



PUT IT IN WRITING

Date 13 December 1974

To See Distribution Subject PERSONNEL MONITORING FOR VCM

From M. H. Stermon - Calvert City CONTENT IN PVC AND COMPOUND PLANT.

() Take Action () For Your Approval (X) For Your Info () Discuss With Me
() For Your Comments () As Requested () File () Note & Return

Listed below are the results of 8 hr. TWA samples taken in the PVC and Compound plants during the week of 9 December 1974.

The PVC plant was shut down for maintenance when these samples were taken, and the Compound plant was doing blending work only.

PVC PLANT 2nd Shift 12/10/74

<u>Operator</u>	<u>ppm VC1</u>
Copelen	0.36
Keys	0.37
Boren	2.0
Faulkner	0.77
Dunnigan	0.88

COMPOUND PLANT 2nd Shift 12/11/74

<u>Operator</u>	<u>ppm VC1</u>
Haws	0.09
Clark	0.06
Harrel	0.04
Draffen	0.04
<u>Warehouseman</u>	
Austin	0.44


M. H. STERMON

MHS:dm

TO: J. T. Barr - V.F. R. I. Patel
J. D. Kramer F. L. Riddle
D. V. Lowe G. B. H. Speed
R. W. McGinnis
M. T. McHale

AP00040420

	1st Floor	2nd	3rd,
6-25-74	2.3	1.8	0.9
6-26-74	1.2	2.2	1.1
6-27-74	1.6	1.2	0.6

no storage tank vapor 60 ppm

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Personal UCM Sampling - 8-26-74 - Day Shift
(B)

Pump Count	Liter Sample	CH ₂ CS ₂ - gms	% Uchi - CS ₂	PPM UCM	Area	Name
4700	.8554	.6846	.0212	76.73	3rd floor Operator	Twy
4925	.89635	.6606	.0138	45.95	Utility 2nd floor	Hurst
6184	1.125488	.6891	.0180	50.3	"	"
2675	.505575	.6456	.00220	12.73	3rd floor Operator	Castleberry
6427	1.214703	.6617	.0200	49.8	"	"
6725	1.076	.6425	.0023	5.98	Main	Butler
5485	1.036665	.6865	.0008	1.24	400 Bagging	Boyd
6457	1.220373	.6881	.0017	3.16	"	"
4976	.79616	.6821	.0113	43.65	2nd floor Operator	Johnson
4513	.894166	.6788	.0002	0.70	5 Control House Operator	Twy
7631	1.388142	.6973	.0010	2.3	400 Bagging Operator	Timmons
6856	1.255784	.7417	.0074	19.57	2nd floor	Edwards
6176	1.124	.6841	.0081	21.75	"	"
5184	.97977	.6904	.0008	1.31	400 Bagging	Murray
4816	.91022	.6838	.0012	2.70	"	"
6404	1.0246	.6855	.0011	2.49	"	Timmons
5672	1.0323	.6798	.0124	37.40	2nd floor Operator	Johnson
4979	.7966	.6814	.0032	11.29	11 Main	Butler

AP00040422

Personal UCh Sampling - 8-27-74 - Afternoon Shift 207

(C)

Point	Area	UCh	CS	PPM UCh	Area	Name
4301	.813	.653	.0094	24.8	Operator 3rd Floor	Coplen
4623	.871	.6414	.0112	37.9	"	"
6720	1.270	.6286	.0044	10.0 12	Dryer	Faulkner
7215	1.364	.6484	.0032	7.0 13	"	"
5054	1.289	.6571	.0007	1.64 14	main	Butler
7769	1.243	.6605	.0032	7.84 15	"	"
4220	.675	.6821	.0025	12.6 16	Operator 2nd Floor	Hawkins
7222	1.156	.7001	.0062	17.3 17	"	"
6965	1.268	.6674	.0085	20.6	7121 Bagger	Beth
5400	1.711	.7059	.0049	9.1 18	"	"
4853	.883	.6721	.0019	6.7 19	Utility	Hines
5369	.977	.6636	.0060	18.8 20	"	"
4015	.759	.7068	.0028	12.0 22	Operator 3rd Floor	E. Corbett
4523	.855	.6798	.0005	1.82 22	"	"
5443	.991	.6399	.0056	16.8 23	Operator 2nd Floor	Brown
6802	1.238	.7126	.0034	9.0 24	"	"
5317	.851	.6881	.0077	28.7	Operator 2nd Floor	English
4516	.723	.6765	.0049	21.1	"	"

AP00040423

2208

Personal VCL Sampling 8-29-74 Midnight Shift

[illegible]

2214

9-9-74 MINUTE REPORT
Personal VCL Summary

Part	Time	Area	Time	Area	Name
1	15230	.97552	.6120	.0006	1.7 Dwyer Paulkner V
2	6857	1.295972	.6240	.0009	2.0 Dwyer Bill V
3	8183	1.30928	.6305	.0006	1.3 Dwyer Bill V
4	7453	1.19248	.6469	.0010	2.5 Dwyer Bill V
5	9375	1.40625	.5764	.0010	1.9 Dwyer Bill V
6	6931	1.205924	.6497	.0007	1.7 Dwyer Paulkner V
7	4492	.817514	.7537	.0026	9.5 3rd English V
8	4541	.790134	.6991	.0019	3.7 2nd Borey V
9	5413	1.346080	.6719	.0011	2.5 2nd Early White V
10	3572	.619520	.7112	.0016	3.2 2nd Borey V
11	7484	1.41476	.5747	.0009	2.0 2nd Borey V
12	7136	1.1634	.6057	.0074	18.9 1st Borey V
13	3105	.63440	.6026	.0003	1.4 2nd Borey V
14	4827	.77552	.6520	.0035	13.5 2nd Borey V
15	5146	.895404	.6890	.0031	81.9 2nd Borey V
16	4541	.826462	.6635	.0015	5.5 3rd English V
17	4023	.60345	.6502	.0132	65.6 1st Borey V
18	4676	.883008	.6386	.0010	20.0 2nd Borey V

AP00040425

9-10-74

4-12

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	Wt	Wt	Wt	Wt	Wt	Wt
	1.460732	.6760	.0001	<.5	Maint	Wt
	.7220470	.6526	.0001	<.5	Wt	Wt
	1.143040	.6451	.0001	1.8	Wt	Wt
	.932040	.5700	.0004	1.1	"	Wt
	.873450	.6446	.0024	8.2	Wt	Wt
	1.320640	.6474	.0033	7.5	Floor 1-2	Wt
	1.00280	.6298	.0023	6.6	Floor 3	Wt
	.808542	.6516	.0002	.7	"	Wt
	.58608	.6411	.0005	1.5	"	Wt
	.91440	.6641	.0004	1.3	"	Wt
	.88530	.6404	.0010	3.4	"	Wt
	1.396524	.6572	.0023	5.0	"	Wt
	.731052	.6054	.0012	4.6	"	Wt
	.60705	.6349	.0004	1.9	"	Wt
	.81519	.6434	.0015	5.5	"	Wt
	.771040	.6571	.0001	2.7	"	Wt
	.58848	.6510	.0009	4.6	"	Wt
	.8221	.6339	.0006	2.1	"	Wt

AP00040426

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AP00040430

9-6-74

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	Pump COUNT	Net Sample	Wt % gms	Vol ml	ppm Vol	Area	Name
1	4473	.814086	.6720	.0012	4.6	1st	Water ✓
2	4756	.898884	.6337	.0009	2.9	2nd	Water ✓
3	5453	.872480	.6649	.0088	30.9	2nd	Water main ✓
4	3957	.663120	.6701	.0016	7.5	2nd	Water ✓
5	6597	.989550	.6902	.0067	21.6	2nd	Water (Utility) ✓
6	6354	1.105596	.6767	.0010	2.8	3rd	Water ✓
7	4578	.833196	.6681	.0007	2.6	1st	Water ✓
8	6044	1.142316	.6843	.0008	2.2	2nd	Water ✓
9	7242	1.158720	.6478	.0051	13.1	2nd	Water ✓
10	6743	1.078880	.6661	.0004	1.1	3rd	Water ✓
11	5973	.89595	.6594	.0013	4.4	"	Water (Utility) ✓
12	8004	1.392696	.6496	.0004	0.9	"	Water ✓
13	5482	.997724	.6924	.0006	1.9	2nd	Water ✓
14	4659	.880551	.6617	.0019	6.6	2nd	Water ✓
15	4863	.778080	.6409	.0016	6.1	2nd	Water ✓
16	8385	1.526070	.6716	.0004	0.8	2nd	Water ✓
17	6008	1.135512	.6612	.0014	3.8	2nd	Water ✓
18	6771	1.08336	.6585	.0021	5.9	2nd	Water ✓

AP00040431

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PERSONAL VCL Samplers
9-16-74

