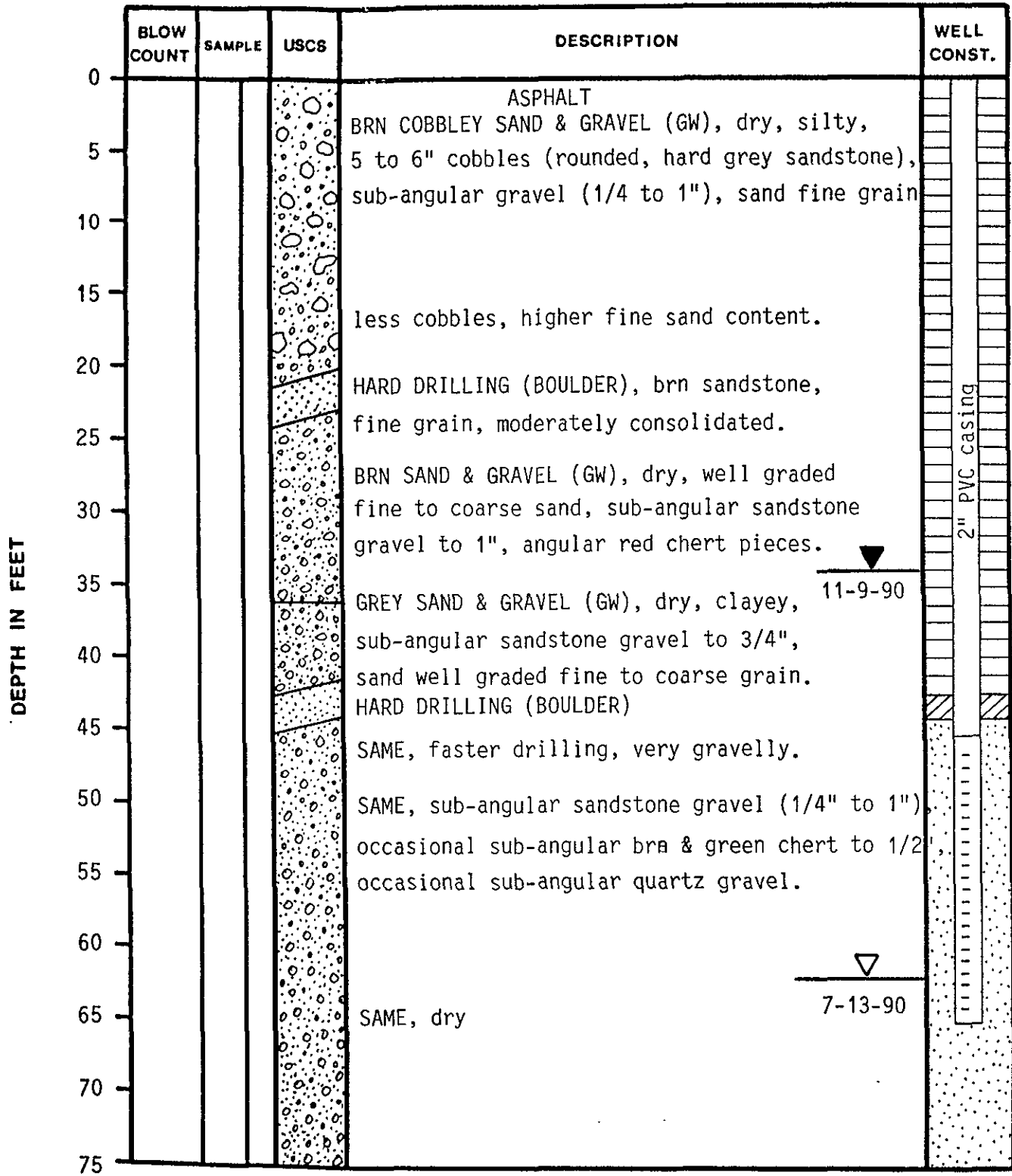
TPHk: Total Petroleum Hydrocarbons as Kerosene

TPHg: Total Petroleum Hydrocarbons as Gasoline

BTEX: Benzene, Toluene, Ethylbenzene, and Xylene Isomers

NA: Not Analyzed Due to Sample Matrix (High Rock Content)

