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Legend:

Sample Stations whereas median or average counts are presently above maximum allowable concentration.

X Dust Stations above m.a.c.

X Vapor Stations above m.a.c.

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	Station Number	Former GPKD Sta. No.	Present Status	No. of Counts Taken	Particle Count Range		Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg
PACKINGS									
Large Plastic Mixer	*20-B Vapor		Prelim.	3	2000 PPM - 30% Expl.		*A 2500 PPM	Toluol	
Plastic Room Extruder	*21-B Vapor		"	4	200 PPM - 300 PPM		*A 250 PPM	Toluol	
At the Ventilated Table	.22-B Vapor		"	3	Neg. - 100 PPM		.A 50 PPM	Methyl Ethyl Ketone	

Asterisk - Stations requiring control.
Preliminary - Study to identify problem areas.
Evaluation - Study pending completion of corrective action.
Follow Up - Study subsequent to completion of corrective action.

Audit - Periodic study to check control.
Med./Avg. - Median or Average - whichever is higher.
Neg. - Negligible.
L.T. - Less than.
Expl. - Explosive.

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Summary of Atmospheric Hygiene Studies - Manville Plant

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Location	Dec., 1958 - thru - June, 1959 *No. of Sample Stations	*No. of Counts Taken	*No. of Counts Analyzed by J-M	June, 1957 - thru - Dec., 1958 No. of Sample Stations	No. of Counts Taken	No. of Counts Analyzed by J-M
Industrial Insulations						
Pipe Covering	31	88	88	28	74	49
Thermobestos	49	151	132	98	262	110
Thermoflex	5	15	15	-	-	-
Refractory Felt	7	21	21	14	34	-
Finderne Warehouse	9	26	26	-	-	-
Min K	12	36	36	-	-	-
Total	113	337	318	140	370	159
Pipe Plant						
Transite Pipe	75	223	223	73	180	4
Packings & Friction Materials						
Textiles	96	300	300	210	615	285
Packing	3	10	10	31	88	43
Friction Materials	11	55	52	51	137	74
Moulded Packings	11	90	90	18	48	48
Rubber	43	205	205	33	107	78
Total	164	660	657	343	995	528
Building Products						
Paper Mill	10	31	31	-	-	-
Rock Wool	23	69	69	-	-	-
Floor Tile	16	48	48	10	30	30
Flexboard	20	65	65	9	9	-
Asphalt Roofing	42	131	131	-	-	-
Asphalt & Pref.	4	12	12	16	51	42
Rigid Shingles & Corr. Tran.	56	167	145	58	143	102
Plan. & Sched. (F1 & F2)	6	18	18	-	-	-
Total	177	541	519	93	233	174
E. & R.						
Salvage	1	3	3	-	-	-
MANVILLE PLANT TOTAL	530	1764	1720	649	1778	**865

NOTE: *Counts also include Dust Collectors-In Plant Air ...urn Stations. (Report of April 1, 1959.)
**Atmospheric Hygiene Sample analysis by our J-M Industrial Hygiene Laboratory was started July 1, 1958.

C. L. Sheckler

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Atmospheric Hygiene Studies
Dec. 1958 -thru- June 1959
INDUSTRIAL INSULATIONS PLANT

