

Monsanto

FROM (NAME & LOCATION)

E. E. Stewart, Krummrich Plant

DATE

August 31, 1971

cc

Messrs.
W. C. Engman
P. E. Heisler

SUBJECT

PCB SEWER LOSSES

REFERENCE

TO

Mr. A. E. Leisy

PCB losses as measured from the plant and at the treatment plant have been as follows this year.

	Combined 24" & 30" Plant Exit Sewers	Treatment Plant Influent	Treatment Plant Effluent
January	44 #/day	84 #/day	49 #/day
February	29	50	12
March	34	25	.9
April	29	76	24
May	20	68	22
June	15	77	36
July	18	20	8
August (thru 25th)	13	32	12

Losses as measured at the plant exit sewers continue to decrease slightly. Losses at the treatment plant effluent appear to be leveling and are above the plant goal of 2 #/day.

There is a discrepancy in the difference between the plant exit sewers and the treatment plant influent. These two values should be about the same. We have not found major amounts of PCB's in the flows external to the plant that combine with the plant sewer before entering the treatment plant.

Also, measurements at the department average less than 1 #/day. This is far below values from the plant or at the treatment plant.

Our immediate plans are to:

1. Obtain additional samples from an adjacent (3B) sampling spot in the 24" sewer to cross-check routine samples obtained at (2A).

9/6 installed high speed

sample at 2A

slow fast fast

pump pump pump

2 #/day 24 1,420

slow

pump

9/6 9/7 9/8

compared

1 #/day

Date

3B

2A

8/25/71

55 #/day

12.8 #/day

8/26

0.4

10.0

8/30

0.5

3.2

8/31

0.4

7.7

MONS 098931

Mr. A. E. Leisy
PCB Sewer Losses

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WGK
8/31/71

9/19 Grab Samples
1-B (30") 4 1/4/day
2-A (24") 4 1/4/day
3-B (24") 2 1/4/day
Flame 39 1/4/day

2. Obtain grab samples at treatment plant and possibly other locations to compare with routine samples in effort to cross-check existing sampling procedure.

3. Install additional sampler at point where department losses are measured (42). Will be a shift sampler and will check only for presence of two phases. Will not analyze. Sample tube to extend to bottom of sewer box. Intent is to detect slug flows from the department.

830 52 1/4/day at
Treatment Plant
different flame
grab sample

Installed 9/2/71
Compreh not shift
Removal 10/1

9/18 Blowed down by 42
at 24 and west main
42, 44 & 4-X

Compare analyses before and after blowing of sewer lines (mercury project) to note possible removal of PCB's from sewer system.

9/16 Blowed 4-X down
for 2-A

5. Complete research work related to analysis of PCB's in sewer streams. Resolve quantitative method based on peaks or area under GLC curves.

Ell

E. F. Stewart

1cmz

2A 24"
flow feet
9/19 2 24
9/22 1 41
9/23 1 25

3B 30"
flow feet
9/19 1 10
9/30 1 2

Ell
flow feet
2/1/72 17 10
9/30 8 6