RATECH

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April 10, 1990
Project 4454/3

Ms. Naoko Ward
The Plymouth Group
1616 N. Shoreline Boulevard
Mountain View, California 94043-1316

Subject: Work Plan to Investigate PCB Finding
Sunnyside Commons II
Hayward, California

Dear Ms. Ward:

This Work Plan describes our scope of work for further investigation of the Sunnyside Commons II site. In particular, we will be examining the area immediately surrounding location HS-3. Our initial testing found a trace amount (1.4 parts per million) of the poly-chlorinated biphenyl (PCB) Aloclor 1254 in the shallow soil sample from this location.

Although this concentration is an order of magnitude below the California's threshold for "hazardous" classification, the Hayward Fire Department wants documentation regarding the source of the PCB and its extent in the soil.

SCOPE OF WORK

Source Definition

There is no readily apparent source for PCBs at the subject residential site and the compounds were not targeted in our environmental investigation. The analysis for PCBs was only performed because they are chemically similar to chlorinated pesticides (which were targeted) and thus share an EPA test method (EPA Method 8080) with the pesticides.

The most publicized use of PCBs are in electrical transformer cooling fluid. Besides transformers and pesticides, the compounds were also historically used as additives in some hydraulic fluids, some plastics, some automobile parts, and some lubricants/cooling fluids for AC motors in electric appliances. Any of a number of common household/automotive repair projects could have inadvertantly caused this minute finding.

Although it is doubtful that the true source of this finding will be able to be determined, we plan to interview the subject property owner regarding historical activities that have occurred around HS-3. The recollections may give us a clue to one or more plausible explanations.

Supplemental Sampling and Analysis

We plan to demonstrate that the subject PCB finding is quite limited by collecting and analyzing new soil samples from points surrounding the initial sample at HS-3. We will cover the four principle lateral directions (north, east, south and west) with discreet samples at 12-18" depths, five feet from HS-3. To cover the vertical direction, we will collect a sample at location HS-3 from a depth interval of 30-36". The five soil samples will be submitted to a State certified laboratory to be analyzed for PCBs using EPA Method 8080.

All sampling equipment will be cleaned prior to use to avoid introduction of contamination. Samples will be kept iced or refrigerated for preservation from the time of collection to the time of testing. Standard chain of custody procedures will be followed for sample handling.

Reporting

Upon the completion of items described above, we will prepare a report describing the work performed, summarizing the findings, and discussing our conclusions and recommendations.

SCHEDULE

We are ready to proceed with the work described herein immediately upon receipt of your written authorization and Work Plan approval from the Hayward Fire Department and Alameda County Health Agency. Laboratory testing turnaround for the soil samples will be in accordance with your desire for urgency (range: 48 hours to two weeks). Our report can be completed within about one week of receiving typed laboratory results.

Prepared by,

TERRATECH, INC.

E.R. Ltl

Eric R. Lautenbach, P.E.

erl/tcm

cc: Hugh Murphy, Hayward Fire Department
Pam Evans, Alameda County Health Agency