PIPE COVERING	Station Number	Former GPID Sta.No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Stacking of Pallets	*S 6 C		Eval.	2	15.57 - 20.62	*A 18.10	0.63 - 0.69	A 0.66
Bandsaw in Firefelt Dept.	S20 "		Prelim.	3	1.53 - 2.15	A 1.76	0.14 - 0.27	A 0.20
#1 Cameron Slitter	S21 "		"	3	0.23 - 0.67	A 0.43	0.00 - 0.05	A 0.02
Niagrite Table	S23 "		"	3	0.52 - 1.05	M 0.93	0.02 - 0.04	A 0.03
Perlite Expander	S24 "		"	3	1.53 - 3.49	A 2.39	Not Asbestos	
Expander Cyclone	S25 "		"	3	5.18 - 9.94	A 7.30	Not Asbestos	
Attrition Mill	*S26 "		"	3	5.58 - 35.08	*A 16.64	1.07 - 5.23	*A 2.67
Amosite Blanket Machine	S27 "		"	2	0.57 - 0.61	A 0.59	0.10 - 0.11	A 0.11
#20 Pipe Winding Machine	S28 "		"	2	0.35 - 0.41	A 0.38	0.03 - 0.04	M .04
Finishing Dept. Dust Collector	*S29 "		"	3	100.97 - 118.03	*M 116.93	3.11 - 3.77	*M 3.45
Underneath Cyclone in Fin. Dept.	*S30 "		"	3	53.37 - 66.76	*M 62.52	1.42 - 1.46	*M 1.46
Control Panel for Fibrocel Machine	S31 "		"	3	0.24 - 0.38	M 0.35	Not Asbestos	
Resin Tank	S32 "		"	3	0.68 - 0.92	A 0.78	Not Asbestos	
Celinite Machine	S33 "		"	3	2.14 - 3.00	A 2.51	0.07 - 0.10	M 0.09
Vapor Barrier Machine	S34 "		"	3	0.23 - 0.40	M 0.39	Not Asbestos	
Vapor Barrier Machine	S35 "		"	3	0.14 - 0.29	A 0.21	Not Asbestos	
#1 Bandsaw	S36 "		"	3	0.26 - 0.35	M 0.34	Not Asbestos	
Carton Sealing Machine	S37 "		"	3	0.26 - 0.31	M 0.30	0.02 - 0.04	A 0.03
Pipe Winding Dust Collector	*S38 "		"	1	9.00 - -	*A 9.00	0.60 - -	*A 0.60
Sweeping the Floor	S39 "		"	3	1.46 - 2.93	M 2.41	0.00 - 0.03	A 0.01
Carton Sealing Machine	S40 "		"	3	0.44 - 0.60	A 0.52	Not Asbestos	
#3 Comb Saw	S41 "		"	3	0.68 - 1.67	M 1.30	Not Asbestos	
Small Table Saw	S42 "		"	3	2.32 - 2.66	A 2.48	Not Asbestos	
THERMOFLEX								
Betw. 2 Large Packaging Tables	S100 "		"	3	0.19 - 0.37	M 0.32	Not Asbestos	
In Front of Felt Storage Area	S101 "		"	3	0.31 - 0.36	M 0.34	Not Asbestos	
Opposite #2 Door on East Side	S102 "		"	3	0.26 - 0.44	M 0.41	Not Asbestos	
Opposite #2 Door on West Side	S103 "		"	3	0.24 - 0.37	A 0.30	Not Asbestos	
Opposite Office in N.W. Corner	S104 "		"	3	0.26 - 0.37	M 0.35	Not Asbestos	
MIN K								
#4 Press	S105 "		"	2	0.70 - 1.00	A 0.85	0.00 - 0.00	A 0.00
Valt Saw	*S106 "		"	3	3.66 - 8.63	*M 8.53	0.30 - 0.54	A 0.38
ing Platform	*S107 "		"	5	13.53 - 115.10	*A 74.59	0.00 - 4.14	*A 1.62
Self Sustaining Mold	S108 "		"	3	0.96 - 2.21	M 2.01	0.00 - 0.00	A 0.0
#4 Press	S109 "		"	2	3.35 3.96	A 3.66	0.11 - 0.13	A 0..

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MIX K (Cont.)	Station Number	Former QPKD Sta.No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Inspection Table	*S110 C		Prelim.	1	9.14 - -	*A 9.14	0.21 - -	A 0.21
Sander	*S111 "		"	3	3.71 - 5.97	*M 5.65	0.18 - 0.73	M 0.68
Gen. Fl. Sample nr. #1 Press	S112 "		"	3	0.23 - 0.95	M 0.76	0.00 - 0.03	A 0.01
G.F.S. 15' E. of #4 Press	S113 "		"	3	0.58 - 1.74	A 1.13	0.00 - 0.07	A 0.03
De Walt Saw	*S114 "		"	3	5.36 - 8.51	*A 6.45	0.08 - 0.14	A 0.11
Mixer	*S115 "		"	3	20.87 - 26.57	*M 26.16	Not Asbestos	
Underneath Mixer	*S116 "		"	5	35.48 - 117.16	*A 75.90	2.03 - 2.90	*A 2.47
FINISHED WAREHOUSE								
Inside R.R. Car of Perlite	S 1 FW		"	3	7.74 - 29.97	A 17.99	Not Asbestos	
Inside Truck of Fibrocel	S 2 "		"	3	1.42 - 2.92	A 2.10	Not Asbestos	
Inside R.R. Car of Magnesia	*S 3 "		"	3	14.10 - 17.58	*M 16.26	0.18 - 0.79	M 0.36
Inside Boxcar unloading Cement	S 4 "		"	3	3.85 - 4.93	A 4.33	Not Asbestos	
Odds Packaging Room	S 5 "		"	3	0.49 - 0.69	A 0.59	Not Asbestos	
Inside R.R. Car of Thermobestos	S 6 "		"	2	1.96 - 3.78	A 2.87	0.04 - 0.13	A 0.06
Inside Truck of Fibre Bags	S 7 "		"	3	2.79 - 6.53	A 4.32	0.20 - 0.29	M 0.25
Inside Truck of Magnesia	*S 8 "		"	3	12.87 - 20.96	*M 17.67	0.23 - 0.87	A 0.55
Inside Boxcar of 352-7M Asbestos	*S 9 "		"	3	3.87 - 7.43	*A 5.30	0.14 - 0.36	A 0.25
THERMOBESTOS								
Block Packing Conveyor	*S 1 E		Follow-up	3	5.10 - 9.53	*M 8.20	0.25 - 0.68	A 0.42
30' from Block Packing Conveyor	S 2 "		" "	3	2.57 - 4.35	A 3.26	0.11 - 0.20	A 0.15
#2 Twin Leg Trimmer (Feed-In)	*S 3 "		" "	3	5.94 - 6.97	*A 6.41	0.28 - 0.54	A 0.44
#2 Twin Leg Trimmer (Take-off)	*S 4 "		" "	3	30.73 - 33.49	*A 32.08	0.96 - 1.04	*A 1.00
#2 T.L. Trimmer Starch Conveyor	S 5 "		" "	1	2.38 - -	A 2.38	0.06 - -	A 0.06
#1 Single Leg Trimmer (Feed-In)	S 6 "		" "	3	3.67 - 5.07	A 4.36	0.17 - 0.28	M 0.25
#1 S.L. Trimmer Starch Conveyor	*S 8 "		" "	3	22.21 - 24.77	*M 23.92	0.66 - 1.00	A 0.82
#4 S.L. Trimmer (Feed-In)	*S 9 "		" "	3	4.63 - 5.82	*A 5.16	0.22 - 0.35	M 0.30
#4 S.L. Trimmer (Take-Off)	*S 10 "		" "	3	7.38 - 11.39	*A 9.29	0.21 - 0.39	A 0.29
#4 S.L. Trimmer Starch Conveyor	*S 11 "		" "	3	4.25 - 7.28	*M 6.36	0.07 - 0.17	A 0.12
#2 Yates V-36 Bandsaw	*S 12 "		" "	3	5.19 - 8.94	*A 6.84	0.17 - 0.38	A 0.29
#1 Bandsaw	*S 13 "		Eval.	3	7.60 - 12.35	*A 9.82	0.40 - 0.50	M 0.46
#1 Bandsaw	*S 13 "		Follow-up	3	9.66 - 18.79	*A 13.69	0.44 - 1.00	A 0.68
#3 Do-All Bandsaw	*S 14 "		Eval.	6	1.19 - 64.12	*A 24.56	0.04 - 1.04	A 0.45
#6 Door at West Side	*S 15 "		"	3	11.00 - 22.64	*M 18.59	0.02 - 0.87	M 0.75
Compressed Airline in Fin. Dept.	*S 17 "		"	2	15.28 - 21.00	*A 18.14	0.08 - 0.28	A 0.18
Midway along #1 S.L. Trim. Convey.	*S 18 "		"	3	6.25 - 17.86	*A 11.85	0.35 - 0.84	A 0.59
Walker-Turner Drill Press	*S 19 "		Follow-up	3	5.63 - 8.81	*M 7.30	0.04 - 0.24	A 0.13
Carton Sealer	*S 20 "		up	3	10.35 - 14.60	*A 12.26	0.50 - 0.90	A 0.69
Grooving Machine	S 22 "		"	3	1.80 - 4.10	A 2.73	0.00 - 0.08	C.08
15' N. of Staircase in Basement	S 23 "		"	3	1.20 - 2.50	A 1.69	0.05 - 0.09	0.06

