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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Case No: 046754
Chemical: 123000 Isoxaflutole

MEMORANDUM

Date: 17 December 1999

To: Dan Kenny
Herbicide Branch
Registration Division

From: Ian Kennedy, Ph.D., Hydrologist
Environmental Risk Branch 2
Environmental Fate and Effects Division

Ian Kennedy 17 Dec 1999

Thru: Jean Holmes, Acting Branch Chief
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Jean Holmes 12/17/99

Subject: Status Reports on Tile Drain Monitoring Studies

Rhône-Poulenc has submitted quarterly status reports for five simple tile drain studies conducted in the spring and summer of 1999. These studies were intended to measure concentrations of isoxaflutole and degradates in tile drain outflows. These reports summarize data for approximately the first 8-10 days of these studies. The Iowa sites, where the weather was wet during this period, showed high concentrations of isoxaflutole and its two principal degradates. Concentrations were much lower in the Ohio sites, which were dry for much of the period.

The most commonly detected chemical in the studies was RPA202248, with peak concentrations of 1.856ppb at the Bagley, IA site and 1.321ppb at the Dawson, IA site. The Ohio sites by contrast received less than one tenth the precipitation of the Iowa sites and showed both little outflow from the tile drains as well as low concentrations of isoxaflutole, its degradates and the bromide tracer in any of the samples.

There were also detections of RPA202248 in the samples taken in the ditch downstream of the tile outlet, and in the river sampling site further downstream. These detections indicate that isoxaflutole was used elsewhere in vicinity of the areas under study during spring of 1999. Concentrations of RPA202248 at the river sampling point were above 0.022 ppb at all sites except New Holland, OH.

EFED will conduct a more complete analysis of these simple tile drain monitoring studies when the final reports are available.