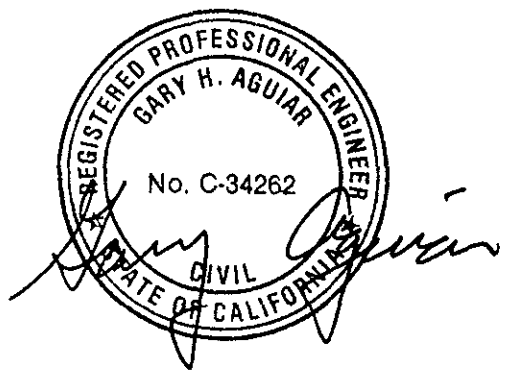
ND: Not Detected



HAGEMAN SCHANK, INC.		BORING B-1 / Monitoring Well MW-1 11727 Main Street, Sunol		FIGURE 1 of 2
DATE	7/13/90	PROJECT NO.		
TOC ELEVATION	Revised 10-30-90	EQUIPMENT 6" AIR ROTARY / 8" HOLLOW STEM AUGER		

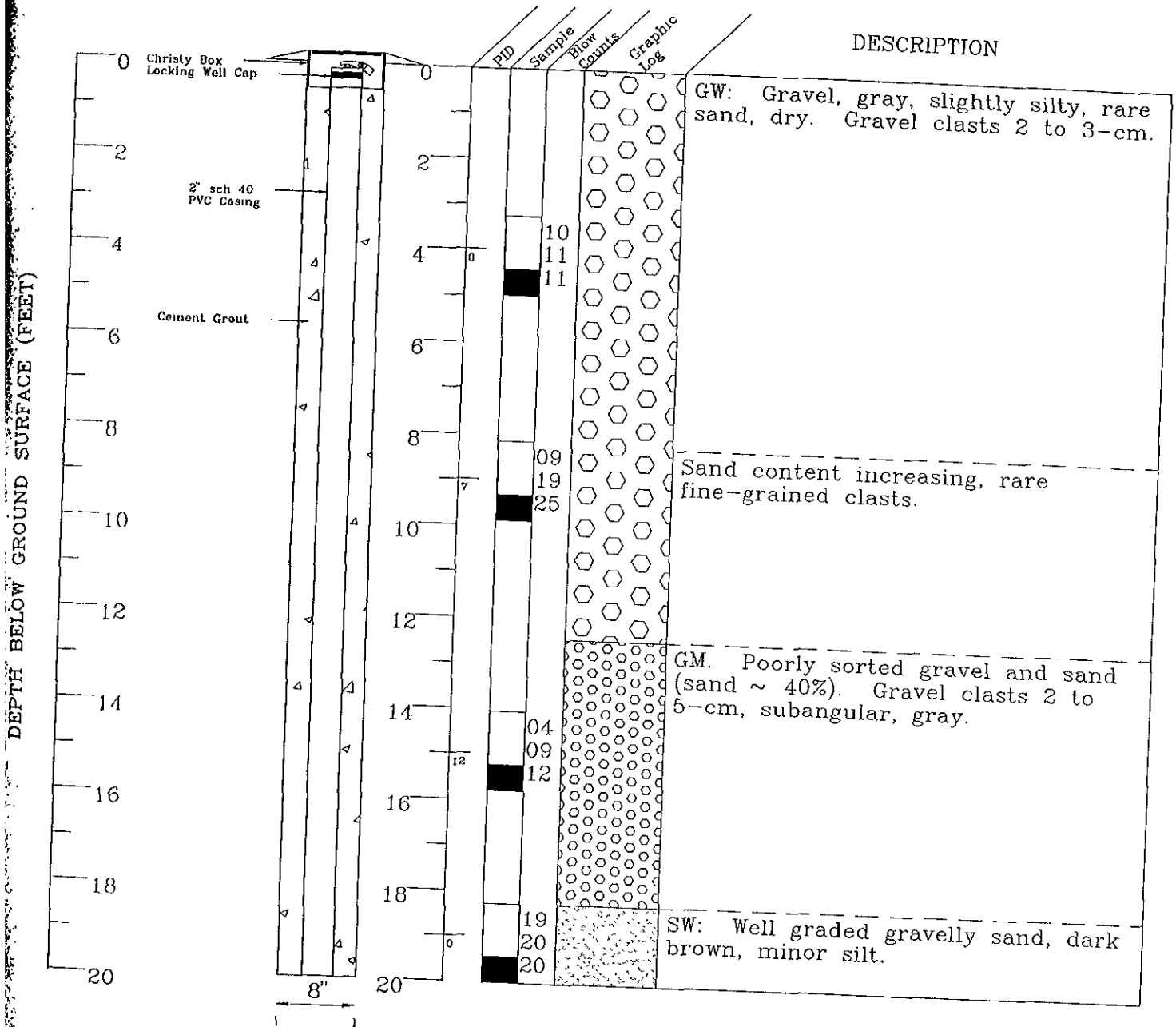
DEPTH IN FEET

BLOW COUNT	SAMPLE	USCS	DESCRIPTION	WELL CONST.
75				
80			GREY SANDY GRAVEL (GP), saturated, sub-angular 1/4" to 1/2", occasional coarse sand, grey sandstone gravel.	
85				
90				
95				
100			HARD DRILLING (BOULDER).	
			TOTAL DEPTH = 100 feet BLS	



HAGEMAN SCHANK, INC.	BORING B-1 / Monitoring Well MW-1 11727 Main Street, Sunol	FIGURE 2 of 2
