

December 13, 1993

Chevron U.S.A. Products Company

2410 Camino Ramon San Ramon, CA 94583 P.O. Box 5004 San Ramon, CA 94583-0804

Marketing Department

Phone 510 842 9500

Ms. Eva Chu Alameda County Environmental Health 80 Swan Way, Room 200 Oakland, CA 94621

Re: Chevron Service Station No. 9-3356

19201 Center Street, Castro Valley, CA 94546

Dear Ms. Chu:

There appears to be a reasonable explanation why Alton Geoscience screened monitoring well MW-3 from 19 to 39 feet. When Alton was drilling B-3 (MW-3), they encountered a damp to saturated layer of soil between 5 and 15 feet. Beyond 15 feet, they encountered only dry soil. They probably made three assumptions. First, they probably assumed the soil at 10 feet was perched groundwater. Second, they probably assumed the depth to water at this location was similar to B-1 (MW-1), and third, they probably assumed the saturated layer of soil did not go beyond 17.5 feet. Because they did not want the perched water to influence the monitoring well, they probably decided to screen the well between the last sample that was damp (15 ft.) and the first sample that was dry (20 ft.). Hopefully, this explanation answers your question.

For your information, there has never been a dramatic change in the direction of groundwater, and there is only a minor difference between the screen interval and the depth to water.

Please refer to the boring log and well construction detail for additional information. If you have any questions or comments, please feel free to call me at (510) 842-8752.

Sincerely,

Chevron U.S.A. Products Co.

Kenneth Kan Engineer

LKAN/MacFile 9-3356R8

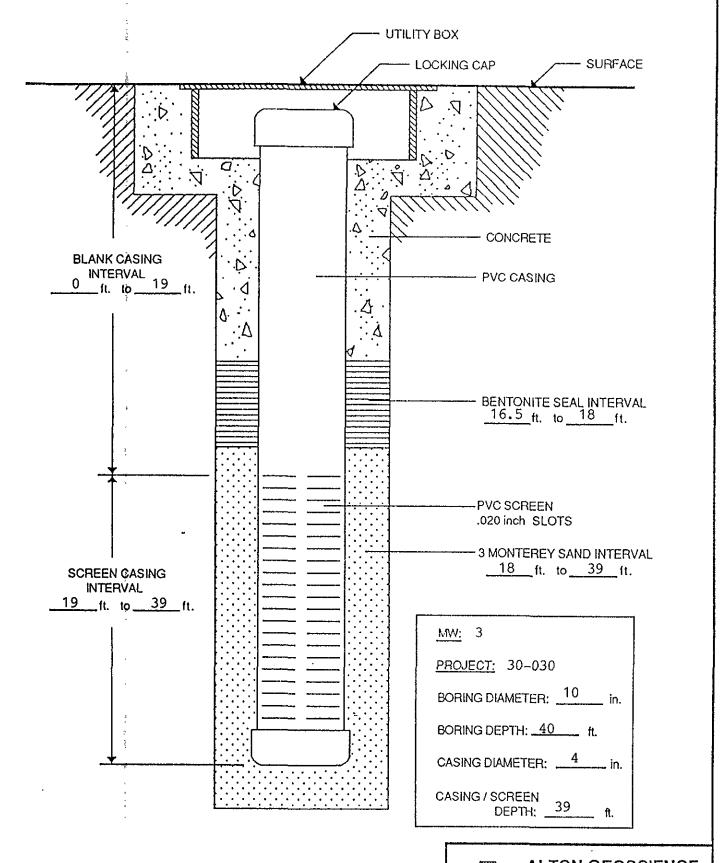
Enclosures

cc: Mr. Eddie So RWQCB-S.F.Bay Region 2101 Webster Street, Suite 500 Oakland, CA 94612

> Mr. Steve Willer Chevron U.S.A. Products Co.



MONITORING WELL CONSTRUCTION DETAIL



ALTON GEOSCIENCE 1170 BURNETT AVE., STE S CONCORD, CA 94520

NOTE: DIRAWING IS NOT TO SCALE

BORING LOG

PROJECT:	30-030	BORING DATE:_	8-18-89
LOCATION:	CASTRO VALLEY	GEOLOGIST:	S. ROSEN
TYPE:	10" HSA	BORING NO.	3

WEST HAZMAT DRILLING COMPANY:

	DEPT (FEET	Ή >	1	BLOW CTS	MATERIAL ENCOUNTERED	USCS
	- -			,	Hand excavated first 4 feet.	
	5 	++		8,13,7	Soft, damp, dark brown, silty, sandy CLAY (fill material). CGI <50 ppm. TRPH = 250 ppm, TPH = ND, B = ND, T = ND, E = ND, X = ND.	CL.
	- 10 - -	++		6,6,8	Soft, wet to saturated, dusky brown, sandy CLAY. CGI 50 ppm. TRPH = 14 ppm, TPH = ND, B = ND, T = ND, E = ND, X = ND.	CL.
Z.	— 15 — -	5		8,12,18	Soft to medium stiff, damp, moderate brown, sandy CLAY. CGI 50 ppm.	CL
.x.		;)	1.	9,15,16	Medium stiff, dry to damp, moderate yellowish brown, clayey SILT. CGI = 75 ppm.	ML
	- - 25 - -	5 ++		34,50 for 5"	Hard, dry, moderate yellowish brown, semi-indurated, clayey SILT. CGI 50 ppm. TPH = ND, B = ND, T = ND, E = ND, X = ND.	ML
)		70 for	Hard, dry, dusky yellowish brown, semi-indurated, clayey SILT. CGI <75 ppm.	MIL
	35 	5	-1 -	50 for 3"	Hard, dry, medium light gray, semi-indurated SILT. CGI = 50 ppm.	MIL
	40)		50 for 0"	No sample retrieved.	

TPH =Total Petroleum Hydrocarbons
TRPH = Total Recoverable Petroleum Hydrocarbons
V = Ground Water Piezometric Surface

NO = Not Detected

CGI = Combustible Gas Indicator

++ = Sample Analyzed for Hydrocarbon

Concentration

I = Sampling Interval

ppm = Parts per Million

LEL = Lower Explosive Limit

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

Total Depth = 40 Feet