Cont.

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THERMOBESTOS (Cont.)	Station Number	Former QPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Thermobestos Cyclone Bagger	*S 24 E		Eval.	2	2.61 - 7.39	*A 5.00	0.08 - 0.31	A 0.20
Jeffrey Hammer Mill	*S 25 "		"	3	5.69 - 6.19	*M 6.02	0.33 - 0.46	M 0.43
Jeffrey Hammer Mill	*S 25 "		Follow-up	3	10.76 - 20.26	*M 18.00	0.29 - 1.00	M 0.75
Scrap Chute of #2 T.L. Trimmer	*S 26 "		Eval.	3	3.20 - 8.90	*A 5.50	0.07 - 0.20	A 0.12
Scrap Chute of #1 S.L. Trimmer	*S 27 "		"	3	3.10 - 14.00	*M 13.00	0.05 - 0.30	M 0.20
Scrap Chute of #4 S.L. Trimmer	*S 28 "		"	3	10.00 - 25.00	*M 22.00	0.30 - 1.10	A 0.67
Bramwell Feeder (2nd Floor)	S 29 "		"	3	1.03 - 2.14	A 1.46	0.16 - 0.24	A 0.19
Bramwell Feeder (2nd Floor)	S 29 "		Follow-up	2	0.90 - 1.67	A 1.29	0.17 - 0.29	A 0.23
Inside of Lime Boxcar	S 30 "		Eval.	3	9.04 - 20.76	M 18.64	Not Asbestos	
Inside of Celite Boxcar	*S 32 "		"	3	25.98 - 33.90	*M 33.80	Not Asbestos	
Pre-Mix Area	*S 35 "		"	3	7.67 - 10.35	*A 9.61	0.27 - 0.68	A 0.46
#1 Pre-Mix Hopper	S 40 "		Follow-up	3	1.15 - 2.44	A 1.62	0.03 - 0.10	A .06
#2 Pre-Mix Hopper	S 41 "		" "	3	1.21 - 1.30	M 1.29	0.04 - 0.10	A ..06
Transfer of Thermo to Carts	*S 42 "		Eval.	3	10.25 - 10.92	*M 10.77	0.36 - 0.46	A 0.41
Loading Gate	*S 46 "		"	3	3.26 - 8.11	*M 7.79	0.20 - 0.59	M 0.45
Export Packing area in Basement	*S 48 "		Prelim.	3	10.00 - 15.00	*A 12.05	0.30 - 0.51	A 0.40
Adhesive Mixing Tank	S 49 "		"	3	22.23 - 43.00	A 29.28	Not Asbestos	
Inside Truck at W. Loading Dock	*S 53 "		Eval.	3	8.49 - 12.02	*M 10.88	0.28 - 0.50	A 0.38
Inside Boxcar	*S 55 "		Prelim.	3	0.48 - 20.09	*A 9.08	0.00 - 0.63	A 0.35
Bramwell Feeder on 2nd Floor	S 58 "		"	3	0.57 - 0.87	M 0.83	0.06 - 0.17	A 0.11
Clothes Blow-off Booth	S 59 "		"	3	0.52 - 1.12	A 0.72	0.00 - 0.08	A 0.03
Clothes Blow-off Booth	S 60 "		"	3	1.79 - 3.04	A 2.22	0.00 - 0.21	M 0.11
Manley Press	*S 61 "		"	3	5.82 - 9.34	*A 7.24	0.25 - 0.70	A 0.41
REFRACTORY FELT								
Mixer on 2nd Floor	*S 4 RF		Eval.	3	5.19 - 206.35	*A 98.74	Not Asbestos	