DATE 7/13/90	PROJECT NO.	
TOC ELEVATION Revised 10-30-90	EQUIPMENT 6" AIR ROTARY / 8" HOLLOW STEM AUGER	

LOG OF SOIL BORING MW2



Designed by: L. Golub
 Contractor: N/A
 Date: 6/24/93

Drilling Contractor: Bayland
 Drilling Method: Hollow Stem
 Driller: Kurt

Sanitary Seal: Cement
 Sampler Type: Split Spoon
 Total Boring Depth: 50-Feet



ENVIRONMENTAL SYSTEMS, INC.

EXPLANATION

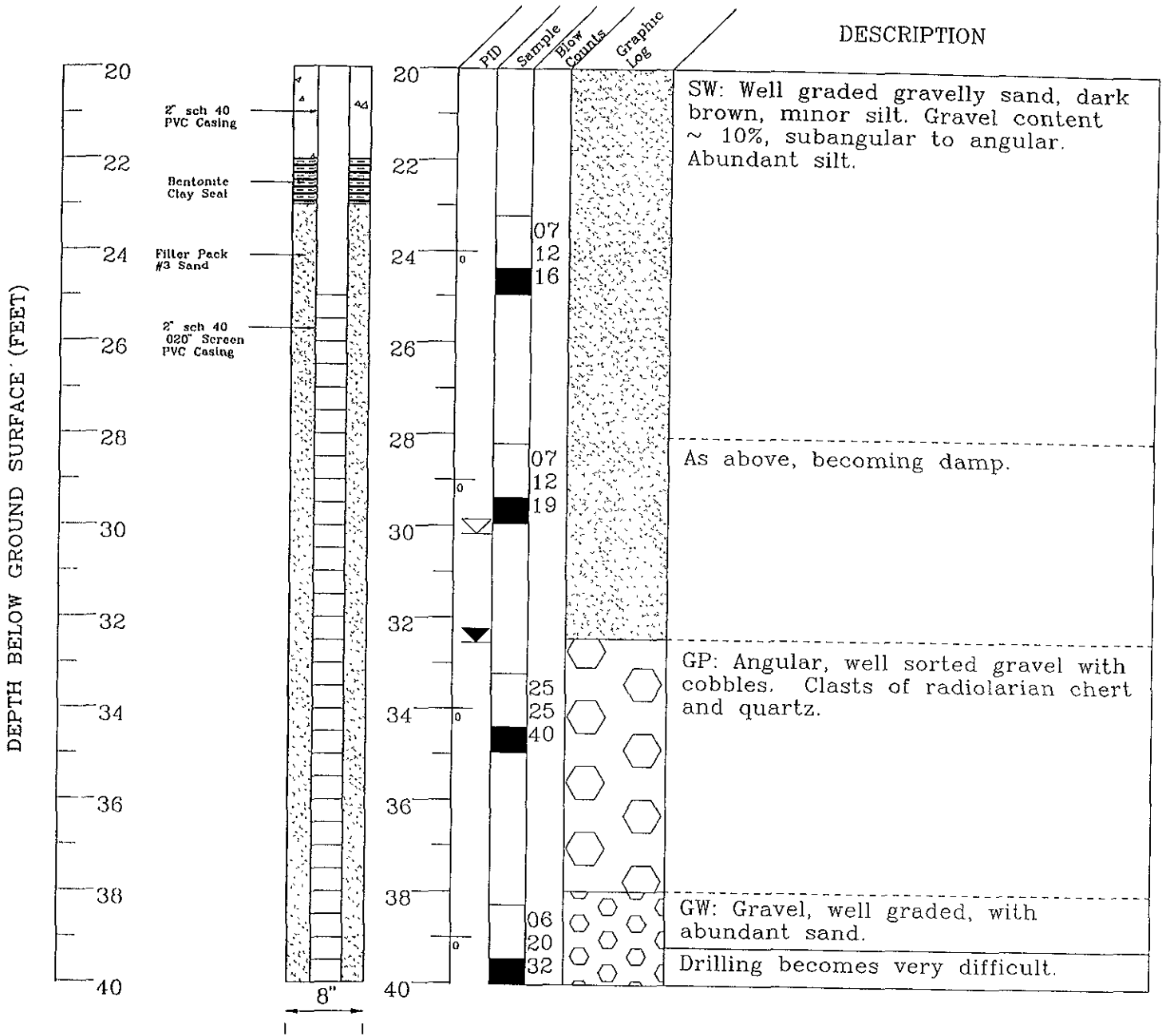
- water level during drilling
- gradational
- potentiometric water level
- NR no recovery
- drill sample
- chemical analysis sample
- sieve sample
- grab sample
- certain
- approximate
- uncertain

