Tucker Dep. Exhibit 1

The handwritten notes and underlining in this exhibit were made by OMC's counsel.

For a clean copy of the exhibit, see the produced documents.

3-31-6

Monsanto

FROM (NAME & LOCATION): R. E. Keller - St. Louis Organic Research - South Second Street

DATE: April 17, 1970

cc: J. Mason
H. S. Bergen
J. E. Springgate
R. E. Kelly
E. P. Wheeler
W. R. Richard
M. W. Farrar
E. S. Tucker

SUBJECT: ~~ENVIRONMENTAL MATERIALS ANALYZED~~ BY MONSANTO FOR PCB's

REFERENCE:

TO : W. B. Papageorge

PERSONAL AND CONFIDENTIAL

This note summarizes work we have done to date on the detection of PCB's in environmental materials. The attached table covers a total of 167 samples which have been analyzed.

PCB's typical of our Aroclor products have been found in -

- water and sediment from nine US rivers, one UK river and Lake Michigan,
- air (atmospheric, 0.05 mg PCB/cubic meter) at the Anniston plant,
- fish from Lake Michigan and three midwest rivers,
- human fat from a midwest biopsy specimen and
- milk from Maryland and Ohio dairy farms.

The water, sediment and air samples contain PCB's typical of Aroclor 1242, 1248, 1254 and/or 1260. The milk, human fat and fish samples contain PCB's most typical of Aroclor 1254.

REK

R. E. Keller

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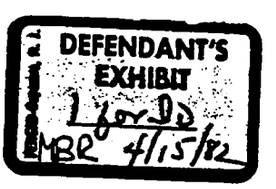

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ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

Industrial

Manufacturer or User and Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed		PCB's Found Most Typical of Aroclor 1242	1248	1254	1260	PCB Levels	Analysis Technique
Monsanto, US Anniston, Alabama	Snow Creek	Air	(3)	x				(0.05 mg PCB/cu meter	EC/GC
	Choccolosso Creek	Water	(23)	x	x	x	x	ppb-ppm	EC/GC
		Sediment	(12)	x	x	x	x	ppb-%	EC/GC
		Fish	(2)			x		ppm	EC/GC
Monsanto, US W. G. Krummrich Sauget, Illinois	Mississippi River	Water	(59)	x	x	x	x	ppb-ppm	EC/GC
		Sediment	(12)	x	x	x	x	ppb-%	EC/GC
Monsanto, US Pensacola, Fla.	Escambia River	Water	(7)			x		ppb	EC/GC
		Fish	(1)			x		ppm	EC/GC
Monsanto, UK Newport, England	River Severn (Uskmonth Area)	Sediment	(4)	x				ppb-ppm	EC/GC
National Cash Register Portage, Wisconsin	Fox River Wisconsin River	Water	(12)	x				ppm	EC/GC
General Motors Corp. Central Foundry Div. Bedford, Indiana	For River	Water	(1)	x	x			ppm	EC/GC
Johnson Motors Waukegan, Illinois	Lake Michigan	Water	(4)	x				ppm	EC/GC

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Manufacturer or User and Site Location	Associated Waterway(s)	Matrix and No. of Samples Analyzed		PCB's and Most Typical of Aroclor 1242	1248	1254	1260	PCB Levels	Analysis Technique
Wisconsin Steel Chicago, Illinois	Chicago Metropolitan Sanitary District Sewer	Water	(3)	x				ppm-%	EC/GC
Wheeling Pittsburgh Steel Steubenville, Ohio	Ohio ? River	Water	(1)	x				ppm	EC/GC
		Sediment	(1)	x				ppb	EC/GC
Lester Coating Bedford, Ohio	Storm Sewer	Water	(1)	x				ppm	EC/GC
Central Diecasting Chicago, Illinois	Downtown Sanitary Sewer	Water	(2)	x				ppb-ppm	EC/GC

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ENVIRONMENTAL MATERIALS ANALYZED BY MONSANTO FOR PCB's

Non-Industrial

Organization Supplying Sample	Location of Sampling Site	Matrix and No. of Samples	1242	1248	1254	1260	Range of PCB Levels	Confirmatory Technique
Wisconsin Alumni Research Foundation Institute, Inc.	Manitowoc River Wisconsin	Fish Composite (1)			x		ppm	EC/GC, GC/Mass
	Kewaunee River Wisconsin	" (1)			x		ppm	EC/GC
	Burns Ditch Lake Michigan	" (1)			x		ppm	EC/GC, GC/Mass
	Manistee River Michigan	" (1)			x		ppm	EC/GC
	Source Unknown	Human fat biopsy sample (1)			x		ppm	
Maryland Cooperative Milk Producers, Inc.	Dairy Farms belonging to Coop.	Milk (5)			x		ppb	EC/GC
		Water (4) (Stream and tank drinking water)					N. D. (<1 ppb)	EC/GC
State of Ohio Department of Agriculture Food, Daries and Drug Laboratories	Dairy Farms	Silo Scrapings (1)			x		%	EC/GC
		Milk extract (1)			x		ppm	EC/GC, GC/Mass
		Raw Milk (3)			x		ppm	EC/GC

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