KLEINFELDER

1 August 1990
File: 10-1682-03/38

Mr. Dennis Hunt
District Manager
Industrial Asphalt
P.O. Box 636
Pleasanton, CA 94566

SUBJECT: June 1990 Monthly Monitoring, Industrial Asphalt, Pleasanton, California

Dear Mr. Hunt:

Kleinfelder, Inc., is pleased to submit the results of our monthly monitoring and sampling activities at the Industrial Asphalt facility in Pleasanton, California. Additionally, as requested by the Alameda County Department of Environmental Health (ACDEH) in their letter to Industrial Asphalt dated 9 February 1990, monthly reports now contain a summary of the RI activities and specific plans for the next month activities.

MONTHLY MONITORING

Field monitoring activities were performed on 26 June 1990 through 28 June 1990. Monitoring data for the eleven onsite monitoring wells are shown on the attached table. Three wells (MW-1, MW-2 and MW-11) were not sampled at this time. Monitoring wells MW-1 and MW-2 had insufficient volumes of water to obtain representative samples and monitoring well MW-11 was dry on the sampling days. Surface water level in the pond was obtained from the staff gage.

Collected ground water samples were tested for the standard suite of constituents which included total petroleum hydrocarbons (TPH) as diesel/waste oil and polychlorinated biphenyls (PCBs). A summary of the analytical data for the sampled ground water from monitoring wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-14, MW-15 and MW-16 is also included in the attached table.

During the sampling period, selected RI activities (drilling, new monitoring well development) were performed at the project. Therefore, collected water level data may be inaccurate. However, as indicated by the data, the ground water table beneath the project site rose as compared to the previous monitoring round (May 1990). A ground water surface contour map has been developed from the data obtained on 28 May 1990. Interpretation of the data indicates that ground water flow was toward the northeast at an approximate hydraulic gradient of 6.2% (Plate 1).

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As shown in the attached table, sheen was noted on the ground water surface in monitoring wells MW-1, MW-2 and MW-3.

Chemical analyses of ground water samples indicate the presence of dissolved hydrocarbons as diesel in monitoring wells MW-3, MW-5, MW-8 MW-9 and MW-15 at concentrations 520 mg/l, 0.1 mg/l, 0.06 mg/l, 0.6 mg/l and 0.4 mg/l, respectively. Dissolved hydrocarbons as waste oil and polychlorinated biphenyls (PCBs) were detected only in well MW-3 at concentrations 330 mg/l and 10 ug/l, respectively.

Based upon the analytical results, it appears that approximately 220 gallons of purge water from monitoring wells MW-4, MW-6, MW-7 and MW-10 can be disposed on the ground. The purge water from wells MW-3, MW-5, MW-8 and MW-9 as well as development water from wells MW-14, MW-15 and MW-16 may be recycled in manufacturing process used by Industrial Asphalt. This recommendation is in accordance with the California Regional Water Quality Control Board (CRWQCB) decision to waive waste discharge requirements for purge water disposal on the ground at the project site (letter from S.R. Ritchie of the CRWQCB to K.S. Jesionek dated 22 May 1990).

Monitoring at the Industrial Asphalt site has been rescheduled to occur every other month; therefore, the next sampling event is scheduled for August 1990.

RI ACTIVITIES

Drilling and sampling of the soil borings and monitoring wells with a dual tube percussion drill rig at the Industrial Asphalt facility commenced on 29 May 1990. Ten soil borings were drilled and backfilled and three monitoring wells (MW-14, MW-15 and MW-16) were installed by Water Development Corp. These wells were also developed and sampled during the June sampling round. Water samples from the three wells were analyzed for TPH-diesel, TPH-waste oil and PCBs. As required, samples from the new wells will be also analyzed once for BTXE (benzene, toluene, xylenes and ethylbenzene) during the August sampling event only.

Locations of the ten soil borings and the three new monitoring wells were surveyed horizontally and vertically by a licensed land surveyor. A new site based map is being developed and will be presented in the RI report.