8-4 Shift

Tube	Pump Count	LT Sample	WT CS ₂	VCL in CS ₂	PPM VCL	Area	Name
1	3896 ¹⁵²	.709672	.6288	.0010	4.1	3 rd floor	Marshall ✓
2	3150 ¹⁵⁹	.59535	.5996	.0007	3.2	"	Dunagan ✓
3	4373 ¹⁶⁰	.69968	.6364	.0005	2.1	"	Dunagan ✓
4	3712 ¹⁶⁹	.59392	.5171	.0028	11.2	2 nd	McIntyre ✓
5	6461 ¹³⁰	.96915	.6225	.0022	6.5	3 rd	Byars ✓
6	4847 ¹⁷¹	.850338	.6400	.0014	4.9	Dryer	Harper ✓
7	6109 ¹⁷⁴	1.062966	.5957	.0064	16.5	"	Harper ✓
8	3037 ¹⁶⁰	.48592	.6083	.0004	2.3	2 nd	McIntyre ✓
9	5995 ¹⁵¹	1.133055	.6268	.0013	3.3	3 rd	Dunigan ✓
10	5860 ¹⁵²	1.06652	.5385	.0302	70.3	2 nd	Leppin ✓
11	5031 ¹⁶⁰	.80496	.6405	.0018	6.6	3 rd	Dunigan ✓
12	6203 ¹⁵⁰	.93045	.6036	.0266	79.6	3 rd	Byars ✓
13	3387 ¹⁶⁰	.54192	.6551	.0025	13.9	Bagger	Smith ✓
14	2620 ¹⁶⁹	.4192	.6327	.0001	.7	Old Area	Cate ✓
15	3899 ¹⁶²	.709618	.6407	.0029	12.1	" "	Pearler ✓
16	3125 ¹⁵⁰	.46875	.6484	.0021	13.4	Bagger	Smith ✓
17	2702 ¹⁷⁴	.470148	.6301	.0018	11.1	" 400	Barnett ✓
18	3699 ¹⁵¹	.69911	.6611	.0016	7.0	" 400	Barnett ✓

AP00040432

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AP00040433

10-1-74
4-12 Shift PVC 229
or Compound

	Hit Comp	Hit CS ₂	Hit mCS ₂	PPH VCL	Area	Name
11	1.072162	.6551	.0001	<.5	Comp	Winters
4349	.821961	.6406	.0001	<.5	"	Edwards
7571	1.21136	.6225	.0001	<.5	"	Sack
3435	.546	.6620	.0001	.5	"	Winters
6100	.91500	.6326	.0001	<.5	"	Winters
5574	.969876	.6399	.0001	<.5	"	Henson
3223	.586586	.5792	.0018	8.2	3rd	Burnquist
4161	.786429	.5510	.0168	54.3	3rd	Holliman
6175	.9880	.6141	.0086	25.9	5	Taylor
4531	.72496	.6290	.0003	1.2	3rd	Winters
4300	.64500	.5312	.0022	8.3	3rd	Dip
5250	.91350	.6388	.0128	41.3	142	Williams
4341	.826462	.5559	.0013	4.0	3rd	Burnquist
3521	.665469	.6662	.0010	4.6	3rd	Holliman
6503	1.04048	.6048	.0013	3.5	5	Taylor
3849	.61584	.6604	.0008	4.0	3rd	Winters
5156	.7734	.6250	.0011	4.1	3	Dip
5619	.977706	.6547	.0114	35.2	142	Williams

Emulsion Plant 4-12 Shift 10-2-74

1	9409	1.637166	.6325	.0008	1.4	operator	Eagle
2	8002	1.456364	.6317	.0005	1.0	Roller	Driver
3	7607	1.437723	.5933	.0005	.9	Shelgun	Winters

AP00040435

10-1-74.
12-8 Shift

AP00040436

10-1-74
4-12 Shift PVC 229
+ Compound

	Sample	Hit Samp	Wt CS ₂	Vol in CS ₂	PPM vol	Area	Name
1	91	1.079162	.6551	.0001	<.5	Comp	Woods ✓
2	4349	.821961	.6406	.0001	<.5	"	Edwards ✓
3	7571	1.21136	.6225	.0001	<.5	"	Sack ✓
4	3435	.5496	.6620	.0001	.5	"	Woods ✓
5	6100	.91500	.6326	.0001	<.5	"	Walters ✓
6	5574	.969876	.6389	.0001	<.5	"	Henson ✓
7	3223	.586586	.5792	.0018	8.2	3rd	Bumgarner ✓
8	4161	.786429	.5510	.0168	54.3	3rd	Bullman ✓
9	6175	.9880	.6441	.0086	25.9	5	Taylor ✓
10	4531	.72496	.5290	.0003	1.2	2nd	Mathis ✓
11	4300	.64500	.5312	.0022	8.3	3rd	Dip ✓
12	5250	.91350	.6388	.0128	41.3	142	Williams ✓
13	4541	.826462	.5559	.0013	4.0	3rd	Bumgarner ✓
14	3521	.665469	.6662	.0010	4.6	3rd	Williams ✓
15	6503	1.04048	.6048	.0013	3.5	5	Taylor ✓
16	3849	.61584	.6604	.0008	4.0	3rd	Mathis ✓
17	5156	.7734	.6250	.0011	4.1	3	Dip ✓
18	5619	.977706	.6547	.0114	35.2	142	Williams ✓

Emulsion Plant 4-12 Shift 10-2-74

1	9409	1.637166	.6325	.0008	1.4	operator	Eagle
2	8002	1.456364	.6317	.0005	1.0	Ref. line	Driver
3	7607	1.437723	.5933	.0005	.9	Shotgun	Walters

AP00040437

1	1	6147	1.118754	.6340	.0002	.5	Util Comp 3rd	Hine ✓
2	2	3551	.671139	.6512	.0002	.9	Util Area	Bitter ✓
3	3	6904	1.10464	.6216	.0002	.5	5	Blackman ✓
4	4	3689	.59024	.6270	.0033	16.2	3rd	Coplen ✓
5	5	6139	.92085	.6329	.0005	1.6	2nd + Int	Castleton ✓
6	6	5133	.893142	.6481	.0025	8.4	2nd	Boren ✓
7	7	7963	1.449266	.6153	.0070	13.7	Util 3rd	Hine ✓
8	8	9359	1.768851	.6389	.0040	6.7	Util Area	Bitter ✓
9	9	6466	1.03456	.6180	.0002	.5	5	Blackman ✓
10	10	7707	1.23312	.6144	.0094	21.6	3rd	Coplen ✓
11	11	10689	1.60335	.5386	.0050	7.7	2nd	Castleton ✓
12	12	4208	.732192	.5968	.0019	7.1	2nd	Boren ✓
13	13	4319	.786058	.6292	.0009	3.3	PP	Maddox ✓
14	14	4037	.762993	.6334	.0004	1.5	PP	Wilford ✓
15	15	3119	.49904	.5683	.0001	.5	Comp	Faylmore ✓
16	16	3517	.56272	.6284	.0005	2.6	"	King ✓
17	17	6423	.96345	.6198	.0003	.9	"	Robbie ✓
18	18	4053	.705222	.6278	.0002	.8	"	Robbie ✓
19	19	4490	.817180	.6110	.0007	2.5	"	Maddox ✓
20	20	4380	.82782	.6168	.0004	1.4	"	Wilford ✓
21	21	2574	.41184	.6590	.0002	1.5	Comp	Barlow ✓
22	22	3400	.54400	.6559	.0003	1.7	Comp	Barlow ✓
Total Pump Count		Lit Samp	WT CS	VCL in CS	PPM VCL	Area	Name	
9-30-74 -								
8-4 shift								

AP00040438

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AP00040439

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Personal VC. Samples

8 → Light 9-23-74

Tube	Pump Count	Lit Samp	wt CS ₂	VCL in CS ₂	PPM VCL	Area	Name
1	3157	.514574	.6151	.0021	10.3	2nd	Thel
2	5170	.977130	.6304	.0022	6.5	2nd	Thel
3	3171	.50736	.6078	.0025	13.8	2nd	Thel
4	5291	.910560	.4415	.0020	4.5	2nd	Thel
5	3513	.976950	.6372	.0016	4.8	"	Thel
6	7413	1.289862	.6168	.0040	8.8	"	Thel
7	3946	.59190	.6230	.0048	23.2	"	Thel
8	2434	.389440	.5718	.0029	19.6	"	Thel
9	4489	.781086	.6980	.0094	38.7	2nd	Thel
10	5513	.82695	.6485	.0114	41.2	2nd	Thel
11	3638	.545700	.6203	.0004	2.1	2nd	Thel
12	3817	.721413	.6878	.0034	14.9	3rd	Thel
13	3401	.5917740	.6373	.0013	6.4	3rd	Thel
14	3165	.654885	.6764	.0023	10.9	3rd	Thel
15	3499	.55984	.6781	.0012	6.7	3rd	Thel
16	4933	.7399500	.6555	.0021	8.6	2nd	Thel
17	4136	.666176	.6431	.0040	17.9	2nd	Thel
18	3928	.714896	.6635	.0015	6.4	3rd	Thel

