



KLEINFELDER

March 19, 1990
File: 10-1682-03/38

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

SUBJECT: February 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 in their letter 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 21 February 1990 through 23 February 1990. Water level and free product thickness data for the six onsite monitoring wells are shown on the attached table. On the sampling days, monitoring well MW-9 was covered with surface water due to a rainstorm, therefore, this well was inaccessible for sampling. The other four wells (MW-1, MW-2, MW-3, and MW-11) were 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-4, MW-5, MW-6, MW-7, MW-8, and MW-10 is also included in the attached table.

As indicated by the data, the ground water table beneath the project site rose as compared to the previous monitoring round (January 1990). This is likely due to several rainstorms which occurred in the months of December, January and February.

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A ground water surface contour map has been developed from the data obtained on 21 February 1990. Interpretation of the data indicates that ground water flow was toward the northeast at an approximate hydraulic gradient of 1.5% (Plate 1).

As shown in the attached table, sheen was noted on the ground water surface in monitoring well MW-8 only.

Chemical analyses of ground water samples indicate the presence of dissolved hydrocarbons as diesel in monitoring wells MW-6, MW-7, MW-8 and MW-10 at concentrations of 0.5 mg/l, 4.7 mg/l, 130 mg/l and 0.5 mg/l, respectively. Dissolved hydrocarbons as waste oil were detected only in a water sample obtained from well MW-7. Polychlorinated Biphenyls (PCBs) as Aroclor 1260 were found only in a water sample collected from monitoring well MW-8 at concentration of 6.3 ug/l.

Based upon the analytical results, it appears that disposal of the purge water from wells MW-6, MW-7, MW-8 and MW-10 can be recycled in manufacturing process used by Industrial Asphalt. Disposal of purge water from wells MW-4 and MW-5 can be on the ground.

RI ACTIVITIES

Drilling and sampling of the soil borings at the Industrial Asphalt facility commenced on 28 February 1990. The borings were drilled using a CME-75 truck-mounted drilling rig equipped with 8-inch diameter continuous hollow stem augers. This drilling rig was selected to drill and continuously sample the subsurface materials since previous experience with this type of a rig at the site justified this action.

The drilling commenced at the location of SB-4 (RI/RAP Workplan dated 15 January 1990, Plate 29) followed by borings at SB-2 and SB-3. However, the bore holes had to be abandoned at approximate depths of 73.5 ft, 81.0 ft and 56.0 ft, respectively, due to refusal by cobbles and boulders.

Therefore, it was proposed that the drilling to the desired depths of 95 to 100 feet in these three bore holes and the drilling of the remaining seven soil borings be accomplished with a dual tube percussion drill rig, also previously utilized at the site.

This rig is scheduled to arrive at the Industrial Asphalt site at its earliest available date (23 April 1990). A new (updated) project schedule will be developed and attached to our March 1990 monthly 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 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.

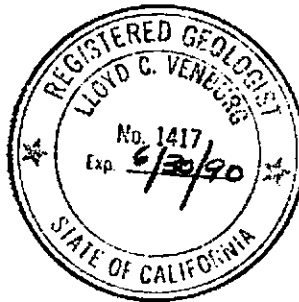
If you have any questions, please call the undersigned.

Sincerely,

KLEINFELDER, INC.


Krzysztof (Krys) S. Jesionek
Project Manager


Lloyd C. Venburg, R.G.
Senior Project Manager



cc: Dwight Beavers, Industrial Asphalt
~~City of~~ Alameda County Department of Environmental Services
Lester Feldman, California Regional Water Quality Control Board
Jerry Killingstad, Alameda County Flood Control and Water Conservation
District