Asterisk - Stations requiring control.
Preliminary - Study to identify problem areas.
Evaluation - Study pending completion of corrective action.
Follow Up - Study subsequent to completion of corrective action.
Audit - Periodic study to check control.
Med./Avg. - Median or Average - whichever is higher.

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Atmospheric Hygiene Studies
Dec. 1958 -thru- June 1959
PIPE PLANT

TRANSITE PIPE	Station Number	Former GPED Sta.No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
#7844 Monolithic Lathe	S 1 I		Eval.	3	0.84 - 1.72	M 1.30	0.01 - 0.03	A 0.02
#7912 Monolithic Lathe	S 2 "		"	3	2.06 - 2.78	M 2.75	0.08 - 0.14	A 0.10
#7864 Lathe	S 3 "		"	3	1.39 - 2.15	M 2.07	0.01 - 0.05	A 0.02
#7904 Universal Lathe	S 4 "		"	3	1.17 - 1.34	A 1.23	0.02 - 0.06	A 0.04
#7841 Coupling Cut-off Machine	S 5 "		"	3	0.72 - 0.98	A 0.82	0.02 - 0.04	A 0.03
#7874 Fittings Lathe	S 6 "		"	3	0.68 - 0.88	M 0.82	0.03 - 0.06	A 0.04
#7866 Lathe	S 7 "		"	3	0.68 - 1.64	A 1.10	0.00 - 0.05	A 0.02
#7868 Specialty Lathe	S 8 "		"	3	1.03 - 1.24	A 1.11	0.01 - 0.03	A 02
#7898 Taper Coupling Lathe	S10 "		"	3	0.65 - 0.74	M 0.73	0.01 - 0.04	M 0.03
#7843 Monolithic Saw	S11 "		"	3	0.50 - 1.44	A 0.87	0.03 - 0.04	M 0.03
#7934 #2 Universal Lathe	S14 "		Prelim.	3	0.56 - 2.59	A 1.36	0.00 - 0.08	A 0.03
#7847 Swing Saw	S15 "		Eval.	3	1.40 - 2.03	M 1.95	0.00 - 0.04	M 0.04
#7869 60" Boring Mill	S16 "		"	3	0.70 - 1.74	A 1.13	0.02 - 0.07	M 0.05
#3620 Large Hawthorne Lathe	S17 "		"	3	0.43 - 0.60	A 0.50	0.01 - 0.03	A 0.02
#3620 Large Hawthorne Lathe	S18 "		"	3	1.61 - 2.51	A 1.98	0.05 - 0.10	A 0.07
#7855 #2 Universal Lathe	S19 "		"	3	0.60 - 1.95	A 1.10	0.03 - 0.08	A 0.05
#7855 #2 Universal Lathe	S20 "		"	3	1.13 - 1.48	M 1.32	0.03 - 0.05	A 0.04
#7884 Lathe	S21 "		"	3	0.64 - 0.93	M 0.80	0.02 - 0.03	M 0.03
#7875 M.O.A. Lathe	S22 "		"	3	1.77 - 1.83	M 1.82	0.03 - 0.04	M 0.04
#7885 Large Overall Lathe	S24 "		"	3	1.81 - 1.87	A 1.83	0.06 - 0.10	A 0.08
#7852 Bend Lathe	S25 "		"	3	0.17 - 0.84	M 0.75	0.00 - 0.01	A 0.00
#7860 Universal Lathe	S26 "		"	3	0.19 - 0.29	M 0.25	0.00 - 0.00	A 0.00
#7860 Universal Lathe	S27 "		"	3	0.21 - 0.28	A 0.24	0.00 - 0.01	A 0.00
Bullard Boring Mill	S28 "		Prelim.	3	0.76 - 1.35	A 1.02	0.00 - 0.03	A 01
#7882 Cut-Off Table Saw	*S29 "		Eval.	3	12.08 - 15.39	*M 14.91	0.21 - 0.32	M .31
#7880 #5 Specialty Lathe	S30 "		"	3	0.43 - 0.56	M 0.55	0.00 - 0.00	A 0.00
#7915 Beach Swing Saw	S31 "		"	3	0.39 - 0.64	A 0.48	0.00 - 0.00	A 0.00
#7851 K. & C. Lathe	S32 "		"	3	0.28 - 0.58	A 0.43	0.00 - 0.00	A 0.00
#7854 K. & C. Lathe	S33 "		"	3	0.37 - 0.60	M 0.58	0.00 - 0.02	A 0.01
#7930 K. & C. Lathe	S34 "		"	3	0.34 - 0.55	A 0.42	0.00 - 0.00	A 0.00
#7929 K. & C. Lathe	S35 "		"	3	0.67 - 0.69	M 0.69	0.00 - 0.04	A 0.01
#7877 Rack Saw	S36 "		"	3	1.91 - 2.13	M 2.09	0.04 - 0.07	A 0.05
Radial Drill	S37 "		Prelim.	3	0.22 - 0.29	A 0.25	0.00 - 0.03	A 0.01
#7853 K. & C. Lathe	S38 "		"	3	0.25 - 0.42	M 0.38	0.00 - 0.02	A 0.01
#3 Fibre Skip Hoist	S39 "		Eval.	3	0.52 - 2.60	M 2.23	0.02 - 0.07	A 0.04
Scrap Dispenser	S40 "		"	3	1.30 - 4.14	A 2.44	0.00 - 0.05	A 0.02
Scrap Grinder	*S41 "	3-I-4	elim.	3	2.05 - 52.86	*A 25.87	0.04 - 2.18	1.29
Scrap Grinder	S41 "		Eval.	3	1.26 - 2.95	A 2.05	0.00 - 0.08	0.05