On 14 June 1990, approximately 300 cubic yards of contaminated soils and approximately 700 cubic yards of the overlying materials were excavated in the vicinity of boring SB-1. Clean materials were used to backfill the excavation, and stockpiled hydrocarbon contaminated materials were recycled onsite through the asphalt and batch plants at the Industrial Asphalt facility.

The construction of an extraction well in the vicinity of SB-1/MW-1 is planned for 6 August 1990. At this same time a shallow monitoring well MW-11 will be abandoned. Once the extraction well is installed, a pumping test will be performed in order to evaluate hydraulic parameters of the water bearing unit. An updated project schedule is attached to this report.

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

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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 warranties, expressed or implied, as to the professional advice provided are made.

If you have any questions, please call the undersigned.

Sincerely,

KLEINFELDER, INC.

Krzysztof (Krys) S. Jesionek
Project Manager

Lloyd C. Venburg by Richard M. Wiley, GE

Lloyd C. Venburg, R.G.
Project Supervisor

cc: Dwight Beavers, Industrial Asphalt
Gil Wistar, Alameda County Department of Environmental Services
Rico Duazo, California Regional Water Quality Control Board
Jerry Killingstad, Alameda County Flood Control and Water Conservation District

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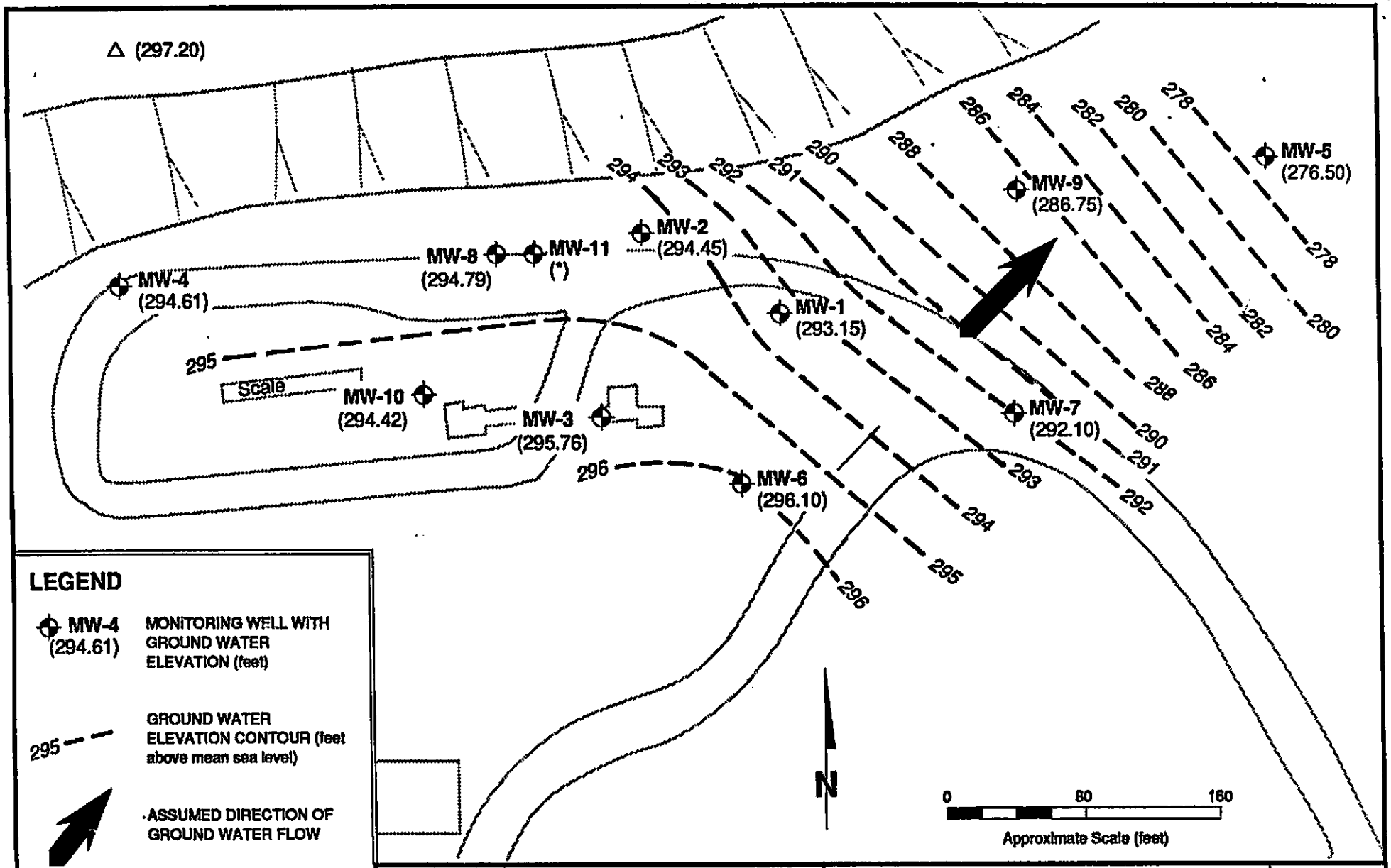
MONITORING PARAMETERS (28 July 1990)
INDUSTRIAL ASPHALT