(45)C90-113

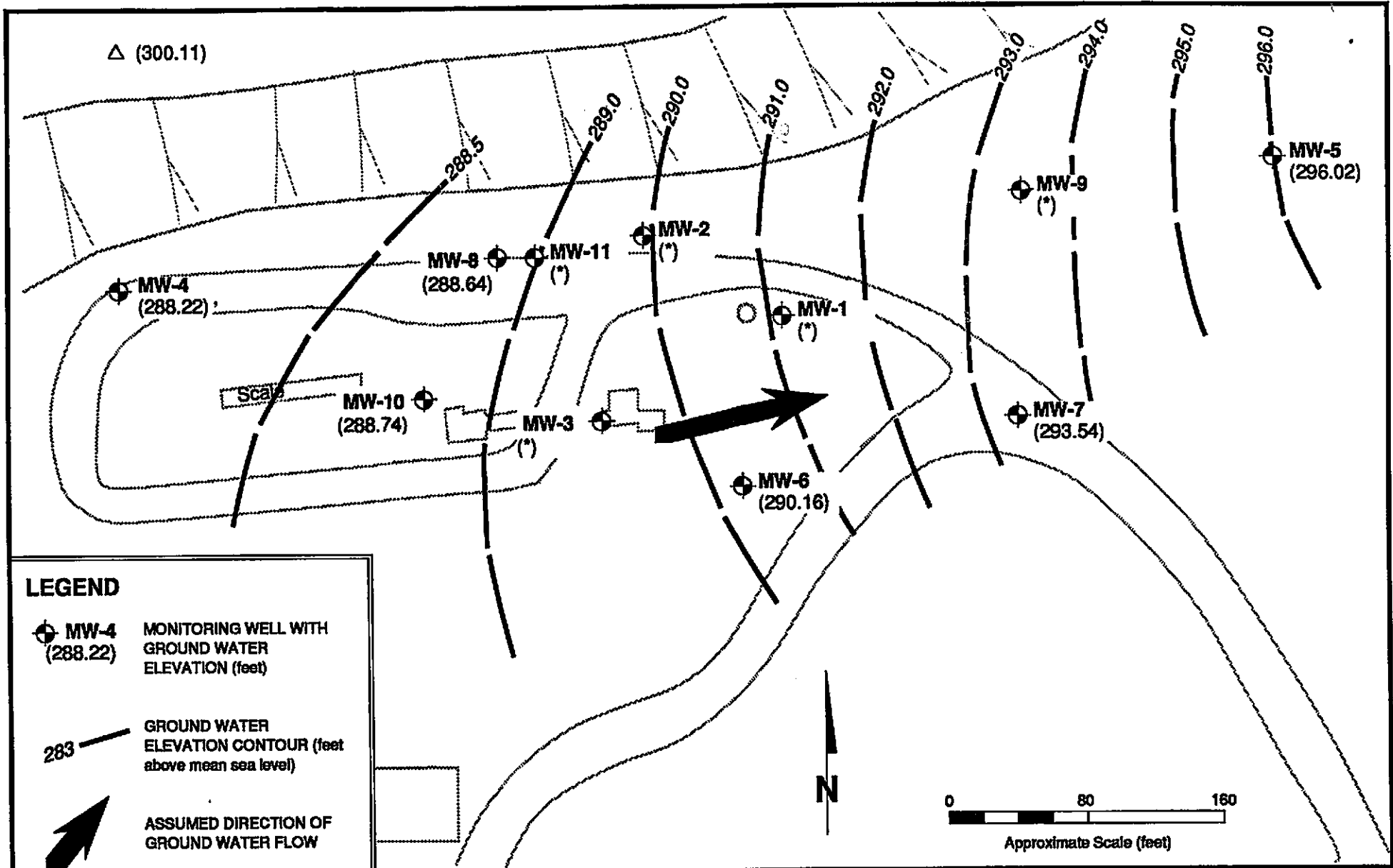
KLEINFELDER 2121 N. California Blvd., Suite 570, Walnut Creek, CA 94596 (415) 938-5610

**MONITORING PARAMETERS (02/21/90)
INDUSTRIAL ASPHALT**

| Monitoring Well | Total Depth (feet) | Depth to Water ⁽¹⁾ (feet) | Ground Water Elevation ⁽²⁾ (feet) | Product Thickness (feet) | TPH as Diesel (mg/l) | TPH as Waste Oil (mg/l) | PCBs mg/l |
|-----------------|--------------------|--------------------------------------|--|--------------------------|----------------------|-------------------------|-----------|
| MW-1 | 88 | DRY | NA | NE | NT | NT | NT |
| MW-2 | 90 | DRY | NA | NE | NT | NT | NT |
| MW-3 | 90 | DRY | NA | NE | NT | NT | NT |
| MW-4 | 95 | 88.04 | 288.22 | NE | ND | ND | ND |
| MW-5 | 110 | 86.53 | 296.02 | NE | ND | ND | ND |
| MW-6 | 109 | 88.99 | 290.16 | NE | .5 | ND | ND |
| MW-7 | 109 | 85.40 | 293.54 | NE | 4.7 | 2.3 | ND |
| MW-8 | 109 | 89.92 | 288.64 | SHEEN | 130 | ND | 6.3 |
| MW-9 | 108 | NC | NA | NA | NT | NT | NT |
| MW-10 | 111 | 89.30 | 288.74 | NE | .5 | ND | ND |
| MW-11 | 75 | DRY | NA | NE | NT | NT | NT |
| SG | NA | 0.11 ⁽³⁾ | 300.11 ⁽⁴⁾ | NA | NA | NA | NA |

NOTES:

- (1) Below top of casing
- (2) Feet above mean sea level (USGS Datum)
- (3) Reading on the staff gage
- (4) 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



LEGEND

MW-4 (288.22) MONITORING WELL WITH GROUND WATER ELEVATION (feet)

283 GROUND WATER ELEVATION CONTOUR (feet above mean sea level)

ASSUMED DIRECTION OF GROUND WATER FLOW

(*) DRY OR NOT ACCESSIBLE WELL

(300.11) SURFACE WATER ELEVATION (feet, above mean sea level)



GROUND WATER SURFACE CONTOUR MAP ON FEBRUARY 21, 1990

INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

PROJECT NO. 10-1682-03

DRAFTED BY: L. Sue

DATE: 3-12-90

CHECKED BY: K. Jesionek

DATE: 3-12-90

PLATE

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