SITE:
 FORMER CHEVRON STATION
 11727 MAIN STREET
 SUNOL, CALIFORNIA

PROJECT #083-246-01B

CLIENT:
 Mr. Jim O'Laughlin
 P.O. Box 400
 Sunol, California

LOG OF SOIL BORING MW2



Logged by: L. Golub
 Inspector: N/A
 Date(s): 6/24/93

Drilling Contractor: Bayland
 Drilling Method: Hollow Stem
 Driller: Kurt

Sanitary Seal: Cement
 Sampler Type: Split Spoon
 Total Boring Depth: 50-Feet

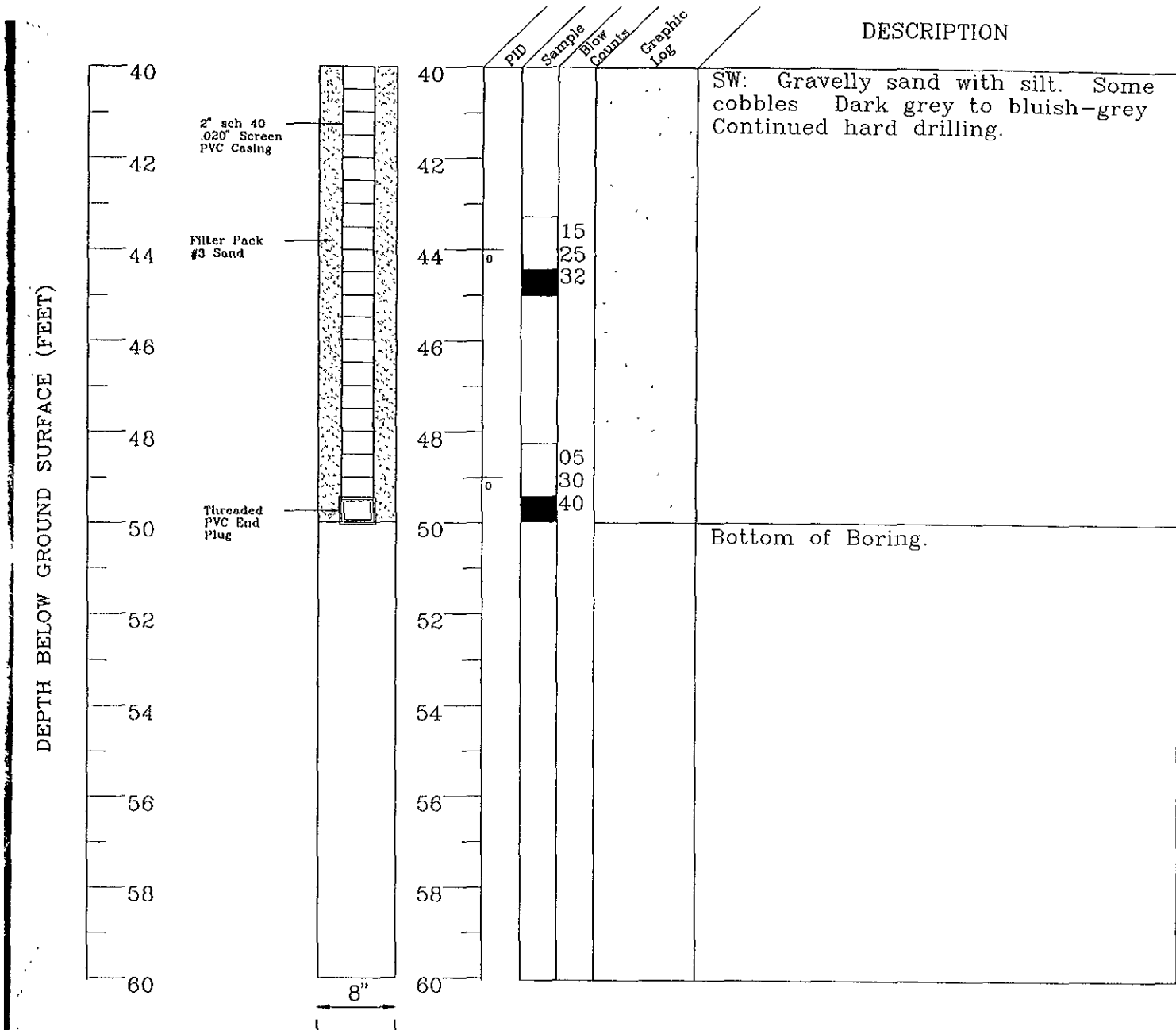


EXPLANATION	
	water level during drilling
	gradational
	potentiometric water level
	NR no recovery
	drill sample
	chemical analysis sample
	sieve sample
	grab sample
	CONTACTS: certain
	approximate
	uncertain