Cont.

TRANSITE PIPE (Cont.)	Station Number	Former GPED Sta.No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
#1 Fibre Skip Hoist	842 I	81-I-4	Eval.	3	1.58 - 2.38	A 1.94	0.00 - 0.03	M 0.03
Betw. #1 & #2 Fibre Skip Hoists	843 "	163-I-4	Prelim.	3	0.56 - 1.22	M 0.95	0.03 - 0.06	A 0.04
#1 Fibre Skip Hoist	844 "	85-I-4	"	3	0.78 - 1.32	A 0.99	0.00 - 0.01	A 0.01
Cyclone Bagger #2 Pipe Machine	845 "	164-I-4	Eval.	3	0.57 - 1.31	A 0.88	0.00 - 0.03	A 0.01
Hoist on #3 Pipe Machine	846 "	89-I-7	Prelim.	3	0.38 - 0.80	A 0.59	0.00 - 0.03	A 0.01
Scale on #3 Pipe Machine	847 "	11-I-7	Eval.	3	1.41 - 2.44	M 1.93	0.01 - 0.05	A 0.03
Crosswalk on #3 Pipe Machine	*848 "	169-I-25	"	3	17.46 - 26.21	*A 20.57	0.18 - 0.26	M 0.25
#1 Willow	849 "	87-I-4	Prelim.	3	1.56 - 2.41	A 1.94	0.00 - 0.05	M 0.03
Live Bottom Fibre Bin	850 "	83-I-4	"	3	0.89 - 1.26	M 1.20	0.01 - 0.04	M 0.03
Control Panel for #2 Pipe Machine	851 "	98-I-7	"	3	0.75 - 0.89	A 0.81	0.00 - 0.01	A 0.00
Scale on #2 Pipe Machine	852 "	10-I-7	Eval.	3	1.10 - 1.35	M 1.25	0.03 - 0.04	M 0.04
Hoist on #2 Pipe Machine	853 "	R10-I-7	Prelim.	3	0.77 - 0.87	M 0.83	0.00 - 0.03	A 0.01
Crosswalk on #2 Pipe Machine	854 "	14-I-25	Eval.	3	4.33 - 5.54	A 4.93	0.03 - 0.04	M 0.03
Betw. Headends of #2 & #3 P.M.	855 "	90-I-7	Prelim.	3	0.33 - 0.40	M 0.40	0.00 - 0.01	A 0.00
Scale on #1 Pipe Machine	856 "	97-I-7	Eval.	3	1.05 - 1.39	M 1.23	0.00 - 0.03	A 0.01
Cyclone Bagger #1 Pipe Machine	*857 "	7-I-7	"	1	21.23 - -	*A 21.23	0.24 - -	A 0.24
Hoist on #1 Pipe Machine	858 "	R97-I-7	"	3	0.77 - 10.18	A 4.30	0.00 - 0.04	A 0.02
Crosswalk Over #1 Pipe Machine	859 "	168-I-25	"	3	2.97 - 3.80	A 3.37	0.06 - 0.08	M 0.06
G.F.S. in Moulding Section	860 "	82-I-1	Prelim.	3	1.51 - 1.83	A 1.62	0.04 - 0.05	M 0.05
#7789 Radial Drill	861 "	86-I-1	Eval.	3	0.87 - 1.23	M 1.16	0.01 - 0.03	M 0.03
G.F.S. in Moulding Section	862 "	160-I-1	"	3	0.87 - 1.23	M 1.10	0.00 - 0.07	A 0.01
Near Foreman's Office in Wet End	863 "		Prelim.	3	1.52 - 2.00	A 1.76	0.01 - 0.03	A 0.02
Scale on #4 Pipe Machine	864 "	139-I-5	"	3	0.92 - 1.15	M 1.14	0.01 - 0.03	A 0.02
Crosswalk on #4 Pipe Machine	865 "	165-I-5	"	3	1.51 - 1.81	A 1.65	0.01 - 0.05	A 0.03
Where Mandrels are fed into #4 P.M.	866 "	166-I-5	"	3	0.66 - 0.80	A 0.71	0.00 - 0.03	A 0.01
#7877 Rack Saw	*867 "		"	3	5.68 - 7.00	*M 6.64	0.09 - 0.12	A 0.10
Crosswalk on #1 Pipe Machine	*868 "	170-I-25	"	3	66.03 - 88.25	*M 81.74	0.59 - 0.68	A 0.66
Machine Controls Betw. #2 & #3 P.M.	869 "	167-I-7	"	3	0.27 - 0.40	A 0.33	0.00 - 0.01	A 0.00
Work Bench in Fibre Warehouse	870 "		"	3	0.32 - 0.41	M 0.39	0.00 - 0.01	A 0.00
G.F.S. in Fibre Warehouse	871 "		"	3	0.81 - 1.08	M 1.07	0.00 - 0.02	A 0.01
#3 Overhead Crane	872 "	153-I-13	Eval.	3	0.59 - 0.78	M 0.72	0.00 - 0.01	A 0.00
#7707 De Walt Swing Saw	*873 "	102-I-1	Prelim.	3	6.59 - 11.85	*M 10.44	0.22 - 0.28	A 0.25

