



TO: Burlington
FOR: R. R. Neugold
FROM: F. W. Kanzler
RE: MONTHLY ACTIVITY REPORT - ENVIRONMENTAL AFFAIRS
December, 1984

DATE: 1/7/85

COPY TO: R.S. Cole
J.W. Kachtick
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File

I. EPA-NJDEPA. WATER1. Wastewater Treatment Plant Performance

The limited information available to date from the contract laboratory revealed no excursions. This report period was the first month the Effluent Treatment Plant operated under the new NPDES/NJPDES Permit requirements.

The use of waste sugar as food substitute for the biomass of the secondary treatment system during the scheduled plant shutdown was very successful.

2. NH₃-N and TDS Effluent Parameter Evaluationa. NH₃-N Methodology Study

Preliminary information from R.F. Weston revealed no changes in the NH₃-N levels in the Treatment Plant effluent waters employing different test methods. The two conventional (EPA-approved) methods and the specific ion electrode were used for the determination of the nitrogen levels.

It is suspected that the acidification step required for sample preservation results in a chemical change of the residual DHW-80, causing erroneous NH₃-N results. This test evaluation will be repeated during the scheduled treatability study when NH₃-N test capabilities will be available at the Plant. The abridged hold time will allow for the elimination of the acidification of the sample.

b. TDS and NH₃-N in Effluent Water

The December results revealed average TDS levels of 1300 mg/l. There was no difference in the TDS levels before or during the plant shutdown.

TEN 2123

The $\text{NH}_3\text{-N}$ data available for the first and third week samples show the influence of the shutdown. The average of the results for the three days 12/4 through 12/6 revealed 34 mg/l $\text{NH}_3\text{-N}$, while the $\text{NH}_3\text{-N}$ levels from 12/18 through 12/20 averaged 15 mg/l.

B. AIR

1. NESHAP

- a. Suspension and Dispersion Slurry
No excursions reported.
- b. Reactor and Tower Openings
No excursions reported.
- c. Water Stripper
No excursions reported.
- d. Incinerators
No excursions reported.

C. SOLID

1. Hazardous Waste Pick-Up

The hazardous waste pick-up scheduled for 12/13 was postponed twice by S&W Waste. The contractor indicated heavy waste flow at their TSD. Two of the eight drums accumulated exceeded the ninety-day hold period.

2. NUS Corporation Site Investigation

We were notified by NUS that they will conduct a site investigation of the Burlington Facility under contract with EPA. NUS indicated that soil, sediment, effluent and well water samples may be taken as part of the investigation. The statutory basis for the investigation is said to be RCRA, CWA and CERCLA.

II. OSHA

A. VCM

1. Personal Monitoring

Due to the scheduled plant shutdown, only twenty-five employees were monitored for VCM exposure. All but one revealed 8-hour TWA's below the PEL.

B. Lead

1. Personal Monitoring

The fourth quarter sampling showed two of the eight employees monitored for airborne lead exposure with lead results above the 8-hour TWA PEL.

C. Right-to-Know

1. NJDOH Questionnaire

Considerable time and effort, secretarial and staff, was exerted in the preparation of the questionnaire.

III. MISCELLANEOUS

A. Meetings-Seminars

I attended the CIC-Environmental Committee meeting on 12/4, the RCRA video teleconference on 12/11 and an Environmental Update Seminar conducted by AETC on 12/14.

Fred H. Kanzler
F.W. Kanzler

FWK/jst