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January 27, 1992

Project No. 6-91-5165

Mr. Paul Smith Alameda County Department of Environmental Health Hazardous Materials Program 80 Swan Way, Room 200 Oakland, CA 94621

Vorelco Property #4826, Broadway Volkswagen, located at 2740 Broadway

Avenue, Alameda County, Oakland, California 94612

Dear Mr. Smith,

Please find attached the analytical results for soil samples and a ground-water sample collected in August, 1988 during an underground storage tank (UST) removal project at the subject facility. All of the abovementioned samples were collected from what is referred to as the Tank C/D area located on the 28th Street boundary of the subject property (Figure 1 - Sample Locations).

You will note that the volatile organic compounds (VOC's) detected using analytical method EPA 8240 on both the soil and water samples collected during the excavation were restricted to benzene, toluene, ethylbenzene, and total xylenes (BTEX). Other VOC's known to occur in solvents and degreasers, such as dichloroethene (DCE) and trichloroethylene (TCE), were not detected in any samples collected at that time. Being that soil samples collected during later investigative activities both at and around the former Tank C/D excavation did not contain detectable amounts of DCE and TCE (ESE Report of Quarterly Activities, July 1991) and water samples regularly collected from widely-spaced ground-water monitoring wells located along the 28th Street property boundary did contain approximately equivalent detectable concentrations of DCE and TCE (ESE Report of Quarterly Activities, July 1991; ESE Report of Quarterly Activities, November 1991) it is apparent that the Tank C/D location is not acting as a point source for the solvent compounds. Potential sources are believed to include ground-water transport from offsite locations, sewer main transport from offsite locations, and/or buried sewer pipes sourcing from buildings at the investigation area.

Mr. Smith January 27, 1992 Page 2

Our client, Vorelco Inc., is willing to continue the site investigative, monitoring, and abatement activities for the unauthorized release of gasoline at the former Tank C/D location as requested by your office. However, our client feels that sufficient data has been generated which indicates that the former Tank C/D excavation did not source the DCE and TCE detected in ground-water samples and, therefore, should not be required to remediate the ground-water impacted specifically with these solvent compounds.

Vorelco Inc. requests that a meeting be scheduled as soon as possible in order to discuss the above issue. It is expected that this proposed meeting would be attended by Tom Moffatt representing Vorelco Inc., professional consultants Susan Wickham and Bart Miller of Environmental Science & Engineering Inc. (ESE) representing Vorelco Inc., and yourself representing Alameda County.

This letter will be followed by a telephone call in the near future to arrange a mutually convenient date for the proposed meeting. Until then, should you have any questions or comments, please feel free to contact Bart Miller at (510) 685-4053.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Bart S. Miller

Senior Staff Geologist

Susan S. Wickham, RG 3856

Sugar S. Wicksham

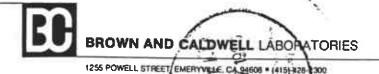
Senior Geologist

Attachments:

(1) Analytical Results

(2) Figure 1 - Sample Locations

cc. Tom Moffatt - Vorelco (with attachments)



LOG NO: E88-08-571

Received: 23 AUG 88 Reported: 02 SEP 88

Mr. Eric Storrs Engineering Science 600 Bancroft Way Berkeley, California 94710

REPORT OF ANALYTICAL RESULTS

Page 1

	LE DESCRIPTION, SOII	SAMPLES		DA*	TE SAMPLED
08-571-1 B-D1					23 AUG 88
08-571-2 B-D2					23 AUG 88
08-571-4 B-C1					23 AUG 88
08-571-5 B-C2					23 AUG 88
PARAMETER			08-571-2	08-571-4	08-571-5
Hydrocarbons by J	IR, mg/kg	1200	<50		•
BTX by PID (EPA-8 Benzene, mg/kg	3020)			1.3	<0.3
Ethylbenzene, mg	r/kg			<0.3	<0.3
Toluene, mg/kg	, ,		***	0.9	<0.3
Total Xylene Iso	omers, mg/kg			0.3	<0.3
Total Fuel Hydrod					
Date Analyzed		08.28.88	08.28.88	08.28.88	08.28.88
Fuel Characteria	ation, mg/kg	GAS			
Total Fuel Hydro	carbons, mg/kg	2900	<10	<10	<10



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REPORT OF ANALYTICAL RESULTS

Page 2.