Asterisk - Stations requiring control.
Preliminary - Study to identify problem areas.
Evaluation - Study pending completion of corrective action.
Follow Up - Study subsequent to completion of corrective action.
Audit - Periodic study to check control.
Med./Avg. - Median or Average - whichever is higher.

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Atmospheric Hygiene Studies
Dec. 1958 -thru- June 1959
PACKINGS & FRICTION MATERIALS PLANT

TEXTILES	Station Number	Former OPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
W.S. Automatic Bobbin Winder	*S 17 A		Eval.	3	5.36 - 5.97	*A 5.57	1.20 - 1.45	*M 1.40
W.S. Hollow Cop Winder	S 18 "		"	3	2.36 - 2.50	A 2.43	0.39 - 0.61	A 0.49
#36 Weaving Loom	*S 19 "		"	3	4.86 - 5.61	*A 5.23	0.44 - 0.61	A 0.52
#8 Cloth Loom	S 20 "		"	4	0.64 - 1.55	A 1.10	0.12 - 0.32	A 0.22
#35 Weaving Loom	*S 22 "		"	3	5.22 - 6.36	*M 5.96	0.49 - 0.70	M 0.60
#37 Weaving Loom	*S 34 "		"	3	4.81 - 9.61	*A 6.48	0.42 - 0.92	A 0.62
Laundry Loom	S 39 "		"	3	0.61 - 0.90	M 0.81	0.22 - 0.28	A 0.24
Laundry Loom	S 39 "		Follow-Up	3	2.44 - 3.12	M 2.80	0.22 - 0.23	M 0.22
Laundry Loom	S 40 "		Eval.	3	0.64 - 0.85	M 0.81	0.22 - 0.28	A 0.24
Laundry Loom	S 40 "		Follow-Up	3	0.88 - 1.18	M 1.05	0.20 - 0.26	M 0.24
#40 Carding Machine	S 94 "		Eval.	3	0.50 - 0.63	A 0.56	0.04 - 0.06	A 0.05
#35 Carding Machine	S 95 "		"	3	2.33 - 3.20	M 2.79	0.14 - 0.24	A 0.19
#34 Carding Machine	S 97 "		"	3	2.91 - 3.18	A 3.01	0.26 - 0.36	A 0.30
#32 Carding Machine	S100 "		"	3	3.52 - 5.57	M 4.60	0.54 - 0.72	M 0.66
#32 Carding Machine	S100 "		"	3	3.41 - 3.75	A 3.56	0.45 - 0.54	A 0.49
#30 Carding Machine	S102 "		Follow-Up	3	1.15 - 2.25	M 1.99	0.11 - 0.24	M 0.20
#27 Carding Machine	S104 "		Eval.	3	3.29 - 4.00	M 3.76	0.39 - 0.43	A 0.41
#2 Carding Machine	S105 "		"	3	0.77 - 1.00	M 0.89	0.08 - 0.17	A 0.12
#2 Carding Machine	S105 "		Follow-Up	3	0.88 - 1.42	A 1.06	0.08 - 0.20	A 0.13
#6 Carding Machine	S107 "		" "	3	1.20 - 1.93	A 1.51	0.13 - 0.21	A 0.17
Between #18 & #20 Cards	S109 "		Eval.	3	1.04 - 1.44	A 1.18	0.07 - 0.14	M 0.11
Between #18 & #20 Cards	S109 "		Follow-Up	3	3.22 - 4.28	M 4.10	0.31 - 0.54	A 0.42
Between #22 & #24 Cards	S110 "		" "	3	1.08 - 1.93	A 1.48	0.11 - 0.14	A 0.12
Between #22 & #24 Cards	S110 "		" "	3	4.07 - 4.33	A 4.20	0.45 - 0.55	M 0.51
Between #21 & #23 Cards	*S111 "		Eval.	3	2.79 - 3.71	M 3.35	1.22 - 1.55	*M 1.42
Between #21 & #23 Cards	*S111 "		Follow-Up	3	2.58 - 3.85	A 3.20	0.03 - 1.29	*M 1.13
Between #19 & #21 Cards	S112 "		Eval.	3	1.70 - 2.15	A 1.91	0.44 - 0.57	A 0.49
Between #19 & #21 Cards	S112 "		Follow-Up	3	2.37 - 3.43	A 2.81	0.28 - 0.35	A 0.31
Between #56 & #57 Breaker Cards	S114 "		Eval.	3	1.01 - 1.49	M 1.32	0.10 - 0.12	A 0.11
Between #56 & #57 Breaker Cards	S114 "		Follow-Up	3	1.56 - 2.71	A 1.97	0.08 - 0.20	A 0.14
Between #56 & #59 Breaker Cards	S115 "		Eval.	3	1.01 - 1.41	M 1.32	0.07 - 0.09	A 0.08
Between #54 & #59 Breaker Cards	S116 "		"	3	1.48 - 2.64	M 2.51	0.16 - 0.39	A 0.26
Between #54 & #59 Breaker Cards	S116 "		Follow-Up	3	1.06 - 2.46	A 1.62	0.19 - 0.29	A 0.24
Between #26 & #28 Cards	S121 "		Eval.	3	1.12 - 1.57	M 1.55	0.11 - 0.14	A 0.12
Waste Feeder	S128 "		"	3	1.16 - 1.24	A 1.19	0.08 - 0.11	M 0.10
West Floor Intake Duct	S132 "		"	3	2.29 - 3.15	M 2.92	0.20 - 0.28	0.23
Screen Cleaner	S133 "		"	3	1.26 - 1.67	A 1.45	0.06 - 0.12	0.09
[illegible]	[illegible] "		"	3	4.23 - 5.07	M 4.96	0.72 - 1.09	M 0.99

