

HK2, Inc./SEMCO

97 OCT 28 PM 3: 28

70 CHEMICAL WAY • REDWOOD CITY, CALIFORNIA 94063 • (650) 261-1968 • (650) 261-0735 FAX
GENERAL ENGINEERING & ENVIRONMENTAL CONTRACTORS • LICENSE NO. 719103 (A, B, C57, C61/D40, ASB, HAZ)

October 24, 1997

Ms. Pamela Evans
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Summary of Site Assessment Data for 701 San Pablo Avenue in Albany, California

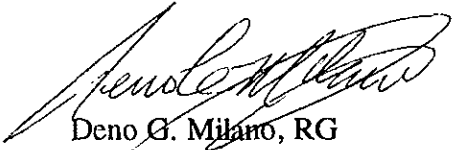
Dear Ms. Evans:

Per our telephone conversation today, please find attached a summary of soil and groundwater site assessment data obtained to date at 701 San Pablo Avenue in Albany, California. Also attached is a copy of the most recent regulatory letter prepared for this site.

Please call me when you have a chance to review this data. I think we are very close to closing this site and wanted to discuss this site with you before preparing our report on our most recent assessment activities (the drilling of Borings B-7 through B-9).

Sincerely,

HK2, Inc./SEMCO



Deno G. Milano, RG
Senior Geologist

attachments (8)

97-0247.1r1

- ? Date of these samples (May/June 1997)
- ? If they did not file for reimbursement, how does that affect our oversight
- ? what were results from B10
- Looks like ① gw sample only from BB
- ?--soil sample from bottom of wo pit after over-excavation? ~~PH~~
- what about stockpiles--still there.

- 20,000 ppb TEPH?

They plan to: ① over excavate wo pit to 10' to remove any possible cont.
② " " soil at dispenser area w/ confirmatory
③ doing a boring w/ litho info - N of tank pit - since B-7 was not successful

