

CC: T. A. Foster

August 29, 1984

PERSONAL AND CONFIDENTIAL

TO: J. A. SCHMID

FROM: J. F. DOUGHTY

J. F. Doughty

SUMMARY OF C-8 IN WATER SAMPLING PROGRAM

This letter summarizes the sampling procedure and the results of the program to obtain C-8 concentration data for drinking water down river from the plant. The original set of samples were taken on March 15, 1984. A second set of samples was taken at selected locations on June 4, 1984.

The samples were taken by going to gas stations or small grocery stores in communities down stream of the plant and asking to have a plastic jug filled with drinking water. The sample obtained was then transferred to 8 oz. glass bottles. Two bottles were obtained. One bottle was used for analysis and the second was used as a retainer for future use if needed. Samples were also obtained up river to check for a background or blank and to insure that the samples were not being contaminated in the sampling procedure.

The original plan was to have the samples analyzed here on plant by a modification of the procedure used to determine C-8 in air. To get sensitivity below the concentration calculated for dilution of C-8 emissions by the river flow, a sample size of 100 ml was freeze dried. The subsequent analysis produced high and inconsistent blanks and data. When the analytical problems could not be resolved on plant, the samples were sent to the Experimental Station for analysis by a modification of the C-8 in blood procedure. The details of the analytical procedure are given in the attached letter from S. R. Laas to J. F. Doughty.

The table below shows the locations of the samples taken on 3/15/84, the sample designation, and any comments.

<u>SAMPLE</u>	<u>DESIGNATION</u>	<u>COMMENTS</u>
Parkersburg	P	Taken from my home.
Washington Works	WW	Taken from drinking fountain.
Distribution Center of Parkersburg	D	Private well back from river.

RJZ009213

EID079096

J. A. SCHMID

- 2 -

AUGUST 29, 1984

<u>SAMPLE</u>	<u>DESIGNATION</u>	<u>COMMENTS</u>
Powell's Store Washington, WV	WB	Thought to represent Lubeck water.
Mason's Village Mkt Little Hocking, Ohio	L	
Oiler Exon Belleville, WV	B	Private well
Reeds Country Store Reedsville, Ohio	RD	
Randy's Amoco Route 68 Ravenswood, WV	RW	
Gulf Station Racine, Ohio	R	Known to be city water.
Gulf Station Route 2 Point Pleasant, WV	PP	
Sohio Station past bridge to WV Gallipolis, Ohio	G	First community to take water directly from the river.

The table below shows the locations of the samples taken on 6/4/84, the sample designation, and any comments.

<u>SAMPLE</u>	<u>DESIGNATION</u>	<u>COMMENTS</u>
Du Pont	WW	Taken from drinking fountain.
Powell's General Store Washington, WV	WB	
Lubeck Pennzoil Lubeck, WV	LB	In middle of Lubeck.
Mason's Village Mkt Little Hocking, Ohio	L	

The attached letter to J. A. Schmid from J. F. Doughty summarizes the data and the location of the samples in relation to the plant. Note that the original value for the Little Hocking sample should be changed to 0.6 instead of 0.8. This change is made by hand in the letter attached.

JFDoughty:0072t
Attachments

RJZ009214

EID079097