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TEXTILES (Cont.)	Station Number		Former GPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range		Particle Med./Avg.		Fibre Count Range		Fibre Med./Avg.	
#6 P.S.&S. Twisting Frame	S147	A		Eval.	3	2.14 -	4.16	M	3.82	0.69 -	0.94	M	0.80
#3 Whitin "L" Spinning Frame	S148	"	162-A-21	Prelim.	3	3.12 -	3.84	A	3.40	0.78 -	1.07	A	0.92
Thermowrap Hook Machine	S151	"		Follow-Up	3	1.10 -	1.81	A	1.42	0.39 -	0.81	A	0.55
#14 Whitin "L" Spinning Frame	*S153	"		Prelim.	3	1.45 -	3.21	M	3.19	0.80 -	2.08	*M	1.53
Platt Lap-Stock Picker	*S154	"		"	3	2.97 -	14.48	*M	14.15	0.34 -	1.67	*M	1.30
Platt Lap-Stock Picker	S155	"		"	3	1.35 -	2.72	M	2.08	0.16 -	0.23	M	0.21
Between #2 & #3 Whitin "L" Frames	S156	"	19-A-21	Eval.	3	1.87 -	2.34	A	2.09	0.32 -	0.46	A	0.37
#8 Whitin "L" Frame	S157	"	184-A-21	"	3	1.10 -	1.43	A	1.26	0.17 -	0.29	A	0.22
Between #5 & #6 Whitin "L" Frames	S158	"	169-A-21	"	3	0.64 -	1.24	M	1.23	0.11 -	0.18	A	0.14
Between #5 & #6 Whitin "L" Frames	S159	"	181-A-21	"	3	1.62 -	1.84	M	1.79	0.25 -	0.39	M	0.33
Platt Lap-Stock Picker	*S160	"		Prelim.	3	21.35 -	35.58	*A	27.00	6.99 -	9.12	*A	[illegible]
Platt Lap-Stock Picker	*S161	"		"	3	23.11 -	27.54	*M	27.37	3.94 -	5.27	*A	[illegible]
#1 Whitin "L" Frame	S162	"	252-A-21	Eval.	3	1.37 -	1.59	A	1.46	0.31 -	0.52	M	0.46
#12 Whitin "L" Frame	S163	"	254-A-21	"	3	0.86 -	1.41	A	1.06	0.27 -	0.50	A	0.36
#15 Whitin "L" Frame	S164	"	258-A-21	"	3	1.55 -	3.46	A	2.19	0.36 -	0.66	A	0.48
#8 Whitin "L" Frame	S165	"	173-A-21	"	3	0.66 -	0.80	A	0.72	0.11 -	0.24	A	0.15
Between #13 & #15 Cards	S166	"		Prelim.	3	3.01 -	3.44	A	3.21	0.36 -	0.39	A	0.37
Between #10 & #12 Cards	*S167	"		"	5	1.37 -	11.79	*A	6.69	0.45 -	2.69	*A	1.87
#17 Whitin "L" Frame	S168	"	260-A-21	Eval.	3	1.21 -	2.85	A	1.95	0.32 -	0.47	A	0.37
#20 Whitin "L" Frame	S169	"	262-A-21	"	3	2.43 -	2.48	M	2.47	0.33 -	0.44	M	0.43
#19 Whitin "L" Frame	S170	"	261-A-21	"	3	1.95 -	2.43	A	2.14	0.32 -	0.36	A	0.34
#16 Whitin "L" Frame	S171	"	259-A-21	"	3	1.88 -	2.35	M	2.32	0.25 -	0.39	A	0.31
#15 Whitin "L" Frame	S172	"	257-A-21	"	3	2.29 -	2.43	M	2.42	0.44 -	0.61	A	0.50
#13 Whitin "L" Frame	S173	"	256-A-21	"	3	3.43 -	5.65	A	4.35	0.71 -	1.10	A	0.90
#12 Whitin "L" Frame	S174	"	255-A-21	"	3	3.01 -	3.59	A	3.29	0.42 -	0.52	A	0.47
#11 Whitin "L" Frame	S175	"	253-A-21	"	3	2.12 -	3.01	M	2.67	0.31 -	0.53	M	0.49
#10 Whitin "L" Frame	S176	"	174-A-21	"	3	2.02 -	2.31	A	2.14	0.31 -	0.43	A	[illegible]
#8 Whitin "L" Frame	S177	"	172-A-21	"	3	2.32 -	2.44	M	2.43	0.35 -	0.91	A	[illegible]
#5 Whitin "L" Frame	S178	"	168-A-21	"	3	2.12 -	2.80	A	2.36	0.38 -	0.46	A	0.42
Between #2 & #3 Whitin "L" Frames	S179	"	163-A-21	"	3	1.77 -	2.75	M	2.51	0.28 -	0.50	M	0.45
#9 Whitin "L" Frame	S180	"	177-A-21	"	3	1.34 -	2.46	A	1.82	0.38 -	0.64	A	0.51
#10 Whitin "L" Frame	S181	"	178-A-21	"	3	2.30 -	3.40	A	2.82	0.22 -	0.39	A	0.30
#2,4,6 & 8 Cards, Roving Sample	S182	"		Prelim.	3	2.64 -	3.93	A	3.06	0.45 -	0.54	M	0.54
#12 Saco-Lowell Twisting Frame	*S183	"		"	3	5.91 -	6.64	*M	6.33	1.17 -	1.40	*A	1.26
12 Saco-Lowell Twisting Frame	*S184	"		"	3	6.49 -	6.89	*M	6.70	1.25 -	1.74	*M	1.52
13 Saco-Lowell Twisting Frame	S185	"		"	3	3.32 -	6.98	A	4.80	0.50 -	1.60	A	0.87
#13 Saco-Lowell Twisting Frame	S186	"		"	3	3.57 -	4.73	M	4.69	0.41 -	0.52	A	0.46
#5202 Whitin Roving Frame	S187	"		"	3	1.27 -	1.70	A	1.43	0.25 -	0.30	M	0.29
Carding Machine	*S105	"		Follow-Up	8	4.02 -	8.64	*A	5.38	0.56 -	1.23	A	0.84
#14 Whitin "L" Spinning Frame	*S153	"		Eva	3	3.87 -	6.23	A	4.87	0.83 -	1.56	*A	1.00