SITE:
 FORMER CHEVRON STATION
 11727 MAIN STREET
 SUNOL, CALIFORNIA

PROJECT #083-246-01B

CLIENT:
 Mr. Jim O'Laughlin
 P.O. Box 400
 Sunol, California



Logged by: L. Golub
 Inspector: N/A
 Date(s): 6/24/93

Drilling Contractor: Bayland
 Drilling Method: Hollow Stem
 Driller: Kurt

Sanitary Seal: Cement
 Sampler Type: Split Spoon
 Total Boring Depth: 50-Feet



**ENVIRONMENTAL
 BIO-SYSTEMS, INC.**

EXPLANATION

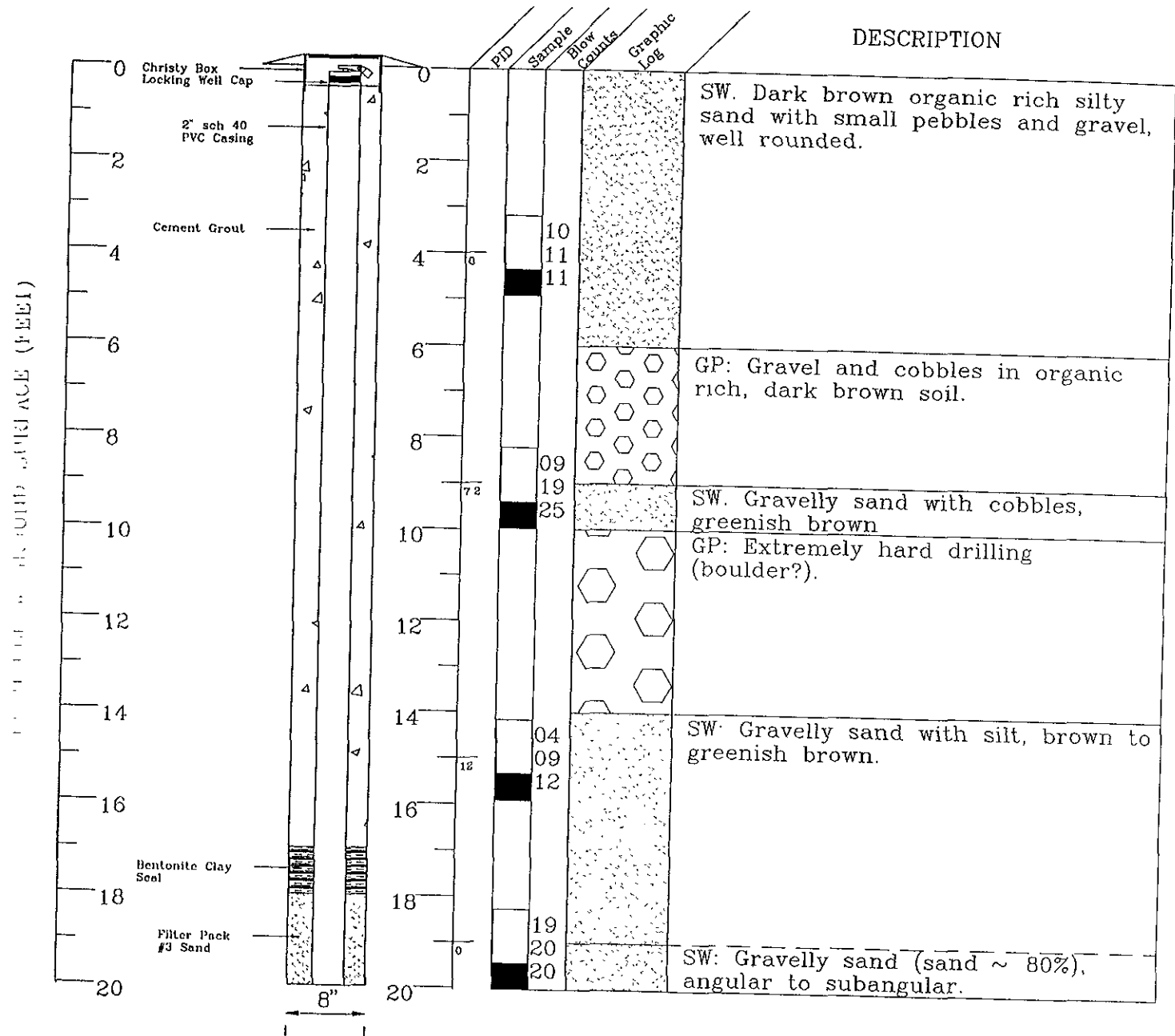
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|--|---|
| <ul style="list-style-type: none"> water level during drilling potentiometric water level drill sample chemical analysis sample sieve sample grab sample | <ul style="list-style-type: none"> gradational NR no recovery CONTACTS: — certain - - approximate - - uncertain |
|--|---|

