

MEMORANDUM

AIR
PRODUCTS

*Att @ B L Rose
@ B D Helms*

TO: R. L. Duggan

DEPT.: PACE Pensacola

FROM: J. H. Phillips

DEPT.: Chem Manf Env Tech /5673

DATE: 4 March 1988

SUBJECT: Validation of Modified EPA Method #107 for VCM Analysis

cc: M. J. Bonin (Pensacola)
R. J. Coroar
J. H. Frost
~~B. D. Helms (Galvert City)~~
C. E. Shoop
P. J. Usinowicz

The validation of modified EPA Method #107 for the analysis of VCM will be completed by 18 March 1988. The steps for method validation are detailed in the attached memo from J. H. Phillips to P. U. Usinowicz dated 3 September 1987. The experimental work is being completed by C. E. Shoop of CRSD-Analytical. Chris broadened the experimental approach after discussions with M. Bonin, D. Hoffman and K. Broxson to include the evaluation of a Carbowax 20M + 0.8% KOH packed column to improve the separation. The experimental work will be completed according to the following schedule which has been confirmed by J. H. Frost.

<u>Completion Date</u>	<u>Experimental Task</u>
7 March 1988	Run external standards and spikes to demonstrate 100% recovery of VCM using the Carbowax 20M + 0.8% KOH column. Requires preparation of a standard solution of VCM.
8 March 1988	Demonstrate improved separation using the Carbowax column described above.
9 March 1988	Demonstrate interference of methanol when Porapak Q is used as a packing. Run GC-MS analysis of wastewater slurry and resin samples to demonstrate GC peak identities.
10 March 1988	Investigate the LLD and accuracy for VCM by spiking into wastewater samples that were determined to contain no VCM.
11 March 1988	Demonstrate adequate precision of the modified method. Run wastewater, slurry and resin samples on HS-100 using proposed column.

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Once the experimental work has been completed I will evaluate the data and prepare a letter requesting method modification to the EPA region IV. Letters will also be drafted for submission to the Florida DER and Kentucky DEP. My data review and document drafts will be completed no later than five working days after the experimental work has been completed. After review by yourself, M. Bonin, B. Helms and P. Usinowicz the documents will be submitted to the appropriate authorities.

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