AP00040440

2224

4-12 Shift

9-24-74

Take	Pump Content	Net Sample	WACS ₂	VCHACS ₂	PPMVCL	Area	Name
1	6003	6092546	.5543	.0047	13.2	3rd	✓Egner
2	6553	1.238517	.6995	.0004	6.2	3rd	✓Capellen
3	6443	1.03988	.6632	.0058	17.2	5	✓Blackman
4	5360	.85760	.6508	.0054	18.9	1st 3rd	✓Vogel
5	7990	1.1985	.6780	.0042	10.9	2nd	✓Vogel
6	8664	1.50753	.6609	.0122	24.7	3rd	✓Vogel
7	4163	.757666	.5963	.0056	20.3	3rd	✓Egner
8	3897	.736533	.5950	.0007	2.6	3rd	✓Capellen
9	8672	1.38752	.6681	.0003	0.7	5	✓Blackman
10	6538	1.04608	.5623	.0034	8.4	142	✓Boren
11	7079	1.06185	.5390	.0064	17.8	2nd	✓Vogel
12	6756	1.17554	.6392	.0029	7.3	3rd	✓Vogel
13	3720	.577040	.6966	.0004	1.9	Camp	✓King
14	4120	.778680	.6646	.0003	1.2	"	✓Lund
15	4617	.73872	.6401	.0004	1.6	"	✓Lund
16	8604	1.37664	.6496	.0002	0.4	"	✓D. B. Boren
17	4290	.6435	.6346	.0001	0.4	"	✓Borden
18	5075	.88305	.6441	.0001	0.3	"	✓Barnett

AP00040441

10-1-74.
12~8 shift

AP00040442

1	6147	1.118254	.6340	.0002	.5	Wt. 1st	King
2	3551	.671139	.6512	.0002	.9	Wt. 1st	Battle
3	6904	1.10464	.6216	.0002	.5	5	Blackman
4	3689	.59024	.6270	.0033	16.2	3rd	Caplan
5	6139	.92085	.6329	.0005	1.6	2nd	Caplan
6	5133	.893142	.6481	.0025	8.4	2nd	Caplan
7	7963	1.44926	.6153	.0070	13.7	Wt. 3rd	Caplan
8	9359	1.768831	.6389	.0040	6.7	Wt. 3rd	Caplan
9	6466	1.03452	.6180	.0002	.5	5	Caplan
10	7707	1.23312	.6144	.0094	21.6	3rd	Caplan
11	10689	1.60335	.5386	.0050	7.7	2nd	Caplan
12	4208	.732152	.5968	.0019	7.1	2nd	Caplan
13	4319	.786058	.6292	.0009	3.3	PP	Caplan
14	4037	.762993	.6234	.0004	1.5	PP	Caplan
15	3119	.49904	.5683	.0001	.5	Comp	Caplan
16	3517	.52272	.6284	.0005	2.6	Comp	Caplan
17	6423	.96345	.6198	.0003	.9	"	Caplan
18	4053	.705222	.6278	.0002	.8	"	Caplan
19	4490	.817190	.6440	.0007	2.5	"	Caplan
20	4380	.82782	.6168	.0004	1.4	PP	Caplan
21	2574	.41184	.6590	.0002	1.5	Comp	Caplan
22	3400	.54450	.6559	.0003	.7	Comp	Caplan
Count							Count
1	6147	1.118254	.6340	.0002	.5	Wt. 1st	King
2	3551	.671139	.6512	.0002	.9	Wt. 1st	Battle
3	6904	1.10464	.6216	.0002	.5	5	Blackman
4	3689	.59024	.6270	.0033	16.2	3rd	Caplan
5	6139	.92085	.6329	.0005	1.6	2nd	Caplan
6	5133	.893142	.6481	.0025	8.4	2nd	Caplan
7	7963	1.44926	.6153	.0070	13.7	Wt. 3rd	Caplan
8	9359	1.768831	.6389	.0040	6.7	Wt. 3rd	Caplan
9	6466	1.03452	.6180	.0002	.5	5	Caplan
10	7707	1.23312	.6144	.0094	21.6	3rd	Caplan
11	10689	1.60335	.5386	.0050	7.7	2nd	Caplan
12	4208	.732152	.5968	.0019	7.1	2nd	Caplan
13	4319	.786058	.6292	.0009	3.3	PP	Caplan
14	4037	.762993	.6234	.0004	1.5	PP	Caplan
15	3119	.49904	.5683	.0001	.5	Comp	Caplan
16	3517	.52272	.6284	.0005	2.6	Comp	Caplan
17	6423	.96345	.6198	.0003	.9	"	Caplan
18	4053	.705222	.6278	.0002	.8	"	Caplan
19	4490	.817190	.6440	.0007	2.5	"	Caplan
20	4380	.82782	.6168	.0004	1.4	PP	Caplan
21	2574	.41184	.6590	.0002	1.5	Comp	Caplan
22	3400	.54450	.6559	.0003	.7	Comp	Caplan

VCL PERSONAL Sample 15
10-7-77 12-3-77

AP00040444

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VCL PERSONAL SAMPLERS

70-8-74

8→4 Shift

Tube	Pump Count	Lit Samp	WT CS ₂	VCL IN CS ₂	PPM VCL	Area	Name
1	4674	.0850668	.6168	.0011	3.8	Comp	Henson
2	4888	.923832	.6886	.0008	2.7	"	Edwards
3	4536	.74176	.4947	.0011	3.4	"	Sack
4	1327	.22192	.5540	.0002	2.3	"	Woods
5	5875	.88125	.6335	.0015	5.0	"	Waltman
6	4917	.855558	.6165	.0012	4.0	"	Waldrop
7	4142	.753844	.6759	.0021	8.1	3rd	Bumphaus
8	5391	1.018899	.6584	.0036	10.7	2nd	Bontinght
9	4919	.72304	.6414	.0036	14.7	3rd	Matheson
10	4097	—	—	—	4.8	"	Jullivan
11	6337	.95055	.6973	.0041	13.9	3rd	Timmon
12	5421	1.465254	.6492	.0009	1.8	5	Taylor
13	4290	.78078	.7068	.0021	8.8	3rd	Bumphaus
14	4430	.83727	.6496	.0015	5.4	3rd	Bontinght
15	5391	.862560	.6516	.0032	9.6	3rd	Matheson
16	4518	.72286	.6924	.0013	5.7	"	Colver
17	5042	.7563	.6585	.0036	14.4	"	Timmon
18	5219	.908106	.6798	.0005	1.7	5	Taylor

AP00040446

1	2	3	4	5	6	7
13	47309	9.619238	.5469	.00012	20.1 20.4	Emulsion Cont.
14	43554	8.233576	.6888	.0001	20.1 20.4	" Zher
15	40475	6.47600	.6697	.00006	20.1 20.2	PRC off spec
16	46111	7.37776	.6438	.00045	.18	PRC Ind. 10
17	41102	6.2253	.6986	.0001	20.1 20.5	PRC Ind. 10
18	53370	9.28638	.6868	.0033	1.1	PRC Ind. 10
19	19506	10.494228	.6878	.00088	.26	Pilot Plant
20	18910	10.57069	.6591	.00090	.27	Compound
21	21710	11.61485	.6886	.00057	.16	PRC + Emul
22	18871	9.888904	.6738	.0002	20.1 20.6	PRC Ind. #2 re

AP00040447

Pump Point	Lat Sample	W. CS2	Vol. CS2	APM Vol	Area	W-SW-7
1	11227	6P40126	.6547	.00002	20.1	PVA 7112 entrance
2	17484	9.773556	.6773	.00009	20.6	PVA Control
3	18445	10.421425	.6808	.00006	.2	PVC Hub
4	18899	10.110965	.6985	.00025	.8	PVA Baggins
5	17546	9.334472	.6456	.00008	.3	PVC 7112 entrance
6	17990	9.42676	.6582	.00006	.2	2nd Floor PVA
7	18007	8.737638	.6282	.00005	.2	Where West heading is
8	14492	8.408988	.6801	.00006	20.2	Old Police Building
9	54566	8.73056	.6809	.00005	20.2	Pill Box heading
10	18608	7.93728	.6579	.00003	.2	Beard Building
11	18975	7.04625	.6804	.00004	.2	Administration Building
12	61510	10.70274	.6777	.00005	20.1	7112 entrance
W-NW-7-10						
1	24217	13.028746	.6061	.00003	20.6	alkydol Control
2	24820	13.865995	.6941	.00006	20.1	alkydol where
3	10983	7.030395	.6043	.00011	20.1	Construction - Beard House
4	28094	15.03029	.6332	.00012	0.1	Water treatment tank
5	15531	8.262492	.6972	.00003	.1	Paint Shop Building
6	22863	11.950212	.6991	.00005	20.1	VAC Control
11	61133	11.126204	.6984	.00005	28.1	Utility Building
13	53183	10.051587	.6557	.00001	20.1	Trailer 20 min Shop
14	68852	11.06132	.6942	.00004	.16	Main Store room
15	62696	10.051587	.6530	.00005	20.1	Main Shop
16	51793	7.76895	.6686	.000035	20.1	Vac Building
17	78458	13.651692	.6553	.00005	20.1	Office main shop