SITE:
 FORMER CHEVRON STATION
 11727 MAIN STREET
 SUNOL, CALIFORNIA

PROJECT #083-246-01B

CLIENT:
 Mr. Jim O'Laughlin
 P.O. Box 400
 Sunol, California

LOG OF SOIL BORING MW3



Drilled by: L. Golub Contractor: N/A Date: 6/24/93	Drilling Contractor: Bayland Drilling Method: Hollow Stem Driller: Kurt	Sanitary Seal: Cement Sampler Type: Split Spoon Total Boring Depth: 45-Feet
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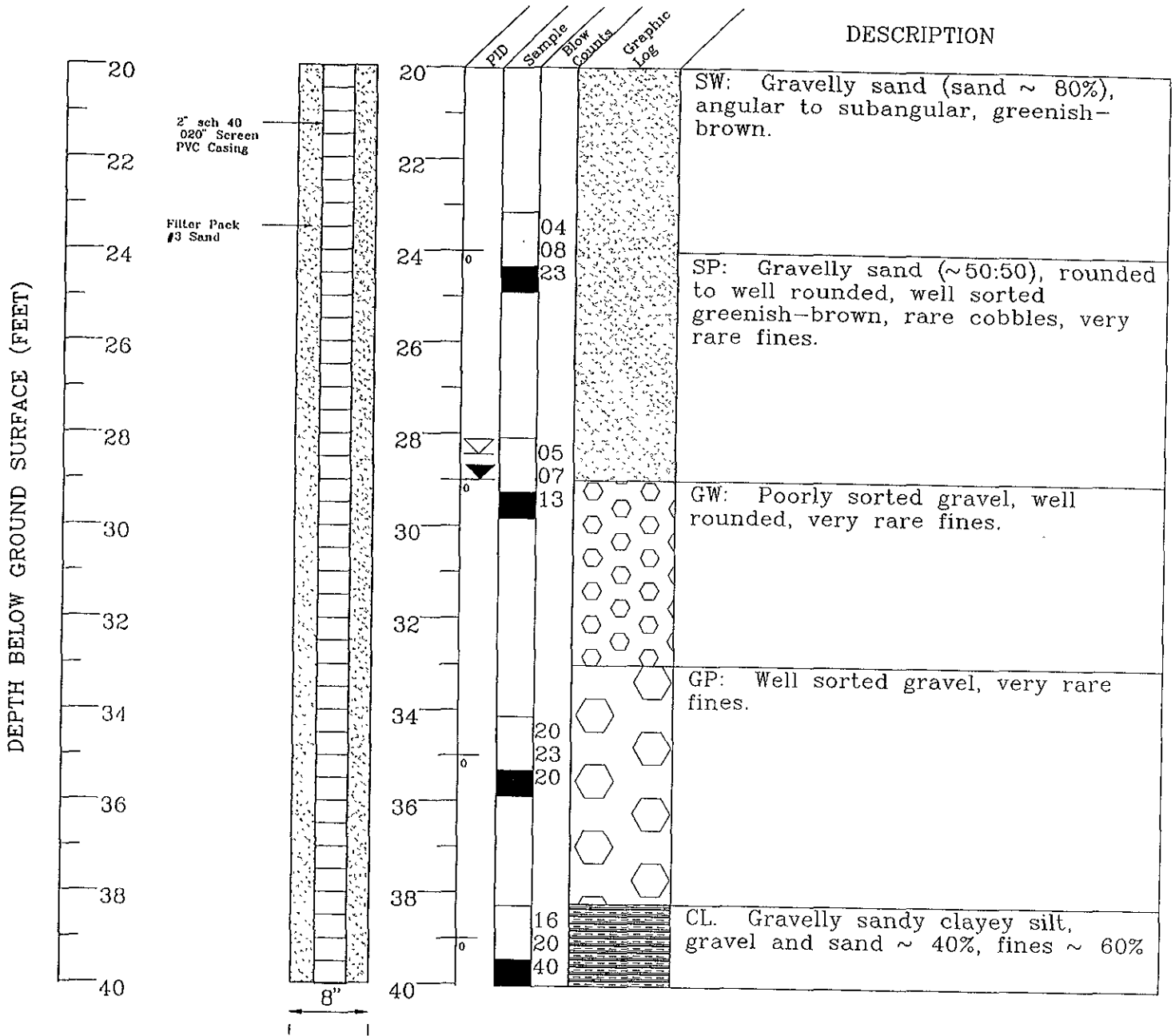
EXPLANATION

	water level during drilling		gradational
	potentiometric water level	NR	no recovery
	drill sample	CONTACTS:	
	chemical analysis sample	—	certain
	sieve sample	- - -	approximate
	grab sample	- - -	uncertain

