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(NAME & LOCATION) J. H. Davidson B2S F

July 6, 1972

CC:

T. L. Gossage	B2S L
N. T. Johnson	B2S F
E. L. Shimley	1010
R. E. Hatton	B2S F
G. F. Fague	1320
W. R. Richard	T3A
L. B. Stark	W4A
J. F. Herber	T3G
R. E. Keller	T1B
E. S. Tucker	1760
J. R. Savage	B2S L
W. B. Papageorge	B2N A

Trip Report
General Motors Corporation
Detroit, Michigan

C. Paton
B2S C

Present for GM:	W. P. Ward	Corporate Plant and Environmental Engineering
	G. E. Calhoun	Chevrolet Division Environmental Control
	R. E. Sobczynski	Chevrolet Division Analytical Chemist
	E. A. Ewing	Pontiac Division Environmental Control
	H. Falk	Pontiac Division Laboratory Supervisor

Present for Monsanto: W. B. Papageorge
E. S. Tucker
G. F. Fague
J. H. Davidson

Purpose of Call:

1. Present analytical evidence showing Pydraul 312 C does not contain PCBs as reported by Pontiac analytical personnel. Present analysis of Pydraul 50 E showing no PCBs since several other GM plants use this product.

2. Gain commitment for Ward to withdraw instructions for plants to "hold" Pydraul fluids due to possible PCB contamination

Summary:

An excellent presentation by Scott Tucker of the analytical work on both Pontiac drum samples of Pydraul 312 C as well as our corresponding reserve samples left no doubt that the peaks Pontiac and Chevrolet

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personnel were seeing were not PCBs but interfering materials from 312 C. The presentation was well received and Ward agreed to immediately notify division and plant personnel of these results and to lift the instructions to "hold and not use" Pydraul fluids in various plants.

Monsanto committed to identification (as specific as possible by mass spectograph) of the interfering materials so that GM will be prepared if State of Michigan officials test any of the new Pydraul fluids.

Details:

A total of sixteen chromatograms were presented by Scott Tucker to demonstrate that General Motors personnel were seeing interfering materials from 312 C and not PCBs in Pydraul 312 C drum samples. Analyses presented included:

Pydraul 312 C	Pontiac Drum samples	Lot QB09800X112 and X113
Pydraul 312 C	Monsanto reserve samples	Lot QB09800 and QB09600
Pydraul 312 C	Pontiac and Monsanto reserve samples	spiked with 20 ppm PCB
Pydraul 50 E	Monsanto storage tank	
Pydraul 50 E	Monsanto storage tank	spiked with 20 ppm PCB

Analyses presented showed results using General Motors sample preparation procedure and Monsanto sample preparation procedure. A review of chromatograms using the different preparation procedures revealed that Pontiac and Chevrolet analytical personnel were not removing components of Pydraul 312 C in the preparation procedure and these were showing up at the 20-120 ppm level in the same range as Aroclor 1242 (but not the same fingerprint). Tucker discussed Monsanto sample preparation procedures in detail with primary emphasis on the fact that working with hexane as the matrix is much different than with water. This was understood and well received by GM personnel, particularly Herb Falk who expressed appreciation for Tucker's work and explanation of the problem. It was agreed that Falk and others who had future questions on PCB work should phone Scott directly. An open invitation was extended to any analytical people wishing to visit our laboratories.

The only negative response to the situation as a whole was by Gerry Calhoun, who indicated that while believing our story, he found no peaks in the area of PCB (Aroclor 1242) when analyzing Stauffer and Houghton's phosphate ester. His reasoning was that having to explain interferences to the State of Michigan (who use the same sample preparation and methodology as GM) was time consuming and using competitive products would avoid this problem. This reflected Calhoun's problem-oriented personality as well as his feeling that Monsanto had not presented

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a true picture on Pydraul 312 A by saying it did not contain PCB's. Other GM personnel indicated they were very "gun shy" on PCBs particularly because we had indicated no PCB's in 312 A and then retracted this statement later after finding low levels of PCB contamination.

It was obvious at this and prior GM meetings that GM personnel have not established a working relationship and communication lines with State of Michigan Water Resources Commission personnel. They are very much afraid that Water Resources Commission people are continually trying to find a pollutant that GM says they have eliminated but in fact have not and this would be a big publicity item for Commission personnel.

Bill Papageorge outlined the approach GM could take with State of Michigan people and also discussed the findings, recommendations and probable effects of the Federal Task Force report on PCB's. After some discussions by Bill, Calhoun took a much more reasonable position and changed from a somewhat antagonistic stance to one of mutual commiseration on pollution problems in general.

Concerning the interfering materials defined by Tucker, all GM people in attendence felt strongly that we must identify these components as specifically as possible. They do not feel qualified to do so and want this information available for their own satisfaction as well as for the State of Michigan should the subject come up. We agreed to do so after Scott indicated this was possible with a reasonable amount of work using mass spectographic techniques.

The meeting concluded with Ward getting each GM representative's agreement that he was satisfied with Monsanto's response to their problem. Ward agreed he would inform all division and plant representatives that the problem had been solved and that the new Pydraul fluids did not contain PCB's. He agreed this would be done immediately as our sales representatives will be in contact with GM plant personnel indicating our clean bill of health.

Action:

1. JHD forward letter (after discussion with Tucker) to Bill Ward indicating approximate date we will have interference materials identified.

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2. Scott Tucker to forward letter to Ward outlining interference materials and indicating no PCB's in Pydraul 312 C or Pydraul 50 E (specific lots) down to 0.5 ppm. Review with Marketing and Law Department.

3. JHD notify field sales on results of meeting

4. Manufacturing to analyze new Pydraul fluids for PCB's to assure no PCB contamination and provide background information should a similar situation arise.
(JHD memo to J.R. Savage)

5. Bill Papageorge to consider a trip to the State of Michigan Water Resources Commission (with Scott Tucker) to update them on our progress on removing PCB's and PCT's from Pydraul fluids and to discuss possible analytical problems in analyzing the new Pydraul fluids.

J.H. Davidson

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