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CORPORATE TECHNICAL SUPPORT
Third Quarter Summary 1976

Environmental Lab - P. M. Zakriski, J. W. Born, R. E. Harris, O. S. Kurtz,
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Considerable time has been spent in converting a conventional Bendix Hydrocarbon analyzer to a high temperature unit for emission testing at Martha Mills. The analyzer and sampling system are nearly completed and we hope to be using them at Martha Mills in the 4th quarter.

Preliminary work was carried out to measure the biodegradability of Carbopol resin. This preliminary work did not determine biodegradability. Further work has been deferred, pending a clarification of the needs of the marketing department.

Continued testing of the Helicure process waste water total logging was carried out this quarter.

A program is under way to determine how to use EPA method 106 for source emissions of vinyl chloride. The procedure as originally published by the EPA is bulky and awkward. Some modifications seem necessary.

Our report on vinyl chloride personnel monitor tubes was completed early in August. We have completed preliminary testing of the LSU pumpless badge. It performs well in the lab and now we intend to take it into the field. A status report will be issued in the 4th quarter.

We attempted two vinyl chloride personnel monitor cross-check studies. Only one was successful and it shows that we still have some labs that are off by 50%. The report is being prepared now.

A careful examination of the Hydrin process was continued beginning on August 1, with the plant start-up. Our work shows that the NIOSH carbon tube procedure performs satisfactorily for the sampling of the major chlorinated materials reported by O'Mara, Nikora, Koebel and Dorsch. Samplings are continuing for the length of the production run to determine worker exposure.

Continued evaluation of the Dow urinary phenol procedure has been carried out. We have improved the gas chromatographic resolution and are ready to begin urine testing.

We intend to conduct source emission tests at Marion very late this quarter. The purpose is to measure emissions of lead.

Meetings and Seminars: C. E. Titus attended the meeting of the Ohio chapter of the Air Pollution Control Association early in September. P. M. Zakriski attended a meeting at the National Bureau of Standards dealing with "Methods and Standards for Environmental Measurement".

The gas chromatograph, GC-auto sampler, AA-graphite furnace and digital pH meter arrived this quarter.

We have expanded our service capability with the addition of a technician, Mike Paschal and a chemist, Ed Harris.

Work on expansion of the laboratory will begin soon.

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