SITE:
 FORMER CHEVRON STATION
 11727 MAIN STREET
 SUNOL CALIFORNIA

PROJECT #083-246-01B

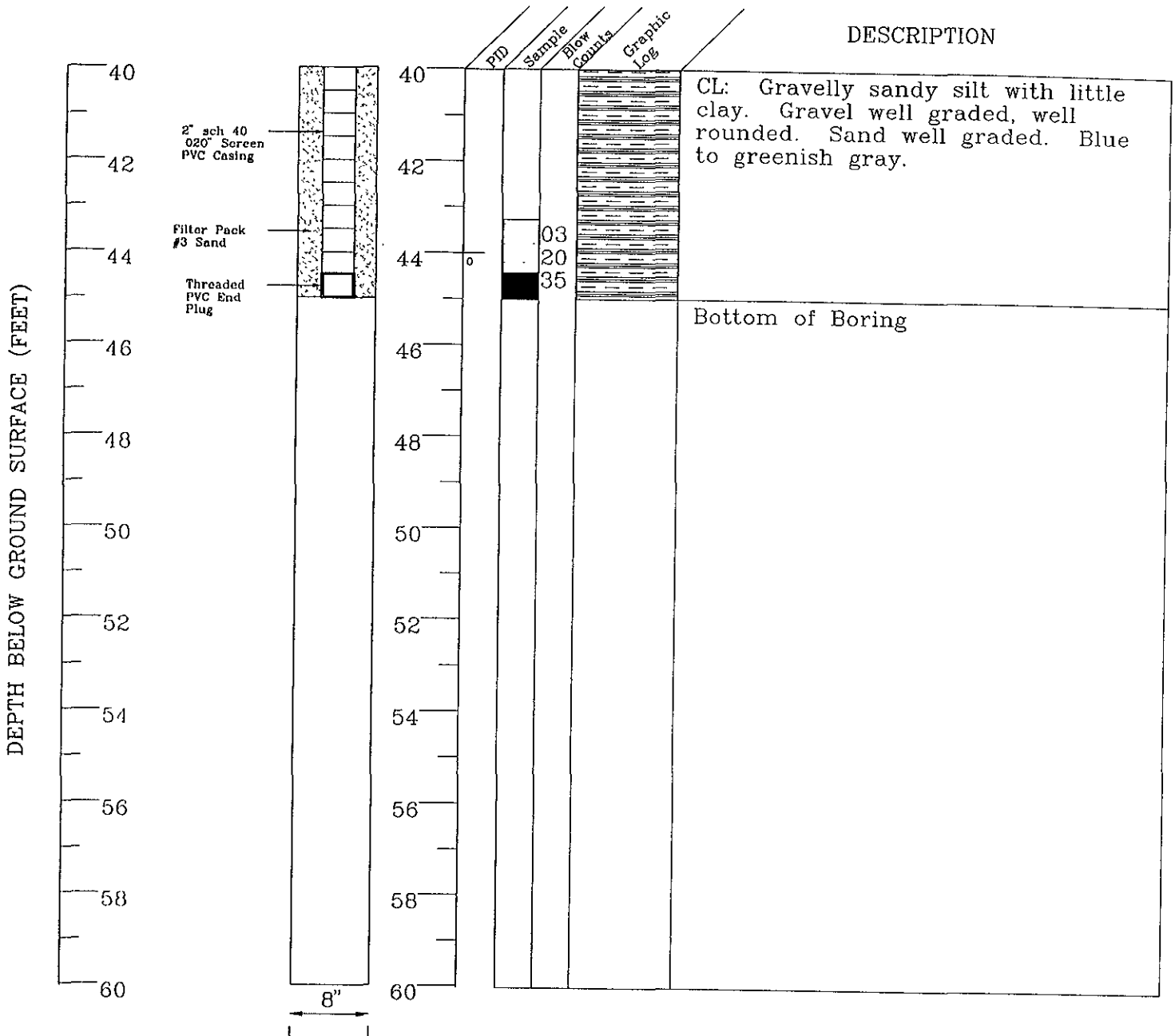
CLIENT:
 Mr. Jim O'Laughlin
 P.O.Box 400
 Sunol, California



Logged by: L. Golub Inspector: N/A Date(s): 6/24/93	Drilling Contractor: Bayland Drilling Method: Hollow Stem Driller: Kurt	Sanitary Seal: Cement Sampler Type: Split Spoon Total Boring Depth: 45-Feet
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<p>ENVIRONMENTAL SYSTEMS, INC.</p>	<h3 style="text-align: center;">EXPLANATION</h3> <table style="width: 100%;"> <tr> <td> water level during drilling</td> <td> gradational</td> </tr> <tr> <td> potentiometric water level</td> <td>NR no recovery</td> </tr> <tr> <td> drill sample</td> <td>CONTACTS:</td> </tr> <tr> <td> chemical analysis sample</td> <td>— certain</td> </tr> <tr> <td> sieve sample</td> <td>— approximate</td> </tr> <tr> <td> grab sample</td> <td>— uncertain</td> </tr> </table>	water level during drilling	gradational	potentiometric water level	NR no recovery	drill sample	CONTACTS:	chemical analysis sample	— certain	sieve sample	— approximate	grab sample	— uncertain	<p>SITE: FORMER CHEVRON STATION 11727 MAIN STREET SUNOL, CALIFORNIA</p> <hr/> <p>PROJECT #083-246-01B</p> <hr/> <p>CLIENT: Mr. Jim O'Laughlin P.O. Box 400 Sunol, California</p>
	water level during drilling	gradational												
potentiometric water level	NR no recovery													
drill sample	CONTACTS:													
chemical analysis sample	— certain													
sieve sample	— approximate													
grab sample	— uncertain													

LOG OF SOIL BORING MW3



Logged by: L. Golub
 Inspector: N/A
 Date(s): 6/24/93

Drilling Contractor: Bayland
 Drilling Method: Hollow Stem
 Driller: Kurt

Sanitary Seal: Cement
 Sampler Type: Split Spoon
 Total Boring Depth: 45-Feet



EXPLANATION	
water level during drilling	gradational
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chemical analysis sample	— certain
sieve sample	— approximate
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SITE:
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