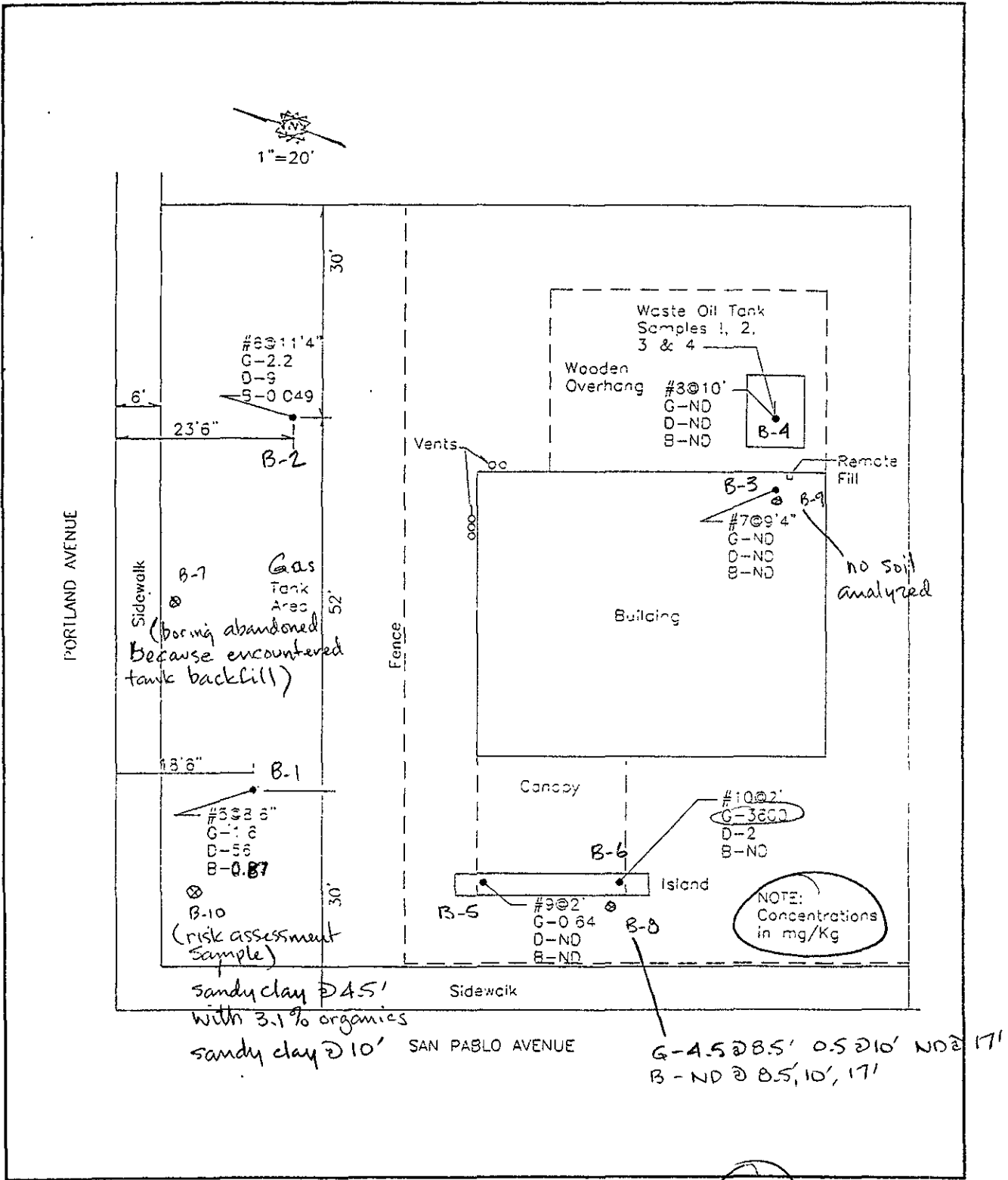


Figure 3. Soil Sampling Locations

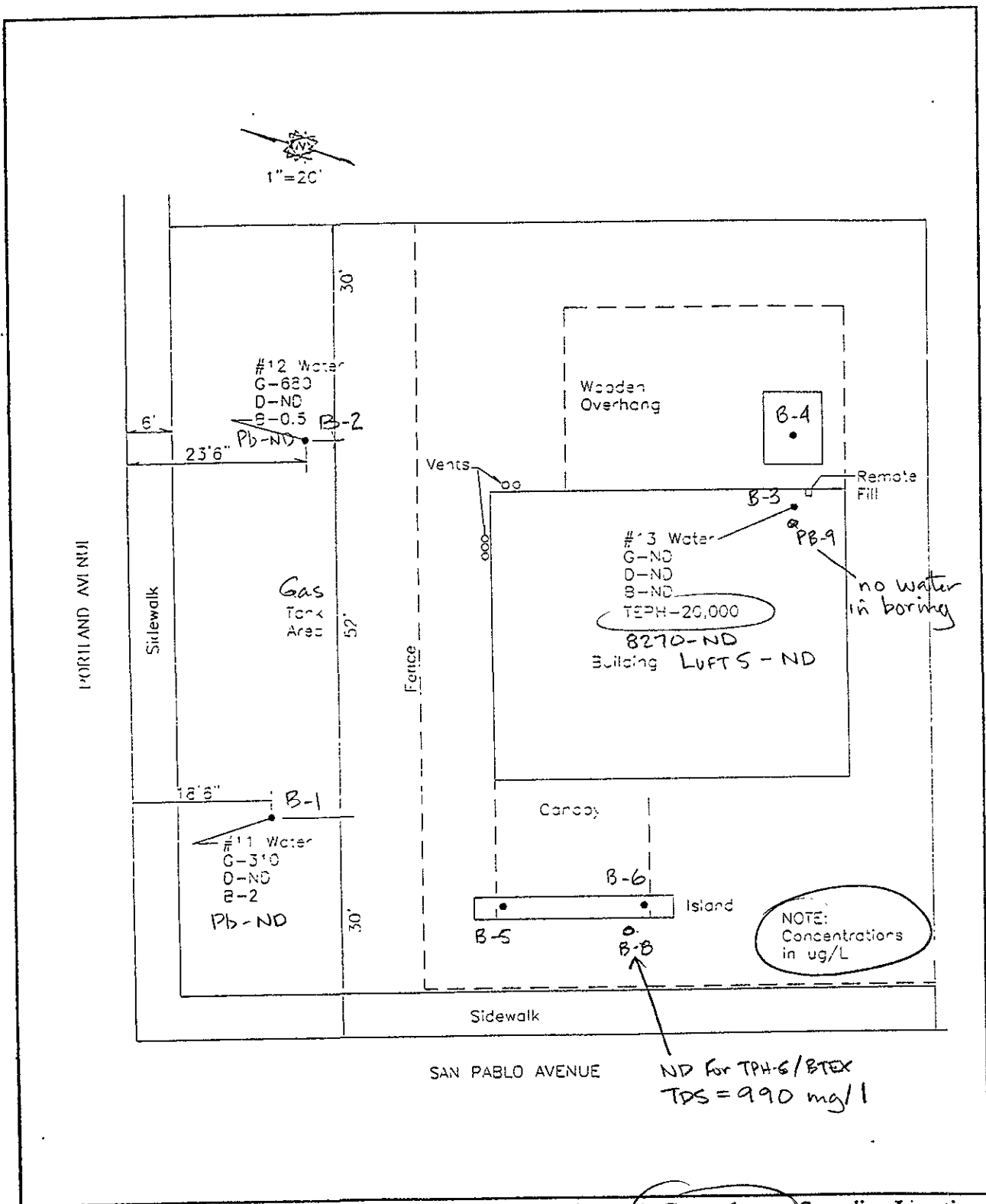
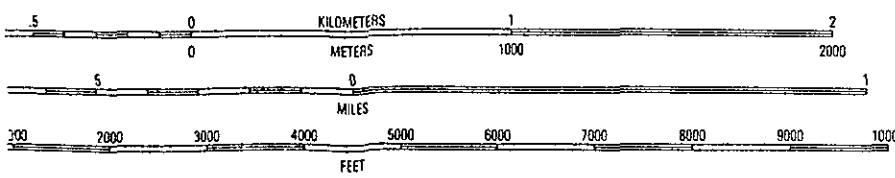


