

W Cy

AMBIENT AIR VCM MONITORING

GRAB SAMPLES - CHARCOAL TUBE SAMPLES

1974

	<u>Fence Line</u>	-	<u>Community</u>		<u>Fence Line</u>	-	<u>Community</u>
Total No. Samples	65		128		2		11
ND (None Detected)	57		119		None		10
> ND, < 0.5 ppmv	8		9		2		1
≥ 0.5 ppmv, < 1.0 ppmv	None		None		None		None
≥ 1.0 ppmv	None		None		None		None

1975

Total No. Samples	47		178		29		37
ND (None Detected)	46		173		25		30
> ND, < 0.5 ppmv	1		5		4		17
≥ 0.5 ppmv, < 1.0 ppmv	None		None		None		None
≥ 1.0 ppmv	None		None		None		None

1976 (Charcoal Tube Samples Only,
4 Hrs. Duration)

Total No. Samples			24		30
ND (None Detected)			20		29
> ND, < 0.5 ppmv			4		1
≥ 0.5 ppmv, < 1.0 ppmv			None		None
≥ 1.0 ppmv			None		None

1. Grab samples collected in 50 ml syringes and analyzed by directed injection in GC (FID)
2. Charcoal Tube samples collected by battery powered pumps, desorbed by solvent extraction then analyzed by GC (FID).
3. Sensitivity of methods (1) and (2) is approximately 0.05 ppmv. Hence, ND (None Detected) is less than 0.05 ppmv.

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COMMUNITY AMBIENT AIR VCM MONITORING

GRAB SAMPLES

CHARCOAL TUBE SAMPLES

1974

Total No. Samples	128	11
ND (None Detected)	119	10
> ND, < 0.5 ppmv	9	1
≤ 0.5 ppmv, < 1.0 ppmv	None	None
≤ 1.0 ppmv	None	None

1975

Total No. Samples	178	37
ND (None Detected)	173	20
> ND, < 0.5 ppmv	5	17
≤ 0.5 ppmv, < 1.0 ppmv	None	None
≤ 1.0 ppmv	None	None

1976

Total No. Samples	Grab Samples	30
ND (None Detected)	Discontinued	29
> ND, < 0.5 ppmv		1
≤ 0.5 ppmv, < 1.0 ppmv		None
≤ 1.0 ppmv		None

1. Grab samples collected in 50 ml syringes, analyzed by direct injection in GC (FID).
2. Charcoal tube samples collected by battery powered pumps for minimum of 4-hour durations. Desorption of any existing VCM by solvent extraction then analyzed by GC (FID).
3. Sensitivity in methods described above is approximately 0.05 ppmv. Hence, ND (None Detected) is less than 0.05 ppmv.

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AMBIENT AIR MONITORING
SEQUENTIAL SAMPLING - VAPOR FRACTION ANALYZER
NORTH CHARLESTON DISTRIBUTION CENTER

FENCELINE - NORTH OF UNLOADING RACK

	<u>No. 1 - West</u>	<u>No. 3 - Center</u>	<u>No. 5 - East</u>
<u>October, 1975</u>			
Total No. Samples	1116	1116	1116
Average, ppmv	0.3	0.2	5.2
Std. Dev. of Avg.	1.0	1.0	37
No. Times >25 ppmv	1	1	1
<u>November, 1975</u>			
Total No. Samples	1080	1080	1080
Average, ppmv	0.3	0.2	1.2
Std. Dev. of Avg.	0.3	0.2	4.4
No. Times >25 ppmv	None	None	16
<u>December, 1975</u>			
Total No. Samples	1116	1116	1116
No. Times >25 ppmv	None	None	16
<u>January, 1976</u>			
Total No. Samples	900	900	900
Average, ppmv	0.3	0.2	1.6
Std. Dev. of Avg.	0.5	0.3	3.4
No. Times >5 ppmv	None	None	71
No. Times >25 ppmv	None	None	5
<u>February, 1976</u>			
Total No. Samples	972	972	972
Average, ppmv	0.2	0.1	1.2
Std. Dev. of Avg.	0.5	1.1	4.2
No. Times >5 ppmv	2	1	63
No. Times >25 ppmv	None	1	23
<u>March, 1976</u>			
Total No. Samples	1080	1080	1080
Average, ppmv	0.1	0.0	0.7
Std. Dev. of Avg.	0.5	0.3	2.9
No. Times >5 ppmv	2	None	38
No. Times >25 ppmv	None	None	5

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AMBIENT AIR MONITORING (cont.)

	<u>No. 1 - West</u>	<u>No. 3 - Center</u>	<u>No. 5 - East</u>
<u>April, 1976</u>			
Total No. Samples	730	730	730
No. Times 5 ppmv	2	2	16
No. Times 25 ppmv	None	1	2

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4/23/76

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