

December 26, 1991
File: 10-1682-03 /31

92 JAN -7 11:11
1/8/91
Talked to Linda out RW 12 C 13
She will reply with an answer tomorrow.

Mr. Robi Arulanantham
Alameda County Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

SUBJECT: Modification of Requested Analytical Methods, Industrial Asphalt, Pleasanton, California

Dear Mr. Arulanantham:

Ground water monitoring for chemical constituents has taken place at the Industrial Asphalt site in Pleasanton, California, over the past several years on a monthly or quarterly basis. In his letter of February 21, 1991, Mr. Gil Wistar of the Alameda County Department of Environmental Health requested the addition of analyses for benzene, ethylbenzene, toluene, and total xylenes (BTEX), chlorinated hydrocarbons, and oil and grease, to the existing suite of analyses for total petroleum hydrocarbons as diesel, total petroleum hydrocarbons as waste oil, and polychlorinated biphenyl compounds (PCBs).

The attached table summarizes analytical results for the past year (1991) for volatile organic compounds in monitoring wells at the Industrial Asphalt site. Inspection of the data indicates that volatile organic compounds have not been detected in ten of the fourteen tested wells. Low concentrations of benzene, ethylbenzene, total xylenes, 1,1-dichloroethane, 1,2-dichloroethene, trichlorofluoromethane, and/or vinyl chloride have been occasionally detected in only four of these wells (MW-2, MW-3, MW-8, and MW-14). Kleinfelder believes that the one time report of ethylbenzene in well MW-14 is in error as the reported value is near the laboratory detection limit and the well is located beyond the area of greatest contaminant impact. Monitoring well MW-6 has not been accessible during the past year and has not been tested. With the exception of vinyl chloride in monitoring well MW-3, all detected values are below the primary maximum contaminant levels (MCLs) established by the California Department of Health Services (DHS).

Based on the attached data, Kleinfelder recommends that laboratory analysis for volatile organic compounds via EPA Test Methods 8010 and 8020 be discontinued at this time. Discontinuance of these analyses will save the responsible party (Industrial Asphalt) a significant amount of money without compromising our understanding of the plume dimensions or the effectiveness of remedial activities. The next quarterly sampling round is scheduled for February 19 through 21, 1992. If we have not heard from you by that time we plan to implement these recommendations.

Fax 938-5419

Recommendations: MW2 → 8020 yes / 8010 no
MW3 → 8010 yes / 8020 one more quarter
MW8 → 8020 yes / 8010 NO
MW14 → 8020 NO / 8010 ~~yes~~ NO

Rover
1/3/91

LIMITATIONS

This report was prepared in general accordance with the accepted standard of practice which exists in Northern California at the time the investigation was performed. It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact art. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. If the Client wishes to reduce the uncertainty beyond the level associated with this study, Kleinfelder should be notified for additional consultation.

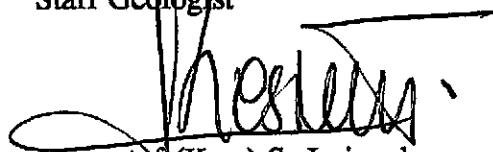
Our firm has prepared this report for the Client's exclusive use for this particular project and in accordance with generally accepted engineering practices within the area at the time of our investigation. No other representations, expressed or implied, and no warranty or guarantee is included or intended.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

Sincerely,

KLEINFELDER, INC.


Guy A. Jett
Staff Geologist


Krzysztof (Krys) S. Jesionek,
Project Manager

GAJ:KSJ:cah

cc: Dennis Hunt - Industrial Asphalt
Dwight Beavers - Industrial Asphalt
Linda Spencer - California Regional Water Quality Control Board
Jerry Killingstad - Alameda County Flood Control and Water
Conservation District, Zone 7

TABLE 1
VOLATILE ORGANIC COMPOUNDS⁽¹⁾
INDUSTRIAL ASPHALT

Well Number	Sample Date	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)	1,1-DCA ⁽²⁾ (µg/L)	1,2-DCE ⁽³⁾ (µg/L)	TCFM ⁽⁴⁾ (µg/L)	Vinyl Chloride (µg/L)	Other 8010 Compounds (µg/L)
MW-1	Feb. 1991	ND	ND	ND	ND	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	0.7	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	0.8	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	0.9	6	ND	3	2	ND	1	8	ND
	July 1991	ND	ND	ND	ND	2	ND	ND	8	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-4	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	July 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	Nov. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
Laboratory Detection Limit		0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5
Drinking Water Standard ⁽⁶⁾		1	680	1,000(40)	1,750(20)	5	6	150	0.5	--

Please see notes on last page of Table
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TABLE 1
(Continued)
VOLATILE ORGANIC COMPOUNDS⁽¹⁾
INDUSTRIAL ASPHALT

Well Number	Sample Date	Benzene (µg/L)	Ethyl- benzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)	1,1- DCA ⁽²⁾ (µg/L)	1,2- DCE ⁽³⁾ (µg/L)	TCFM ⁽⁴⁾ (µg/L)	Vinyl Chloride (µg/L)	Other 8010 Compounds (µg/L)
MW-7	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	3	ND	ND	ND	1	ND	ND	ND
	July 1991	ND	1	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	0.7	ND	ND	ND	ND	ND	ND	ND
Laboratory Detection Limit		0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5
Drinking Water Standard ⁽⁶⁾		1	680	1,000(40)	1,750(20)	5	6	150	0.5	--

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Well Number	Sample Date	Benzene (µg/L)	Ethyl- benzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)	1,1- DCA ⁽²⁾ (µg/L)	1,2- DCE ⁽³⁾ (µg/L)	TCFM ⁽⁴⁾ (µg/L)	Vinyl Chloride (µg/L)	Other 8010 Compounds (µg/L)
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16	Feb. 1991	NT	NT	NT	NT	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
14A2 ⁽⁵⁾	Feb. 1991	ND	ND	ND	ND	NT	NT	NT	NT	NT
	April 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	July 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Nov. 1991	ND	ND	ND	ND	ND	ND	ND	ND	ND

Laboratory Detection Limit	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5
Drinking Water Standard ⁽⁶⁾	1	680	1,000(40)	1,750(20)	5	6	150	0.5	--

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TABLE 1
VOLATILE ORGANIC COMPOUNDS
INDUSTRIAL ASPHALT

NOTES:

- (1) Sample analysis for benzene, ethylbenzene, toluene, and total xylenes via EPA Test Method 8020 (volatile aromatic compounds). Sample analysis for other compounds via EPA Test Method 8010 (halogenated volatile organic compounds). Compounds not listed were not detected at concentrations above the laboratory detection limit.
- (2) 1,1-Dichloroethane
- (3) 1,2-Dichloroethene, total
- (4) Trichlorofluoromethane
- (5) Jamieson water supply well.
- (6) California Department of Health Services Drinking Water Standards, Primary Maximum Contaminant Levels (MCL); secondary MCLs listed in parentheses. Source: Water Quality Goals, California Regional Water Quality Control Board, February 1991.
- ND Not Detected at or above laboratory detection limits (Only those compounds which were detected in one or more samples are tabulated. See laboratory reports in Appendix for a listing of and detection limits for other compounds reported using EPA Test Method 8240.
- NT Not Tested