AP00040448

AREA Sampling For VCL

10-14-74 Wind S-SW 7 mph

VCL Levels ppm

Area

<0.1	PVA Maintenance
0.2	PVC Lab.
<0.1	PVA Control house
0.8	PVA Baggins area
0.3	PVC Maint Shop
0.2	2nd floor PVA Plant
0.2	West Whse loading dock
<0.1	Old Binder Whse.
<0.1	PVA Bulk loading
0.2	Guard House
<0.1	Administration Building
<0.1	Main Laboratory

10-15-74 Wind N-NW - 7-10 mph

<0.1	aluminum control
<0.1	aluminum whse.
<0.1	Fence SE corner
<0.1	Water Treatment Co.
0.1	Paint Shop
<0.1	Vac Control House
<0.1	Utility control house
<0.1	Trailer at Main Shop
0.16	Main Storeroom
0.1	Main Shop

AP00040449

<0.1	Voc Unloading area
<0.1	Office Main Shop
<0.1	Emulsion Control Room
<0.1	Emulsion Whse.
<0.1	PVC offices
0.1	PVC Bulk loading area
1.1	PVC Bagging area
0.26	PVC Pilot Plant
0.27	Compound Plant (Roll mill area)
0.16	Road North of PVC Plant.
<0.1	Downwind from #2 treatment ponds.

AP00040450

AREA SAMPLING
10-16-74 W - SW - 3 mpt

ppm UCM

Area

SW Corner Fence	40.1
Vol TK Fence	40.1
PVA TK Fence	0.18
VAC TK Fence	40.1
N.W. Corner Fence	40.1
N.E. Corner Fence	40.1
Catalyst Material	40.1
Alkyd TK Fence	40.1
Pvc Bagging Area	1.3
Corrosion Area	1.5
(Took Left Spreader)	

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VCL PERSONAL SAMPLES
Pulled with OSHA Day Shift
10-24-74

	Wt Sample	Wt CS ₂	VCL in CS ₂	TSM VCL	Area	Name
9 ^{ms}	5000	.7400	.6770	.00125	5.4	2nd floor
10 ^{ms}	582	.7073	.6737	.0020	6.9	2nd floor
16 ^{ms}	5226	.655018	.6867	.00083	2.9	2nd floor
13 ^{ms}	5099	.655018	.6340	.00127	5.7	2nd floor
14 ^{ms}	577	.71332	.6321	.00168	6.2	2nd floor
15 ^{ms}	5020	.753	.6699	.0024	9.8	2nd floor
16 ^{ms}	5476	.952824	.6782	.0056	18.4	3rd floor
17 ^{ms}	4061	.74576	.7076	.005	2.2	2nd floor

AP00040452

240 VCL Personal Samplers 11/12/74 10-21-74

	Pump	Sample	VACS	VCL ACS	Time VCL	Area	Name
1	5112	1.530954	.6513	.0027	5.6	2nd	Boins
2	5120	1.68588	.6872	.0051	9.6	Maint	Boins
3	9661	1.54576	.6727	.0044	8.8	3rd	Harper
4	9735	1.3976	.6525	.0027	5.8	3rd	Lappin
5	4707	.70605	.6523	.0003	1.3	Dryer	Marshall
6	9492	1.651608	.6577	.0027	4.9	Utility	Levin
7	6599	.98985	.6742	.0009	2.8	Bagger	Boins
8	5340	.971880	.6894	.0008	2.6	"	Smith

8 → 4 Day Shift 10-21-74

1st	4477	.914814	.6671	.0098	37.0	3rd Utility	Levin
2nd	5497	.879520	.6882	.0005	1.8	3rd Maint	Boins
3rd	9559	1.80631	.7008	.0005	.9	Dryer	Boins
4th	5729	.91664	.6769	.0005	1.7	3rd	Castleberry
5th	6706	1.0059	.6476	.0010	2.0	3rd	May
6th	9033	1.571742	.6845	.0018	3.6	2nd	Lawson
7th	3201	.582582	.6527	.0001	3.6	Bagger	Boins
8th	3198	.51168	.6651	.0007	4.2	"	Timmons

4 → 12

1st	7587	1.580834	.6436	.00076	1.6	Dryer	Faulkner
2nd	4461	.543129	.6653	.0009	3.3	3rd	Butler Maint
3rd	5003	.80048	.6893	.00013	.5	3rd	Overly Utility
4th	5799	.92784	.6555	.0006	1.6	2nd	Castleberry
5th	7336	1.0004	.6555	.00049	1.3	2nd	English
6th	6174	1.074276	.6895	.00022	1.6	3rd	Harper
7th	9148	1.591752	.6393	.0008	1.5	Bagger	Beth
8th	5115	1.344735	.6809	.0011	2.6	Bagger	Boins

AP00040453

240 VCL Personal Samplers Mid into Shift 12→8 10-21-74

	Pumped	CS Sample	Wt CS2	VCL in CS2	PPM VCL	Area	Name
1	5412	1.930954	.6913	.0027	5.6	2nd	Sains
2	5920	1.68588	.6872	.0051	9.6	Maint	
3	9661	1.54576	.6727	.0044	8.8	3rd	Hopper
4	5735	1.3976	.6525	.0027	5.8	3rd	Lappin
5	4707	.70605	.6523	.0003	1.3	Dryer	Marshall
6	9492	1.651608	.6477	.0027	4.9	3rd	Grant
7	6599	.98985	.6742	.0009	2.8	Bagger	Simmons
8	5340	.971880	.6894	.0008	2.6	"	Smith

8→4 Day Shift 10-21-74

1st	4477	.914814	.6671	.0098	37.0	3rd Utility	Levin
2nd	5497	.979520	.6882	.0005	1.8	3rd Maint	Stall
3rd	9559	1.801631	.7008	.0005	.9	Dryer	Sains
4th	5729	.91664	.6769	.0005	1.7	3rd	Castleberry
5th	6706	1.0059	.6476	.0010	3.0	3rd	May
6th	9033	1.571742	.6845	.0018	3.6	2nd	Eaves
7th	3201	.582582	.6527	.0001	3.6	Bagger	Bogal
8th	3198	.51168	.6651	.0007	4.2	"	Timmons

4→12

1st	7587	1.380834	.6436	.00076	1.6	Dryer	Faulkner
2nd	4461	.543129	.6653	.0009	3.3	3rd	Butler Maint
3rd	5003	.80048	.6893	.00013	.5	3rd	Overy Utility
4th	5799	.92784	.6555	.0005	1.6	2nd	Castleberry
5th	7336	1.1004	.6555	.00049	1.3	2nd	English
6th	6174	1.074276	.6895	.00022	1.6	3rd	Hopper
7th	9148	1.591752	.6393	.0008	1.5	Bagger	Beth
8th	5115	1.144735	.6809	.0011	2.6	Bagger	Green

AP00040454

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VCL PERSONAL SAMPLES
 Pulled with OSHA Day Shift
 10-24-74

	LT Sample	WT CS	VCL CS	TOT VCL	Area	Name
9 ¹⁰	200	.6770	.00125	5.4	2 nd floor	2 nd floor
10 ¹⁰	202	.6773	.0020	5.9	3 rd floor	3 rd floor
11 ¹⁰	226	.6867	.00083	2.9	2 nd floor	2 nd floor
13 ¹¹	299	.65508	.00127	5.7	3 rd floor	3 rd floor
14 ¹¹	397	.6321	.00168	6.2	3 rd floor	3 rd floor
15 ¹¹	4020	.6699	.0024	9.5	3 rd floor	3 rd floor
16 ¹¹	5476	.6782	.0056	18.4	3 rd floor	3 rd floor
17 ¹¹	4061	.7076	.005	2.2	2 nd floor	2 nd floor

AP00040455

240 VCL Personal Samples 12 → 8 10-21-74

	Punch Card	Ct Sample	Wt CS ₂	VCL Wt CS ₂	Time VCL	Area	Name
1	5412	1.530954	.6913	.0027	5.6	2nd	Boins
2	5120	1.68588	.6872	.0051	9.6	Maint	Boins
3	9661	1.54576	.6727	.0044	8.8	3rd	Harper
4	5735	1.3976	.6525	.0027	5.8	3rd	Lappin
5	4707	.70605	.6523	.0003	1.3	Dryer	Marshall
6	9492	1.651608	.6477	.0027	4.9	1st	Marshall
7	6599	.98985	.6742	.0009	2.8	Bagger	Marshall
8	5340	.971880	.6894	.0008	2.6	"	Smith

8 → 4 Day Shift 10-21-74

1 st	4477	.814814	.6671	.0098	37.0	3rd Utility	Levin
2 nd	5497	.879520	.6882	.0005	1.8	3rd Maint	Hall
3 rd	9559	1.806651	.7008	.0005	.9	Dryer	Boins
4 th	5729	.91664	.6769	.0005	1.7	3rd	Castleberry
5 th	6706	1.0059	.6476	.0010	3.0	3rd	May
6 th	9033	1.571742	.6845	.0018	3.6	2nd	Cawey
7 th	3201	.582582	.6527	.0001	3.6	Bagger	Bond
8 th	3198	.51168	.6651	.0007	4.2	"	Timmons