Monitoring Well	Total Depth (feet)	Depth to Water[1] (feet)	Ground Water Elevation[2] (feet)	Product Thickness (feet)	TPH as Diesel[3] (mg/l)	TPH as Waste Oil[4] (mg/l)	PCBs µg/l[5]
MW-1	88	86.25	293.15	SHEEN	NT	NT	NT
MW-2	90	85.35	294.45	SHEEN	NT	NT	NT
MW-3	90	82.78	295.76	SHEEN	520	330	10
MW-4	95	81.65	294.61	NE	ND	ND	ND
MW-5	110	106.05	276.50	NE	0.1	ND	ND
MW-6	109	83.05	296.10	NE	ND	ND	ND
MW-7	109	86.84	292.10	NE	ND	ND	ND
MW-8	109	83.77	294.79	NE	0.06	ND	ND
MW-9	108	90.65	286.75	NE	0.6	ND	ND
MW-10	111	82.62	295.42	NE	ND	ND	ND
MW-11	75	DRY	NA	NE	NT	NT	NT
MW-14	114.5	NM	NA	NE	ND	ND	ND
MW-15	117	86.62	291.50	NE	0.4	ND	ND
MW-16	110	83.65	296.00	NE	ND	ND	ND
SG	NA	-2.80[6]	297.20[7]	NA	NA	NA	NA

NOTES:

(1) Below top of casing
(2) Feet above mean sea level (USGS Datum)
(3) Laboratory detection limits - 0.05 mg/l
(4) Laboratory detection limit - 0.2 mg/l
(5) Laboratory detection limit - 0.5 ug/l
(6) Reading on the staff gage
(7) Surface water elevation in the pit
TPH Total Petroleum Hydrocarbons
PCBs Polychlorinated Biphenyls (Aroclor 1260)
NE Not Encountered
ND Not Detected at or above laboratory detection limits
NA Not Applicable

SG Staff Gage
NC Not Accessible
NT Not Tested
NM Not Measured due to well development



LEGEND

- MW-4 (294.61) — MONITORING WELL WITH GROUND WATER ELEVATION (feet)
- 295 — GROUND WATER ELEVATION CONTOUR (feet above mean sea level)
- ASSUMED DIRECTION OF GROUND WATER FLOW
- (*) — DRY OR NOT ACCESSIBLE WELL
- △ (297.20) — SURFACE WATER ELEVATION (feet, above mean sea level)

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DRAFTED BY: L. Sue DATE: 8-1-90