OG NO SAMPLE DESCRIPTION, SOIL SAM	MPLES		DAT	TE SAMPLED
8-571-1 B-D1 8-571-2 B-D2 8-571-4 B-C1 8-571-5 B-C2				23 AUG 88 23 AUG 88 23 AUG 88 23 AUG 88
ARAMETER	08-571-1	08-571-2	08-571-4	
urgeable Priority Pollutants Extraction 1,1,1-Trichloroethane, mg/kg 1,1,2,2-Tetrachloroethane, mg/kg 1,1,2-Trichloroethane, mg/kg 1,1-Dichloroethane, mg/kg 1,1-Dichloroethylene, mg/kg 1,2-Dichloroethane, mg/kg 1,2-Dichloropropane, mg/kg 1,3-Dichloropropane, mg/kg 2-Chloroethylvinylether, mg/kg Acrolein, mg/kg Acrylonitrile, mg/kg Bromodichloromethane, mg/kg	08.24.88 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	08.24.88		
Bromomethane, mg/kg Benzene, mg/kg	<0.2 1.4	<0.2 2.2		
Chlorobenzene, mg/kg	<0.2 <0.2	<0.2 <0.2		
Carbon Tetrachloride, mg/kg Chloroethane, mg/kg	<0.2	<0.2		*
Bromoform, mg/kg	<0.2	<0.2		
Chloroform, mg/kg	<0.2	<0.2 <0.2		
Chloromethane, mg/kg	<0.2 <0.2	<0.2		
Dibromochloromethane, mg/kg Bthylbenzene, mg/kg	12	14	7.7.7	

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LOG NO	SAMPLE DESCRIPTION, SOIL SA	MPLES		DA	TE SAMPLED
08-571-1	B-D1				23 AUG 88
08-571-2	B-D2				23 AUG 88
08-571-4	B-Cl				23 AUG 88
08-571-5	B-C2				23 AUG 88
		08-571-1	08-571-2	08-571-4	08-571-5
PARAMETER		00-3/1-1	00-571-2		
Wethylene	chloride, mg/kg	<0.2	<0.2		
	roethylene, mg/kg	<0.2	<0.2		
	ethylene, mg/kg	<0.2	<0.2		
	fluoromethane, mg/kg	<0.2	<0.2		
Toluene,		6.6	26		
	oride, mg/kg	<0.2	<0.2		
	-Dichloroethylene, mg/kg	<0.2	<0.2		
	-Dichloropropene, mg/kg	<0.2	<0.2		
Semi-Quan	tified Results **		1/		
	ydrocarbons, mg/kg	2000	1000	- J	
	lene Isomers, mg/kg	46	78		

** Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

Lab: Brown + Caldwell

CHAIN OF CUSTODY RECORD

PROJECT	RIS): IS	BLEY BLOCK	ATION: Dway RE) H	Makdis Volksu	uagen Aman		NO. OF CONTAINERS		18/8	12 (med) (2			REQUI		CUMWAROUNO SY LAB	REA	MARKS	
		TIME	MATRIX		AMPLE LO	DCATION		10	/	/ "	10	9 1	(24-18	_	-		
	8/23/88			Tank I)		1	/	-	/				hrs	_			
B-D2		13:45		1,			1	/	/	/								-
B-DL2	ts	111111111111111111111111111111111111111	water	11			1	1	1	V				.,,				
B-C1	14	16:30		Tank (1				/	. 11		- (t				
B-CZ B-CL1	11	17:15	Sul	15			1				1			1X				
R-CL1		17:00	water	M			1				V			- 11				
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LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES		DATE SAMPLED
08-571-3 08-571-6	B-DL2 B-CL1		23 AUG 88 23 AUG 88
PARAMETER		08-571-3	08-571-6
Date Analy Fuel Chara Total Fuel EPA Method Date Extra 1,2-Dichlo 1,3-Dichlo 1,4-Dichlo Benzene, u Chlorobenz Ethylbenze Toluene, u	cterization, mg/L Hydrocarbons, mg/L 602 cted brobenzene, ug/L	08.30.88 GAS 7.2 08.25.88 <50 <50 730 <50 1100 3500 6600	08.28.88 GAS 450 08.29.88 <50 <50 <50 21000 <50 17000 39000 54000

Sim D. Lessley, Ph/D., Laboratory Director

