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Technical Service Report

Conoco Inc.
Research and Development Department
Analytical Research Section
Ponca City, Oklahoma

Report No. 149-80-839-1

To ✓H. L. Hackett, VCM, Westlake

From J. W. Wimberley, M. J. Whitaker, Research Services, Ponca City

Date December 5, 1980

Subject ANALYSIS OF SAMPLE NO. LCVCP-I-80-114, T-2 PIT SOLIDS

OBJECT:

To analyze the sample by the RCRA procedures and the organic vapor by GCMS.

CONCLUSIONS:

The attached table contains the data generated by the RCRA procedures.

The GCMS data obtained on a head space sample is given in the attached TSR by G. Keen. Jeff Meyers is available for interpretation of the significance of the data reported and its implication to the RCRA regulations.

DISCUSSION:

The sample had a disagreeable odor and should be handled in a hood. Several weeks after receipt of this sample, we began the analysis of several other VCM plant wastes, one of which was labeled LCVCM-5 (T-2 pit sludge). This particular sample failed the RCRA flash point specification (flash point = 76°F). Were these samples taken from the same pit? If so, this indicates the waste constituents are not very constant, or it could mean that it is simply very difficult to obtain a representative sample.

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REFERENCES

Research Notebook No. 4318, p. 9.

Chemical Analysis Method No. 11.062-80, taken from "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846, U. S. Environmental Protection Agency Office of Solid Waste.

TABLE 1

RCRA DATA

pH = 6.3
Flash point = 212°F+
% Solids = 51
Corrosivity = not measured, insufficient sample
Extracted metal concentrations:

ppm Ba	= 0.52
Cd	= <0.015
Cr	= <0.03
Pb	= <0.25
Ag	= <0.03
As	= <0.002
Se	= <0.002
Hg	= <0.01

Qualitative tests from sulfide and cyanide were negative.