



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

July 22, 2005

MEMORANDUM

SUBJECT: Additional Experimentation on the EFED Drinking Water Project

FROM: Christian Byrne
BEAD/Environmental Chemistry Laboratory

TO: Thuy Nguyen
OPP/EFED

Enclosed is a copy of the August 2004 additional experimental trials that were conducted regarding the results of the chlorination of laboratory water containing dimethoate and malathion. In these trials, laboratory water was spiked singularly with dimethoate and then malathion and then both together. The results would indicate that the final results of the study are quantitative – they are reproducible within the design and context of the study. However, they are not definitive – there is not stoichiometric balance between the reactants and the products. The conversion of dimethoate to omethoate in three different waters by two different laboratories was quantitatively measured and the conversion to that product was ~16-20%. The study can not be said to be definitive because the study did not explain the missing mass of the reactant and consequential products. Thus, there is uncertainty in the results.

If you have any questions regarding this additional information, please contact me here at the laboratory at (601) 688 3213.

cc: Joseph Ferrario, ECB Chief w/o additions
Fred Siegelman, ACB Chief w/o additions
Diane Rains, ACB Team Leader w/o additions
Steve Knizner, BEAD Associate Division Director w/o additions