



CURRENT ENVIRONMENTAL SOLUTIONS

SIX PHASE HEATING™

GOES FROM

DNAPL TO DRINKING WATER !!



Oregon
John A. Kitzhaber, M.D., Governor

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January 8, 2002

Mr. [redacted]
[redacted] Pharmaceuticals, Inc.
[redacted] CA

RE: Six Phase Heating Results

Dear [redacted]:

Thank you for providing the latest sampling results (via email on 12/31/01 and 1/3/02) for the [redacted] Pharmaceuticals site located at [redacted] Ave., Portland, Oregon. Based on these results and data gathered throughout the application of Six Phase Heating (SPH) at this site, we have concluded that this technology has successfully reduced contaminant concentrations in groundwater to levels that indicate dense, non-aqueous phase liquid (DNAPL) has been removed or otherwise treated. In addition, while there has been some migration of dissolved phase contaminants during the SPH application, migration of DNAPL appears to have been prevented. Thus the objectives for this remedial action, as described in the Record of Decision (August 23, 1999), have been met. We are very encouraged at the apparent success of this technology in addressing what is typically a highly intractable problem.

The ROD also indicated that, to the extent feasible, the selected technology would be applied until concentrations likely to be protective of human health and the environment have been achieved. The performance monitoring data suggest that contaminant concentrations are below EPA drinking water maximum contaminant levels (MCLs) at most of the monitoring points.