4 → 12

1 st	7587	1.380837	.6436	.00076	1.6	Dryer	Faulkner
2 nd	4461	.543129	.6653	.0009	3.3	3rd	Butler Maint
3 rd	5003	.80048	.6893	.00013	.5	3rd	Overly Utility
4 th	5799	.92784	.6555	.0006	1.6	2nd	Castleberry
5 th	7336	1.1004	.6555	.00049	1.3	2nd	English
6 th	6174	1.074276	.6895	.00022	1.6	3rd	Harper
7 th	9148	1.591752	.6393	.0008	1.5	Bagger	Beth
8 th	5115	1.344735	.6809	.0011	2.6	Bagger	Green

AP00040456

VCL Area Samples					Wind SE 07				
Sample	WTCS2	YCLCS2	PRM VCL	Area	Wind SE 07	10-22-79	11-11-79	12-11-79	13-11-79
1	19.799106	.6794	.0030	.47	Emulsion 11.11.79				
2	17.11962	.6488	.0120	2.1	Between PVC + PVA				
3	19.1192	.6777	.00072	.12	PVA Maintenance Shop				
4	17.52312	.6846	.00029	.05	PVC 13.11				
5	17.34675	.6728	.0015	.27	PVA Central Avenue				
6	18.881088	.6681	.00002	.003	PVA Bulk Filling				
7	21.124978	.6428	.00089	.12	PVA TK Farm				
8	22.550619	—	—	—	Vac TK Farm				
9	22.448015	.6657	.00029	.04	2nd Road Old 33c PVA				
10	23.54963	.6944	.00049	.07	AIK TK Farm				
11	21.163492	.6603	.0013	.19	2nd Old 33c Bag PVA				
12	19.29168	.6257	.0005	.07	1st Old 33c Bag PVA				
10-23-74					Wind SW 3-5				
1	17.374172	.6674		2.001	Moan Brown				
2	17.42962	.6327		1.004	Moan Shop				
3	18.604885	.5959	.0001	.01	Old Woodhouse				
4	18.832	.6727	.00004	.006	Old Central				
5	15.934464	.6512	.00006	.01	1st Industrial				
6	15.221676	.6613	.0001	.02	Force Mill at Industrial				
7	17.931176	.6821	.00053	.09	Emulsion Road in Area				
8	14.077854	.7007	.00012	.28	Emulsion Central				
9	15.010586	.6545	.000177	.36	Emulsion Industrial				
10	3.2224	.7041		<1001	Between Industrial & Brown				
11	3.90135	.6726	.00044	.35	Green Shop				
12	4.966432	.6865	.00013	.08	PVC Mount Shop				

104

Century Readings @ Emulsion during 720-729

4-2 @ 100 4-3 @ 1070 4-4 @ 1500 4-5 @ 1500 4-6 @ 2000

In corner by south door -	27	60	22	45	31
1ft over manometer delay pump -	90	140	14	25	46
10ft from pump over drain -	150	35	210	14	16
Halfway between pump & E. fan -	60	21	12	15	14
At East fan -	35	30	18	16	17
At West fan -	60	45	12	11	21
Center of West wall -	200	300	210	30	34
1st level steps over pump -	70	450	210	22	28
2nd floor @ sample point -	45	90	210	18	19
3rd floor by reactor -	140	45	210	15	15
3rd floor @ top steps -	22	35	210	15	15

Area was being hosed down
during these readings.

AP00040458

80

3-5-74

Gas sample 1' above monomer delay
pump in Canister

1150 PPM UCL

Gas sample 10' away from pump

610 PPM UCL

3-6-74

Gas sample 10' from monomer delay
pump toward exhaust fan

76 PPM UCL

Near exhaust fan

141 PPM UCL

AP00040459

104

Century Readings @ Emulsion during 720-728

4-2 @ 150 4-3 @ 1070 4-4 @ 150 4-5 @ 150 4-6 @ 200

In corner by south door -	27	60	22	45	31
1st over monomer delay pump -	90	140	14	25	46
10ft from pump over drain -	150	35	410	14	16
Half way between pump & E. fan -	60	21	12	15	14
At East fan -	35	30	18	16	17
At West fan -	60	45	12	11	21
Center of West wall -	200	300	410	30	34
1st level steps over pump -	70	450	410	22	28
2nd floor @ sample point -	45	90	410	18	19
3rd floor by reactor -	140	45	410	15	15
3rd floor @ top steps -	22	35	410	15	15

Area was being hosed down
during these readings.

AP00040460

80

3-5-74 Gas sample 1' above monomer delay
pump in Emulsion

1150 PPM UCh

Gas sample 10' away from pump

610 PPM UCh

3-6-74 Gas sample 10' from monomer delay
pump toward exhaust fan

26 PPM UCl

Near exhaust fan

141 PPM UCl

AP00040461

Area Samples - 8th TW A

ppm VCm

	High	Low	Average	Std. Dev
PVCH Bagging area	1.4	0.17	0.51	0.2159

PVC Bagging area	2.34	0.16	1.10	0.95
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PVCH Sup. Building	0.37	<0.1	0.14	0.12
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12th Control Room	0.27	<0.1	0.10	0.13
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PVCH Maint Shop	0.13	<0.1	0.08	0.04
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Road 'D' North Road

Side of PVC PLANT	2.1	<0.1	0.65	0.56
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Emulsion Warehouse	0.36	<0.1	0.18	0.11
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Emulsion TK. Farm	0.50	<0.1	0.14	0.18
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Emulsion Control Room	0.28	<0.1	0.11	0.10
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AIRFLEX-3 REACTOR AREA

during A-228 RUN (Tank in Monomer Pump)	23.1	1.1	7.9	8.8
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PVC MAINT. Shop	<0.1	<0.1	<0.1	—
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PVC Pilot PLANT	0.42	<0.1	0.20	0.16
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PVC OFFICES	<0.1	<0.1	<0.1	—
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AP00040462

	High	Low	Average	Std. D
AREA 7 WAREHOUSE	<0.1	<0.1	<0.1	—
Compound PLANT	0.38	<0.1	0.13	0.16
Acetylenics Warehouse	<0.1	<0.1	<0.1	—
Acetylenics Control Room	<0.1	<0.1	<0.1	—
WASTE TREATMENT PLANT	<0.1	<0.1	<0.1	—
Main Maint Shop	<0.1	<0.1	<0.1	—
Utilities PLANT	<0.1	<0.1	<0.1	—
PAINT Shop	0.35	<0.1	0.15	0.
MAIN LABORATORY	<0.1	<0.1	<0.1	—
MAIN Storeroom	<0.1	<0.1	<0.1	—
Perimeter OF PLANT	0.26	<0.1	0.09	0.0

AP00040463

Personnel Samples
8 hr TWA

Compound Plant 12-6-74 2nd Shift

operator ppm vel

Clark 1.50

Brian 0.93

Turner 0.23

Draffey 1.73

Harold 1.30

PVC Plant 12-4-74 2nd Shift

operator area ppm vel

Sullivan 3rd floor 5.4

Taylor area - 5 40.1

Holler Maintenance 50.9

Loppin Dryer 4.8

Miller Baggers 2.8

May 2nd floor 4.5

AP00040464

Emulsion Plant During A-728 Run 12-7-74 2nd ship

operator	area	perm vel,
Daniel	warehouse	0.67
Edwards	Ripley - 3	0.12
Kennedy	Shotgun	<0.10
Driver	Rotaplane	<0.10
Hardin	Atmospheric	<0.10

AP00040465

VCL Area Samples

241

Wind SE @ 7

Area 10-22-74

		Wt Sample	Wt CS ₂	VCL CS ₂	PPM VCL	Area
						10-22-74
1	19.759906	.6794	.0030	.47	Emulsion TK Farm	
2	17.11962	.6488	.0120	2.1	Between PVC & PVA	
3	19.1192	.6777	.00072	.12	PVA Maintenance Shop	
4	17.52312	.6846	.00029	.05	PVC Lab	
5	17.34675	.6728	.0015	.27	PVA 2nd Floor House	
6	18.881088	.6681	.00002	.003	PVA 2nd Floor House	
7	21.724978	.6428	.00089	.12	PVA TK Farm	
8	22.550619	—	—	—	Vac TK Farm	
9	22.448015	.6657	.00029	.04	2nd Level Acid Dec PVA	
10	23.54963	.6994	.00049	.07	AIK TK Farm	
11	21.163492	.6603	.0013	.19	2nd Floor Snd Bldg PVA	
12	19.391668	.6257	.0005	.07	TK Farm	
10-23-74						
Wind S W 3-5						
1	17.374172	.6674	—	1.001	Main Storeroom	
2	17.42962	.6324	—	1.001	Main Shop	
3	18.604885	.5959	.0001	.01	Oil Warehouse	
4	18.832	.6727	.00004	.006	Oil Control	
5	15.934464	.6512	.00006	.01	Water Treatment Plant	
6	15.221676	.6613	.0001	.02	Fence North of Water Treat	
7	17.921176	.6821	.00053	.09	Emulsion Reactor Area	
8	14.077854	.7067	.0012	.28	Emulsion Control	
9	15.01094	.6545	.00177	.36	Emulsion Warehouse	
10	3.2224	.7041	—	1.001	Oil Control Room	
11	3.90135	.6726	.00044	.35	Paint Shop	
12	4.866432	.6565	.00013	.08	PVC Maint Shop	

