

Environmental Protection Department  
South Charleston Plant

*Dist*  
January 20, 1975

To: Mr. C. E. Fry/Mr. A. E. Brigode  
Building 152-2

cc: Mr. J. L. Carvajal  
Mr. H. H. McGriff  
Mr. R. N. Wheeler ✓  
Mr. J. L. Worstell

From: Mr. R. L. Barker  
Mr. B. L. Murray  
Mr. H. C. Stemple  
Mr. H. H. Warwick  
Mr. W. C. Young

Subject: VCM Concentration From Hopper Cars  
Solvent Vinyl Resin Area  
Project No. 514-H-3-74

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JAN 21 1975

R. N. WHEELER JR.

The attached table shows four source samples and two area samples (representing the employees breathing zone) with VCM concentrations less than the action level of 0.5 ppm.

Please advise if you feel additional sampling is necessary.

/pl

Attachment

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035071

# FIELD SAMPLING SUMMARY

| Unit               | Solvent Vinyl Storage Area | Building Tracks    | Job Title                                             | Weighmaster   | Chemical               | Vinyl Chloride |          |             |                   |       |       |       |
|--------------------|----------------------------|--------------------|-------------------------------------------------------|---------------|------------------------|----------------|----------|-------------|-------------------|-------|-------|-------|
| Sampling Frequency |                            |                    |                                                       |               |                        |                |          |             |                   |       |       |       |
| Sample No.         | Date                       | Time (Minutes)     | Sampling Condition - Job Task                         | Conc. PPM (C) | Exposure Time Min. (T) | TWA PPM        | Employee | Type Sample | Concentration-PPM |       |       |       |
|                    |                            |                    |                                                       |               |                        |                |          |             | Low               | High  | Avg   |       |
| 1                  | 4/15                       | 1:35 p. m.         | Hopper car opening UCPX 51051                         | <0.05         |                        |                |          | Source      | Grab              |       |       |       |
| 2                  | 10/15                      | 2:30 p. m.         | Hopper car - 12" above manhead VYHG                   | <0.05         |                        |                |          | Area        | Grab              | <0.05 | <0.05 | <0.05 |
| 3                  | 10/15                      | 3:00 p. m.         | Hopper car - 12" above manhead VYHG 30 minutes later. | 0.3           |                        |                |          | Area        | Grab              | <0.05 | 0.3   | 0.15  |
| 4                  | 11/25                      | 9:35 a. m.         | Hopper car opening - 18" inside VYHG                  | 0.23          |                        |                |          | Source      | Grab              |       |       |       |
| 5                  | 11/25                      | 9:36 - 10:52 a. m. | Hopper car opening - 18" inside VYHG                  | 0.4           | 96                     |                |          | Source      | CT                |       |       |       |
| 6                  | 11/26                      | 11:20 a. m.        | Hopper car CCBX 55321 empty - contained VYHG          | <0.05         |                        |                |          | Source      | Grab              |       |       |       |

$$TWA = \frac{\sum T (T \times C)}{\sum T}$$

Sampling Frequency - <1/2 TLV No Further Monitoring  
 >Ceiling Value - 15 Min. TWA - Monitor Monthly  
 >1/2 TLV Monitor Quarterly

Checked - Environmental Protection Department W.C. Young-B.L. Murray

Approved - Department Head J.L. Norstell

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