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Monsanto

FROM (NAME & LOCATION): C. F. Buckley - W. G. Krummrich Plant

DATE: September 29, 1976

SUBJECT: Federal EPA
PCB Sampling Sept. 23, 1976

REFERENCE:

TO: P. E. Heisler

cc: R.W.Flint, A. Gallion, E.R.Billen, A.E.Leisy, W.E.Scruggs, R.L.Harness, F.J.Basile,Jr., H. Campbell, H.J.Horner, E. Heumann, J. Munoz, R.S.Nelson -E1SF, J.C.Weber -B2SK, P.S.Park -E2NH, M.A.Pierlo -E1SF, R.E.Keller -T-1-E, J.P.Mieure -T-2-E

Messrs. R. W. Libby, Supervisory Physical Scientist, E. Sturino, Chief Chemist, Organics Section, J. Slovick, Engineering Technician all of U.S. E.P.A. and L. Estep, Environmental Protection Engineer Illinois E.P.A., visited the WGK plant on September 23, 1976. They took grab samples at the waste treatment plant influent and effluent and made a 4 hour composite sample at Sewer box 1A on Route 3. This manhole receives the total WGK plant effluent less the small stream from Dept. 213 which flows North to Monsanto Avenue but includes waste from the Village and Cerro Copper and Brass. The composite was made from three grab samples taken at 09.15, 11.15 and 13.15 hours. We estimated the flow by stick measurement in the flume after each sample was taken to be 7000 gpm,5,800 gpm and 5200 gpm. All samples were divided between three quart bottles. One quart of each sample was given to Monsanto. The temperature and pH of each sample was measured on site.

We explained that there was no place to obtain a sample of WGK total effluent without including the Village flow which include Rogers Cartage, Sterling Steel and Cerro Copper and showed them where these entered the system. They did not take samples from these points. Harry Campbell discussed analytical methods with Emilo Sturino and took charge of our samples. He discussed the analysis with Jim Mieure of Bob Keller's group and decided to send the complete samples to his group for analysis. They can use the same technique as the EPA - that is G.C. Mass Spec. combination and expect to get values for all the components that the E.P.A. will be looking for. These are PCB, Hexachlorobenzene, Hexachlorobutadiene, Polychlorinated Terphenyls, Pentachlorophenol and Polychlorinated Naphthalene.

The party toured the Village Waste Treatment Plant with Bob Harness. Roscoe Libby and Larry Estep were very interested in all details of the Village Plant. Libby asked if we had any plans for pretreatment of PCB

effluent before discharge to the sewer system with activated carbon or other process. He was told we had none. We did not inspect or sample any operations or sewer boxes within the WGK plant boundary nor did we inspect or sample the outfall at the river.

All discussions took place in a cordial atmosphere.

C. F. Buckley

/ghw