AP00040466

12 → 8 Shift

10-28-74

Index	Pump Count	Lit Sample	WTCS ₂	VCLinCS ₂	PPM VCL	Area	Name
1	5689	1.0385398	.6436	.0007	2.2	2nd	Saunders
2	4494	.849366	.7183	.0051	19.9	3rd	Johnson
3	4785	.7650	.7187	.00046	2.0	3rd	Levin (Utility)
4	4135	.6616	.7114	.00039	1.9	3rd	Eaves
5	4610	.6915	.6912	.00073	3.4	3rd	Don Castleberry
6	5044	.877656	.6872	.00098	3.5	3rd	Reed (Maint)

8-4 Shift

10-28-74

7	5170	.648694	.6935	.00089	1.9	2nd	Paggin
8	4360	.82404	.6936	.00031	.9	3rd	Boren
9	6107	.97712	.6833	.00041	1.3	3rd	Caplan
10	5109	.81744	.6724	.00085	3.2	3rd	Thernton (Utility)
11	5430	.81450	.6803	.00173	6.7	3rd	Butler (Maint)
12	5732	.997368	.6678	.00037	1.1	3rd	Hawkins

1	4099	.746018	.6781	.0005	20.1	3rd	Timmons
2	3120	.58968	.6756	.00013	.7	3rd	Bumpha (Corr)
3	4744	.75904	.6985	.0075	31.8	3rd	Thomas
4	4326	.69216	.6935	.0078	36.0	3rd	Baugh
5	6356	.9534	.6691	.00012	.4	2nd	Tales (Maint)
6	6046	1.092004	.6898	.00023	.7	2nd	May

Pilot Plant

10-29-74

1	2734	1.473582	.6310	.0025	5.0	PP	Wilford
2	1846	1.031914	.6078	.0087	26.0	PP	Maloy

242

VCL PERSONAL SAMPLES
Pulled with OSHA Day Shift
10-24-74

7th	Pump amt	lit Sample	WT CSE	VCL in CSE	PM VCL	area	Name
9 ^{11:30}	4500	.7200	.6770	.00125	5.4	2nd floor	Dolan appt
10 ^{11:45}	5982	.7973	.6737	.0020	6.9	3rd floor	Don Castleberry
11 ^{12:15}	5226	.909324	.6867	.00083	2.9	3rd floor	Don Hall
12 ^{12:45}	3599	.655018	.6340	.00127	5.7	3rd floor	Robert Lewis
13 ^{1:15}	4897	.78352	.6321	.00168	6.2	3rd	Livey
14 ^{1:45}	5020	.753	.6699	.0024	9.8	3rd	Castleberry
15 ^{2:15}	5476	.952824	.6782	.0056	18.4	3rd	Hall
16 ^{2:45}	4661	.74576	.7076	.0005	2.2	2nd floor	Dennis Johnson

These samples were pulled while OSHA was sampling. The operator had two pumps on, one put on by OSHA, the other by APCI. The above analyses are from samples the carbon tubes in the APCI pumps. The APCI samples were taken under supervision of Joe Paul Ray McHenry & John Noubel.

Joe Paul Ray
McHenry

AP00040468

12 → 8 Shift

10-28-74

Tube	Pump Gross	Lit Sample	WTCSZ	VCLWCSZ	PPMVCL	Area	Name
1	5689	1.0385398	.6936	.0007	2.2	2nd	Lozier
2	4494	.849366	.7183	.0051	19.9	3rd	Johnson
3	4785	.7650	.7187	.00046	2.0	3rd	Levin (Utility)
4	4135	.6616	.7114	.00039	1.9	3rd	Eaves
5	4610	.6915	.6912	.00073	3.4	3rd	Don Castleberry
6	5044	.877656	.6872	.00098	3.5	3rd	Reed (Maint)

8-4 Shift

10-28-74

7	9170	1.48694	.6935	.00089	1.9	2nd	Paggin
8	4360	.82404	.6936	.00031	.9	3rd	Boren
9	6107	.97712	.6833	.00041	1.3	3rd	Copelan
10	5109	.81744	.6724	.00085	3.2	3rd	Thurston (Utility)
11	5430	.81450	.6803	.00173	6.7	3rd	Butler (Maint)
12	5732	.997368	.6678	.00037	1.1	3rd	Hawkins

1	4099	.746018	.6781	.0005	20.1	3rd	Timmons
2	3120	.58968	.6756	.00013	.7	3rd	Rumphus (Utility)
3	4744	.75904	.6985	.0075	31.8	2nd	Thomas
4	4326	.69216	.6935	.0078	36.0	3rd	Beaumont
5	6356	.9534	.6691	.00012	.4	2nd	Tales (Maint)
6	6046	1.092004	.6898	.00023	.7	2nd	May

Pilot Plant

10-29-74

1	2739	1.473582	.6310	.0025	5.0	PP	Wilford
2	1846	1.031914	.6678	.0087	26.0	PP	Maday

VCL Area Samples

10-29-74

245

Wind SE @ 12 MPH

Count	Lit Samp	Wt CS ₂	VCL CS ₂	PTMVCL	Area
1 26359	14.892835	.6940	.00194	.42	PVA Bagging
2 56766	35.71981	.6855	.0016	.14	PVC Bagging
3 14731	7.836892	.6837	.00022	.09	Compound ALL WIND AREA
4 52806	27.670844	.6980	.0017	.20	Warehouseman OK FOR LIST OPERATOR
5 154529	28.187978	.6876	.00005	.0005	Emul TK Farm
6 122494	23.151366	.6786	.00012	.02	Between PVC + Road N
7 164535	26.324	.7059		<.001	Emul Control
8 145549	23.76784	.6079	.00001	.001	Emul Warehouse
9 160711	24.10665	.6569		<.001	Paint Shop
10 155020	26.97348	.6837	.00055	.06	PVA Main Shop

Wind SE @ 7 MPH

10-30-74

1 120135	21.86457	.6749	.000006	.0005	Compound Blending Area
2 95900	18.70911	.6837	.00053	.09	PVA Sap Bldg
3 122875	19.660	.6613	.00078	.12	Main Shop
4 122816	19.65088	.5731	.00021	.03	Alk Control
5 119688	17.9532	.6886	.00004	.006	N.W. Fence
6 118519	20.62306	.6954	.000065	.010	Storage Yard

10-30-74

1 4309	2.257916	.6958	.00188	2.7	Wilford Pilot Plot
2 1331	23.984545	.6967	.00038	.05	Pilot Plot
3 1324	.693776	.6966	.0228	99.5	

AP00040470

VCL Area Samples

10-29-74

245

Wind SE @ 12 MPH

Count	LT Sample	WTCS ₂	VCLCS ₂	PPMVCL	Area
26359	14.892835	.6940	.00194	.42	PVA Bagging
26766	35.71981	.6855	.0016	.14	PVC Bagging
14731	7.836892	.6837	.00022	.09	Compound ROLL MATH OPERATOR
52806	27.670844	.6980	.0017	.20	Warehouseman
154579	28.187978	.6876	.00005	.0005	Emul TK Farm
122494	23.151366	.6786	.00012	.02	Between PVC + Road Mat
164535	26.324	.7059		<.001	Emul Control
15549	23.76784	.6079	.00001	.001	Emul Warehouse
160711	24.10665	.6569		<.001	Paint Shop
153020	26.97348	.6837	.00055	.06	PVA Main Shop

Wind SE @ 7 MPH

10-30-74

1	120135	21.86457	.6749	.000006	.0005	Compound Blending Area
2	93990	18.70911	.6837	.00053	.09	PVA Sap Bldg
3	122875	19.660	.6613	.00078	.12	Main Shop
4	122818	19.65088	.5731	.00021	.03	alk. Control
5	119688	17.9532	.6886	.00004	.006	N.W. Fence
6	118519	20.622306	.6954	.000065	.010	Storage Yard

10-30-74

4309	2.257916	.6958	.00188	2.7	Willard Pilot Pt
831	23.984585	.6967	.00038	.05	Pilot Pt
1324	.693776	.6958	.0228	99.5	