Figure 4. Groundwater Sampling Locations



SCALE 1:24 000



Primary highway
hard surface
Secondary highway
hard surface

Interstate

CONTOUR INTERVAL 20 FEET
SUPPLEMENTARY CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

1	2	3	1 Petaluma Point
			2 Mare Island
			3 Benicia
4		5	4 San Quentin
			5 Briones Valley
			6 San Francisco North
			7 Oakland West
6	7	8	8 Oakland East

THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS
U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20508

Table I

WASTE OIL TANK SOIL SAMPLING SUMMARY

(mg/Kg)

No.	Sample	Depth	TPH-G	TPH-D	Benzene	Toulene	Ethylbenzene	Xylenes	TEPH
1	1-285-WO-6'6"	6'6"	310	1300	0.46	5.5	2	8.3	620
2	2-285-WO-8'	8'	6.2	15	0.036	0.14	0.088	0.314	
3	4-285-WO-SSW-4'	4'	ND	ND	ND	ND	ND	ND	ND
4	5-SP-COMP	0'	24	89	0.044	0.21	0.32	0.55	270
No.	Sample	Depth	Nickel	Zinc	Chromium	Cadmium	Lead		
1	1-285-WO-6'6"	6'6"	57	92	41	ND	720		
2	2-285-WO-8'	8'	75	59	74	ND	20		
3	4-285-WO-SSW-4'	4'	42	26	33	ND	14		
4	5-SP-COMP	0'	54	110	33	ND	77		

ND = Non Detect
 NA = Not Analyzed

ADDITIONAL DATA:

WO-6'6" = ND for 8010, 9.9 mg/kg 8270
 WO-SSW-4' = ND for 8010, ND for 8270
 SP-COMP = ND for 8010, 1.37 mg/kg 8270
 WO-8' = ND for 8010 (but analyzed 35 days after sampled)
 1.25 mg/kg 8270 (" " " " ")

HK2, Inc. / SEMCO
 File: 96-0247.rpt

Analyzed 29-30 days
 after sample collected

Table 2

SOIL SAMPLING SUMMARY
(mg/Kg)

	No.	Sample	Depth	TPII-G	TPII-D	Benzene	Toulene	Ethylbenzene	Xylenes	TEPII
B-1	5	B1-8'6"-9'6"	8'6"	1.6	56	0.87	1.1	3.8	470	
B-2	6	B2-11'4"-12'4"	11'4"	2.2	9	0.049	0.180	0.22	0.039	ND
B-3	7	B3-9'4"-10'4"	9'4"	ND	ND	ND	ND	ND	20	ND
B-4	8	WO@10'	10'	ND	ND	ND	ND	ND	0.018	ND
B-5	9	PI-N@2'	2'	0.64	ND	ND	ND	ND	0.035	ND
B-6	10	PI-S@2'	2'	3600	2	ND	0.005	ND	0.045	ND
<hr/>										
	No.	Sample	Depth	Nickel	Zinc	Chromium	Cadmium	Lead	PNA's	TTLIC Pb
3-1	5	B1-8'6"-9'6"	8'6"					ND		12
B-2	6	B2-11'4"-12'4"	11'4"							8
B-3	7	B3-9'4"-10'4"	9'4"	48	24	43	ND	ND	ND	
B-4	8	WO@10'	10'	69	41	35	ND	10	ND	
B-5	9	PI-N@2'	2'					18		
B-6	10	PI-S@2'	2'					11		

ND = Non Detect
NA = Not Analyzed

ADDITIONAL DATA:

B4 - 10' = ND For 8270
B3 - 9'4" = ND For 8270

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File: 96-0247.rpt

This is same as T Pb.
(could not find lab report to verify)

Table 3

WATER SAMPLING SUMMARY
(ug/L)

