Date: June 15, 1988

To: Bill Wawrzyn
    Mike Sloat
    Mark Tusler SW/3
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From: Ted Bosch *TB*

Subject: Saukville odor test

On June 6, 1988 samples were collected from Saukville and tested for odor. Samples were collected from municipal wells 1,2, and 3. Samples were also collected from the Saukville wastewater plant outfall, the discharge from Freeman Chemical Corp. and, upstream from Saukville.

The test failed to determine a very accurate number of the threshold odor because of trouble selecting appropriate dilutions and turnover in the staff which was conducting the odor tests. Some general conclusions can still be reached from this test.

1. Municipal Well 3 had no detectable odor.

2. Municipal Well 1 had some odor in a low concentration. This odor was the same sweet smell as from the other contaminated sources.

3. Municipal Well 2 had considerable odor which was the same as the original odor problem.

4. There was an odor in the upstream sample, this was at a low level and was not the sweet smelling odor in the other samples.

5. There was a strong odor in the Saukville wastewater plant outfall and the Freeman Corp outfall. The odor in both outfalls was a sweet smell, it appeared to be stronger in the Freeman outfall.

The test results are attached.

SAUKVILLE ODOR TEST RESULTS JUNE 6, 1988

BOTTLE NUMBER	1	2	4	6	82	BLANK
RUN #1 SOURCE	WELL 1	WELL 3	MILW RIV	FREEMAN	POTW	
TO #	2	2	2	32	16	
RUN #2 SOURCE	WELL 1	WELL 2	FREEMAN	POTW	WELL 2	
TO #	4	64	256	64	256	
RUN #3 SOURCE	FREEMAN	WELL 1	WELL 2	POTW	MILW RIV	
TO #	512	8	128	128	16	

RESULTS(+ INDICATES ODOR DETECTED - INDICATED NO ODOR)

SOURCE WELL #1   WELL #3

TESTER	TO#2	TO #4	TO#8	TO 2
Mark	+	+		--
Bob	--	--	+	--
Greg	--	+	--	--
Mike	+	--		--
Roger	+	--	--	--
Marg			---	
Paul			--	
Ted		--	--	
Kevin				

WELL #2   MILWAUKEE RIVER

TESTER	TO#64	TO#128	TO#256	TO#2	TO#16
Mark	+		--	+	
Bob	--	+	+	+	+
Greg	+	--	--	+	--
Mike	--		--	--	--
Roger	+	+	--	+	--
Marg		+			--
Paul		+			--
Ted	+	--	--		--
Kevin		+			--

FREEMAN OUTFALL   SAUKVILLE POTW

TESTER	TO#32	TO#256	TO#512	TO#16	TO#64	TO#128
Mark	+	--		+	+	
Bob	+	+	+	+	+	+
Greg	+	+	--	+	+	+
Mike	+	+		+	+	+
Roger	+	+	+	+	+	+
Marg			+			+
Paul			+			+
Ted		+	+		--	--
Kevin			+			+