AP00040471

248

12→8 Shift 11-4-74

Turn	Pump Count	Hit Sample	Wt CS ₂	Vch in CS ₂	PPM Vch	Area Comp	Name
1	4477 ²¹	.214814	.6816		2.001	Mixed Comp	Barlow
2	4428 ⁵³	.536892	.6842	.0008	3.0	Roll Mill	William
3	4826 ¹¹	.77216	.6758	.00008	.02	Blend Room	King
4	4511 ¹¹³	.721760	.6915	.00004	.16	3rd	Papier
5	4855 ¹¹⁴	.72825	.6643	.0133	56.0	3rd	Bumpher (Mtl)
6	5290 ¹¹⁵	.92046	.6558	.00025	.8	3rd	Butler (Main)
7	7676 ⁸¹	.197032	.6770	.00037	.8	5	Blackman
8	4852 ⁵³	.917028	.6953	.0031	10.8	2nd floor	Boren
9	4501 ⁵²	.72016	.6815	.00005	.21	3rd	Castberry
10	4443 ⁶³	.839727	.6827	.0010	3.7	2nd	Hawkins

8→4 Shift 11-4-74

11	4236 ²¹	.770952	.6438	.0002	.8	3rd	Timmons
12	3401 ²³	.642759	.6820	.0016	7.8	3rd	Downing (Mtl)
13	4547 ²³	.72752	.7132	.0009	3.1	3rd	Boatright
14	5856 ²³	.93696	.6585	.0004	1.3	2nd	Man
15	8854 ²³	.13281	.6586	.0002	.5	5	Taylor
16	7806 ²³	.1358244	.6652	.0002	.4	all Areas	Mel's (Ma)
17	3663 ²¹	.666666	.6959	.00016	.8	3rd	Cato

4→12 Shift 11-4-74

19	7451 ²¹	.1356082	.7098	.0001	.2	3rd all	Devine
18	5122 ²³	.968058	.7313	.00226	7.9	3rd	Byars
20	8494 ²³	.135904	.6430	.00001	.02	2nd	Dunigan
21	8057 ²³	.125912	.7044	.00003	.07	5	Edgman
22	5638 ²⁴	.8457	.6966	.0051	19.4	3rd	Overby
24	6057 ²³	.1053918	.6998	.0006	1.8	2nd	Marshall
1	5440 ²⁴	.822	.6771	.0001	.4	3rd Cont	aburst
						10-1	14
1	3572 ²⁴	.201818	.6492	.0096	14.2	PP	Madore

AP00040472

Area Samples 11-5-74

	Ppm?	lit Sample	1/4 CS ₂	VCL in CS ₂	PPM VCL	Area
1	12159	22.512938	.6937	.00009	.01	PVC Shop
2	120708	22.813512	.6795	.00007	.01	SE Corner
3	161131	25.78096	.6635	.00033	.04	Binder College
4	135755	21.7368	.6700	.00018	.03	PVC Office
5	3345	.50175	.6780	.0024	15.0	PP operator
6	13598	21.366052	.6930	.00179	2.4	PP operator
7			Area Samples 11-6-74			
8	63400	35.4406	.7001	.00035	.03	Emul TK Farm
9	60409	34.131085	.6736	.0024	.22	P Plant
10	67841	36.294935	.6953	.00065	.06	New Cat. House
11	58119	30.919308	.6943	.00107	.11	Emul Warehouse
12	58736	30.77764	.7015	.0020	.21	Between PVC + Road

AP00040473

2498

Area Samples 11-5-74

Tube	Pump Count	Lit Sample	WT CS ₂	VOL CS ₂	PPM VOL	Area
1	162159	29.517938	.6937	.00009	.01	PVC Shop
2	120708	23.813812	.6795	.00007	.01	SE Corner
3	161131	25.78096	.6635	.00033	.04	Binder College
4	135955	21.7368	.6700	.00018	.03	PVC Office
5	3345	.50175	.6780	.0024	15.0	TP operator
6	13598	2.366052	.6930	.00179	2.4	TP operator
7	6400		Area Samples 11-6-74			
8	63400	35.4406	.7001	.00035	.03	Emul TK Farm
9	60409	34.131085	.6736	.0024	.22	P Plant
10	67841	36.294935	.6953	.00065	.06	New Cat. House
11	58119	30.919308	.6943	.00107	.11	Emul Warehouse
12	58736	30.777664	.7015	.0020	.21	Between PVC + Road
4-12 SHIFT 11-11-74						
1	5057	920374	.6860	.00021	.7	Camp Hall mid. Walton
2	4100	.7749	.6701	.00021	.8	Camp Refining Woods
3	5221	.83536	.6725	.00005	.9	Camp Refining Edwards
4	4380	.7008	.6725	.00024	1.0	3rd Tractor MAINT
5	4494	.6741	.6662	.0003	1.4	3rd Cabin
6	4118	.716532	.6872	.00038	1.7	3rd Planter
7	4423	.895985	.7054	.00144	5.2	3rd Sullivan
8	5372	1.015308	.6882	.0019	5.9	2nd Man
9	5541	.88656	.6849	.00026	.9	3rd Downing
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

AP00040474

8-2-74
11-11-74

Tube	Pump Current	Ref Sample	VOL CS ₂	VOL CS ₂	PPM VOL	Area	Name
1	6641 ⁹¹	1.208662	.6644	.00016	.4	Comp	Turner (Blender)
2	6865 ⁹³	1.297485	.6766	.00033	.8	Comp	Draffen (Blender)
3	3936 ⁹¹	.62976	.6805	.00002	.08	Comp	Woods (Roll Mill)
4	4359 ¹¹³	.69744	.6881	.0047	21.4	3rd	Wilson (Main)
5	7954 ¹¹⁷	1.1931	.6688	.0135	34.9	3rd	Cornell
6	4789 ¹¹⁵	.833286	.6811	.0110	41.5	2nd	Dunneigan
7	4404 ⁹⁷	.70464	.6382	.0049	20.5	3rd	Marshall
8	4118 ⁹¹	.65888	.6678	.0060	28.1	3rd	Hurst (Utility)
9	4333 ¹¹³	.69328	.6355	.0024	10.1	3rd	Overly

4-12 Shift 11-11-74

1	4367	.794794	.6684	.00018	.70	Comp	Bath (Roll Mill)
2	4771	.901719	.6892	.0022	7.8	2nd	Lavin
3	3878	.61568	.6730	.00001	.04	Comp	Williams (Blender)
4	4470	.7152	.6304	.00105	4.3	3rd	Miller
5	5466	.8199	.6754	.0017	6.5	3rd	Eaves
6	3085	.53679	.6992	.00006	.4	Comp	Moss (Boiler)
7	4979 ¹¹⁵	.866346	.7036	.00145	5.4	3rd	Reed (Main)
8	5690 ⁹⁷	.9104	.6782	.00012	.4	3rd	Lavin (Utility)
9	4086 ⁹¹	.743652	.6710	.00049	2.0	3rd	Cates

AP00040475

2493

AP00040476

Area Super Sample 11-19-74
Wind from SSE 5 mph

1	55720	29.3537	.7068	.00014	.02	7th inst 2
2	15717	24.26817	.6789	.00103	.13	PVA Maint
3	16600 ⁵⁷	26.63040	.6705	.00014	.02	alk Control
4	127730 ¹¹³	20.4368	.6847	.00014	.02	alk Warehouse
5	153253	22.98795	.6671	.00008	.01	Main Shop
6	145713	25.36886	.6781	.00007	.004	Boiler House
7	53921 ³	30.46537	.6992	.00155	.16	PIC Paving
8	61420 ⁴	32.8597	.6567	.0001	.01	Emulsion Was
9	55769 ⁵	29.66911	.6794	.0017	.18	PVA Paving
10	53971 ⁶	28.2808	.6652	.00021	.02	Between PVC & Res

AP00040477

258

12 → 8 Shift 11-18-74

Tube	Pump Count	Lit Sample	VHCS	VCHCS	PPM VCH	Area	Name
1	5745	1.04559	.6980	.00046	1.4	3rd	Crowell
2	5187	.980392	.6823	.00055	1.8	2nd	Harpe
3	6774	1.08384	.6932	.00013	.4	3rd	Davies
4	4663	.74608	.6731	.00006	.2	3rd	Cates
5	5479	.82185	.7040	.00071	2.8	3rd	Marsha
6	6028	1.048872	.6797	.00115	3.4	3rd	Corb (ll)

8 → 4 Shift 11-18-74

7	5418	.986076	.6773	.0018	5.7	3rd	Thomson
8	4290	.81081	.6537	.0080	29.7	3rd	Johnson
9	5315	.8504	.7847	.00055	2.3	3rd	Eves
10	5093	.81422	.5864	.0029	9.6	2nd	Hoins
11	5356	.8034	.6544	.00164	6.2	3rd	Pearle
12	4676	.813624	.6578	.00126	4.7	3rd	Lanham

4 → 12 Shift 11-18-74

13	5999	1.091818	.7064	.00123	3.7	2nd	Hewkin
14	4215	.796635	.6768	.00041	1.6	3rd	Butler
15	3665	.5864	.6978	.0001	.5	3rd	Castle
16	5227	.83632	.6674	.00037	1.4	3rd	Belt
17	6736	1.0104	.6674	.00103	3.1	1-2	Borer
18	5667	.986058	.6779	.00135	4.3	3rd	Coplen