	No.	Sample	Depth	TPH-G	TPH-D	Benzene	Toulene	Ethylbenzene	Xylenes	TEPH
B-1	11	B1-W	9'6"	310	ND	2	3	2	5	
B-2	12	B2-W	14'6"	680	ND	0.5	1	ND	18	
B-3	13	B3-W	10'9"	ND	ND	ND	ND	ND	ND	20,000
<hr/>										
	No.	Sample	Depth	Nickel	Zinc	Chromium	Cadmium	Lead	PNA's	
B-1	11	B1-W	9'6"					ND		
B-2	12	B2-W	14'6"					ND		
B-3	13	B3-W	10'9"	ND	ND	ND	ND	ND		

ND = Non Detect
NA = Not Analyzed

ADDITIONAL DATA:

B3-W = ND For 8270

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



January 14, 1997

Ingrid & Frank Werner
22 Kensington Court
Kensington, CA 94707

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

STID 5347

Re: Required investigations at 701 San Pablo Avenue, Albany, California

Dear Ingrid & Frank Werner,

This office has reviewed HK2, Inc./SEMCO's (HK2) Phase II Site Investigations Report, dated December 29, 1996, for the above site. The following is an outline of the various concerns this office has in response to our review of the investigation results:

- 1) The benzene concentration identified in the soil sample collected from Sample #5, located at the northwest corner of the site, exceeds the threshold value for the "Soil Vapor Intrusion Into Buildings" and "Soil Leachate into Groundwater" exposure pathways for a 10^{-5} excess cancer risk at a commercial site, per the Tier 1 table of the American Society for Testing and Materials' Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites (E 1739-95). Additionally, the groundwater sample collected from this location identified 2 parts per billion (ppb) benzene, which exceeds the California Drinking Water Standard. B-1
- 2) Elevated levels of Total Petroleum Hydrocarbons as gasoline (TPHg), at 3,600 parts per million (ppm), were identified in the shallow soil sample collected from beneath the former pump islands. The extent of this soil contamination and the degree to which this soil contamination may have impacted groundwater is still unknown.
- 3) Elevated levels of Total Extractable Petroleum Hydrocarbons (TEPH), at 20,000 ppb, was identified in the groundwater sample collected from Boring B3, located near the former waste oil tank. Page 10 of HK2's report implies that the detected TEPH concentrations are from a biogenic source, however, this office has insufficient evidence to indicate that this is the case.

Considering the above concerns, this office is recommending that one permanent monitoring well be placed downgradient of Sample #5 and be sampled continuously for two to four quarters to determine whether the observed groundwater contaminant plume is stable. Groundwater samples collected from this location should be analyzed for TPHg and BTEX. Additionally, the initial groundwater sample collected from this well location should also be analyzed for Total

Ingrid & Frank Werner
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Dissolved Solids (TDS) to determine whether the groundwater beneath the site is potable. According to groundwater information obtained from other sites in the vicinity (namely 431 San Pablo Ave., 500 San Pablo Ave., and 718 San Pablo Ave.), the local groundwater gradient appears to fluctuate between northwest to southwest.

Due to the uncertainties associated with the extent and severity of the shallow soil contamination near the former pump islands, this office is requesting that an additional boring be placed immediately downgradient of Sample PI-S to characterize the vertical and lateral extent of the observed soil contamination, and to determine whether groundwater has been impacted from these soil concentrations. Both soil and groundwater samples collected from this location should be analyzed for TPHg and BTEX.

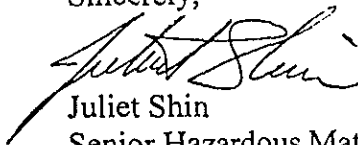
For the initial groundwater samples collected from the monitoring well and boring, a TEPH analysis should be included to determine whether the TEPH groundwater contaminant plume observed near the former waste oil tank has significantly migrated. As part of the TEPH analysis, a silica gel cleanup should be applied in order to eliminate any interference from potential biogenic materials. Additionally, some fuel fingerprinting interpretations should be attempted of the chromatogram in order to identify the exact contaminant (s).

A work plan addressing the above work should be submitted to this office within 60 days of the date of this letter (i.e., by March 11, 1997). (If you have applied to the State Trust Fund, please be reminded to check with the State to see whether it requires three bids for this phase.)

Lastly, this office is requesting that you submit information indicating when Chevron vacated the site and/or when you purchased the site. If Chevron vacated the site after 1983, then the analysis for Methyl Tertiary Butyl Ether (MTBE), an oxygenate additive to gasoline whose use was widespread after 1983, should be included for any groundwater samples.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,



Juliet Shin
Senior Hazardous Materials Specialist

cc: Stanley L. Klemetson, HK2, Inc./SEMCO, 1751 Leslie St., San Mateo, CA 94402
Acting Chief