

Memorandum

To : Gene Boyer

Date : June 16, 1988

Subject: Review of Ekotek-
Lube Revised
Workplan

From : Bill Owen

Here are my comments on JayKim Engineers' revised workplan for Ekotek-Lube:

A. Proposed Residual Investigation

1. A proposal to test the integrity of the tanks should be included in this section.

B. Proposed Subsurface Investigation

1. (Paragraph 4): Possible hole locations should not be ruled out; due to "hardscape and unknown location of underground pipes", without first attempting to locate these "pipes" using geophysics (e.g. metal detector, EM-31, pipe locator, etc.).

C. Soil Sampling

1. Compositing the surface and 1 1/2-foot samples is O.K.; however, the 3-foot and 6-foot samples should not be composited.
2. If split samples will be retained for future analysis, careful attention should be paid to sample holding times.
3. How will the borings be logged? From cuttings only? The ideal method would be to continuously core the holes. Another alternative, though less desirable, would be to collect cores at 2 1/2-foot intervals, logging cuttings in-between.

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D. Water Sampling

1. These first wells should sample only the uppermost aquifer. Deeper aquifers can be sampled later as needed to determine the extent (if any) of groundwater contamination.
2. The use of 25-foot screens is unacceptable. Long-screen wells act to dilute samples, and in this case may act as a pathway for shallow contaminants to enter a lower aquifer. Maximum acceptable screen lengths are warranted only for low-producing zones (e.g. clay, silt), and should be no longer than 10-feet.
3. The grade of sand to be used as a filter pack should be specifically based on the lithology of the screened interval.
4. A bentonite seal (minimum thickness = 3 feet) should be placed between the filter pack and grout seal.
5. How will the wells be developed? Development should be by surging and pumping, or bailing.
6. The minimum volume of water to be purged prior to sampling should be specified (around 3-5 well volumes). The following water parameters should be observed during purging to ensure stabilization prior to sampling: pH, temperature, conductivity.
7. Both wells and borings should be surveyed for location and elevation.

E. Analysis

1. The water samples should be analyzed immediately in the field for pH, temperature, and conductivity.
2. EPA method 6010 should be included in the summary of testing methods.

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