AP00040478

262

12 → 8 11-25-74

Tube #	Pump Count	Hit Sample	Wt CS ₂	YChl SS ₂	ppm Vcl	Area	Name
1	4641	.844662	.6372	.0082	28.5	3 rd	
2	4238	.800982	.6707	.0108	41.7	3 rd	Levin (Util)
3	7012	1.12192	.6920	.0018	5.2	2 nd	Guttenberg
4	4356	.69696	.6605	.0020	8.7	3 rd	Reed (Maint)
6	5007	.75125	.6892	.0034	14.4	3 rd	Evers
7	5480	.95352	.6873	.0033	11.0	3 rd	Paulsen

8 → 4 11-25-74

7	7395	1.34589	.6595	.0010	2.3	3 rd	Lapierre
8	7491	1.415799	.6914	.0002	.5	Cont'd	Burtice
9	8763	1.40208	.6926	.00018	.4	2 nd	Hawkins
10	6014	.96224	.6763	.00025	.8	3 rd	Copelan
11	6868	1.0302	.6763	.00456	13.8	3 rd	Guttenberg
12	8319	1.447886	.6739	.00081	1.7	3 rd	Levin

4-12 Shift 11-25-74

1	5405	.98371	.7080	.0017	5.6	3 rd	Downing (Util)
2	4126	.779814	.6972	.0020	8.2	3 rd	Bortright
3	3252	.52032	.6805	.0001	.6	All Area	Thomas
4	5062	.80992	.6716	.00057	2.2	18 3 rd	Mallin (Main)
5	5907	.88605	.7226	.0022	8.3	2 nd	McDonald
6	5617	.977358	.6817	.00127	4.1	3 rd	Culver

AP00040479

11-26-74

Wind from E - 2 mph,

area Samp.

1	Port Bagging	1.4
2	Doc	1.6
3	Port say 2nd floor	.12
4	Port Maint	20.1
5	Road D	24.7
6	Emul. Warehouse	.24
7	" TK. Farm	20.1
8	alk Warehouse	20.1
9	Waste treatment Lab	20.1
10	Compound by fuel Road	20.1

AP00040480

8-7-4 2nd shift
1/11-74

Tube	Pump Count	Pit Sample	VH CS ₂	VCL CS ₂	TPM VCL	Area	Name
1	6641 ³¹	1.208662	.6644	.00016	.4	Comp	Turner (Blind)
2	6865 ³¹	1.297485	.6766	.00033	.8	Comp	Droffen (Blind)
3	2936 ³¹	.62976	.6805	.00002	.08	Comp	Woods (Roll M)
4	4359 ¹¹³	.69744	.6881	.0047	21.4	3rd	Wilson (Main)
5	7954 ¹¹	1.1931	.6688	.0135	34.9	3rd	Crowell
6	4789 ¹¹⁵	.833286	.6811	.0110	41.5	2nd	Dunsmuir
7	4404 ⁵⁷	.70464	.6382	.0049	20.5	3rd	Marshall
8	4118 ¹¹⁷	.65888	.6678	.0060	28.1	3rd	Hurst (Utah)
9	4333 ¹¹³	.69328	.6355	.0024	10.1	3rd	Overly

4-12 Shift 1/11-74

1	4367	.794794	.6684	.00018	.70	Comp	Beth (Roll M)
2	4771	.901719	.6892	.0022	7.8	2nd	Loefer
3	3878	.61568	.6730	.00001	.04	Comp	Williams (Blending)
4	4470	.7152	.6304	.00105	4.3	3rd	Miller
5	5466	.8199	.6754	.0017	6.5	3rd	Eaves
6	3085	.53679	.6992	.00006	.4	Comp	Moss (Cooking)
7	4979 ¹¹⁴	.866346	.7036	.00145	5.4	3rd	Reed (Main)
8	5690 ⁴⁷	.9104	.6782	.00012	.4	3rd	Lavin (Utah)
9	4086 ³¹	.743652	.6710	.00048	2.0	3rd	Cates

AP00040481

270

Midnite (12-8) Shift 12-3-74

Tube	Pump count	Pit Sample	WTCS ₂	VChnCS ₂	PPMVCL	Area	Name
1	4563	.830466	.6243	.00004	.12	Comp Camp	Clark
2	4664	.881446	.6576	.0005	1.7	" "	Wynn
3	3365	.5384	.6745	.0001	.6	" "	Kenny
4	2861	.45776	.6190	.00012	.7	" "	Faulkner
7	4136	.752752	.7601	.00118	5.5	3rd	Thomson
8	4059	.767151	.6254	.00136	5.1	2nd	Boren
9	4878	.7317	.6804	.00086	3.7	3rd	Castleberry
10	3719	.647106	.6717	.00027	1.3	Roll mill Camp	Henson
11	6922	1.10752	.6595	.0002	.5	Captive House	Butler (Main)
12	5959	.93344	.6966	.00043	1.4	A 5	Blackmon
13	4329	.753246	.6902	.00216	9.1	3rd	Fappin
14	4838	.880516	.6775	.00166	5.9	Dryer	Faulkner
15	4606	.870534	.6903	.00084	3.1	Bagger	Heer
16	5542	.88672	.6782	.00004	.13	"	Parrish

Day Shift (8-4)

12-3-74

1	5353	1.010446	.6671	.0168	5.1	3rd	Castleberry
2	5066	.957474	.6522	.0054	48.4	3rd	Boatright
3	5744	.91904	.6667	.0031	10.4	3rd	Norwood (Main)
4	6327	1.01232	.6125	.0280	78.1	2nd	Mary
5	5319	.7977	.6694	.0110	42.6	3rd	Mathis (Main)
6	8022	1.395824	.6662	.00055	1.2	A 5	Dug Taylor
19	6499	1.182814	.6597	.0002	.5	camp	Woods
20	7350	1.38915	.6535	.00012	.3	"	Edwards
21	3925	.628	.6711	.00007	.3	Roll mill Camp	Henson
22	3777	.60432	.6828	.00076	3.9	Bagger	Bumpkin
23	5316	.7977	.6776	.00052	2.0	Dryer	Timmer
24	4101	.71574	.6851	.00038	1.7	Bagger	Heer
17	4927	.866272	.6618	.00021	.7	PP	Maddox

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Midnite (12-8) Shift 12-3-74

Tub	Pump count	Pt Sample	Wt CS ₂	VCH in CS ₂	PPM VCL	Area	Name
1	4563 ⁸¹	.830466	.6243	.00004	.12	Comp Chang	Clark
2	4164 ⁸¹	.881496	.6576	.0005	1.7	" "	Dynon
3	3365 ⁸¹	.5384	.6745	.0001	.6	" "	Kenny
4	2861 ⁸¹	.45776	.6190	.00012	.7	" "	Faulkner
7	4136 ⁸¹	.752752	.7601	.00118	5.5	3rd	Thomson
8	4059 ⁸¹	.767151	.6294	.00136	5.1	2nd	Boren
9	4878 ⁸¹	.7317	.6804	.00086	3.7	3rd	Castleberry
10	3719 ⁸¹	.647106	.6717	.00027	1.3	Roll mill comp	Henson
11	6922 ⁸¹	1.10792	.6595	.0002	.5	Control Room	Butter (Main)
12	5959 ⁸¹	.95344	.6966	.00043	1.4	A 5	Blackmon
13	4329 ⁸¹	.753246	.6902	.00216	9.1	3rd	Pappin
14	4825 ⁸¹	.880516	.6775	.00166	5.9	Dryer	Faulkner
15	4606 ⁸¹	.870534	.6903	.00084	3.1	Bagger	Heer
16	5542 ⁸¹	.88672	.6782	.00004	.13	"	Dorsett

Day Shift (3-4)

12-3-74

1	5553 ⁸¹	1.010646	.6671	.0168	51.1	3rd	Castleberry
2	5066 ⁸¹	.957474	.6522	.0054	48.4	3rd	Boatright
3	5744 ⁸¹	.91904	.6667	.0031	10.4	3rd	Norman (Wtl)
4	6327 ⁸¹	1.01232	.6125	.0280	78.1	2nd	Mary
5	5319 ⁸¹	.7977	.6694	.0110	42.6	3rd	Mather (Main)
6	8022 ⁸¹	1.395828	.6662	.00055	1.2	A 5	Dug Taylor
19	6499 ⁸¹	1.182818	.6597	.0002	.5	comp	Woods
20	7350 ⁸¹	1.39915	.6535	.00012	.3	"	Edwards
21	3925 ⁸¹	.628	.6711	.00007	.3	Roll mill comp	Henson
22	3777 ⁸¹	.60432	.6828	.00076	3.9	Bagger	Bumpsh
23	5316 ⁸¹	.7977	.6776	.00052	2.0	Dryer	Timmer
24	4101 ⁸¹	.713574	.6851	.00038	1.7	Bagger	Heer
17	4942 ⁸¹	.866272	.6618	.00021	.7	PP	Maddox

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