CHECKED BY: K. Jesionek DATE: 8-1-90

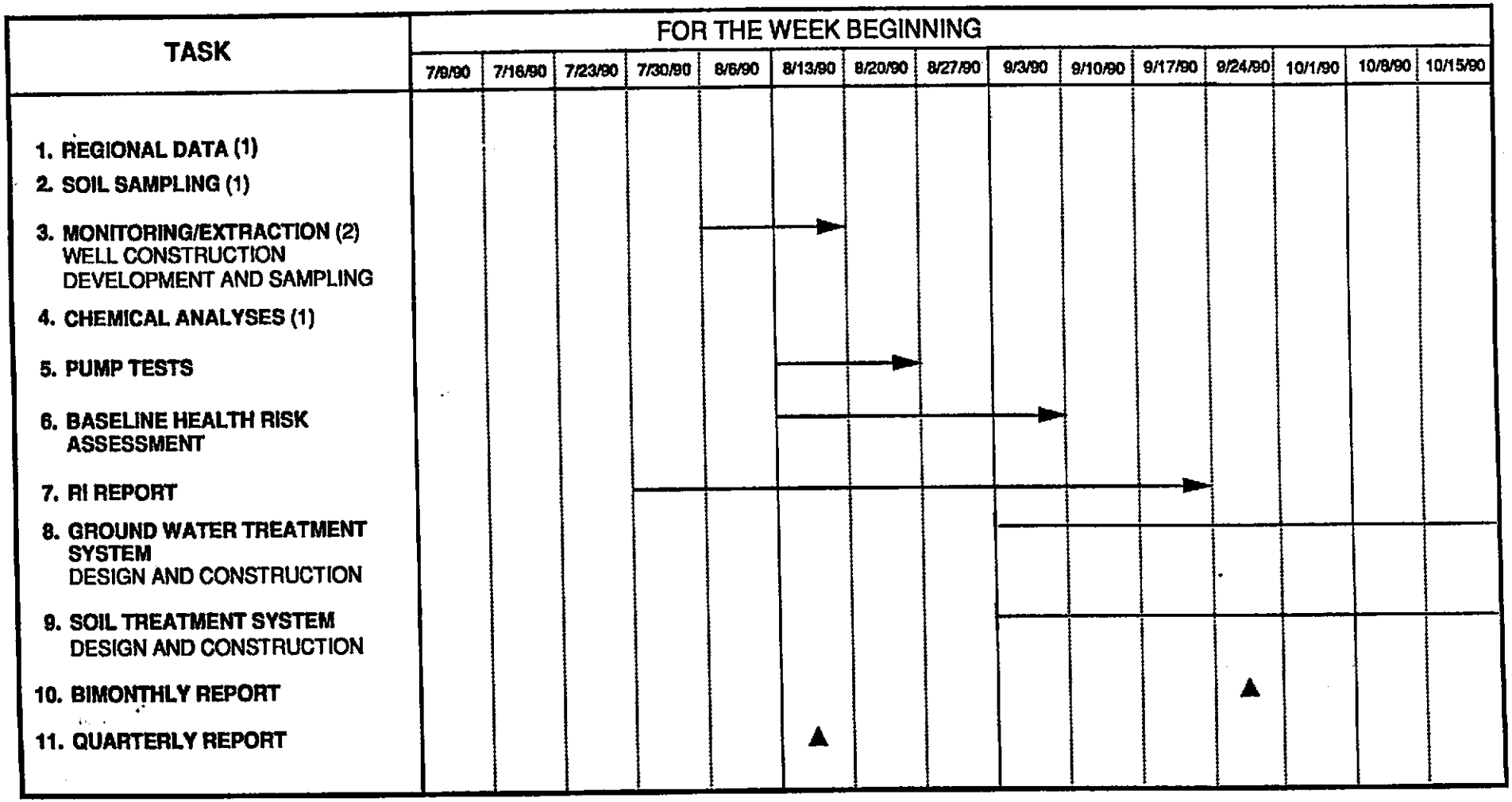
GROUND WATER SURFACE CONTOUR MAP — JUNE 28, 1990

INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA

PROJECT NO. 10-1682-03

PLATE 1

Revised Project Schedule



(1) Indicates completed task

(2) Includes soil excavation and free product removal from vicinity of boring SB-1

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Project No. 10-1662-06
Industrial Asphalt
1 August 1990