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FRICTION MATERIALS	Station Number	Former GPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
#84B Surface Grinder	S 4 Al		Eval.	3	0.41 - 1.31	A 0.76	0.01 - 0.31	A 0.11
#6362 Grinder	S 5 "		"	3	0.56 - 0.89	A 0.68	0.02 - 0.06	A 0.03
#2 Bliss Punch Press (218)	S 23 "		"	3	0.32 - 0.60	A 0.42	0.01 - 0.03	A 0.02
V36 Yates Bandsaw	S 33 "		"	3	8.87 - 10.81	M 10.21	1.34 - 1.65	A 1.47
Fitzpatrick Mixer	S 34 "		"	1	4.76 - -	A 4.76	0.04 - -	A 0.04
#2 Curing Oven	S 40 "		"	3	(L.T. (0.002 PPM - (L.T. (0.002 PPM	A (L.T. (0.002 PPM	Phenol Vapors	
De Walt Grooving Saw	S 41 "		"	2	0.73 - 0.92	A 0.83	0.10 - 0.11	A 0.[illegible]
De Walt Grooving Saw	*S 60 "		Prelim.	2	2.45 - 5.26	A 3.86	0.48 - 1.66	*A 1.[illegible]
Impregnating Towers	11- Al Vapor		"	29	175 PPM - 700 PPM	A 400 PPM	Rubber Solvent Naphtha	
MOULDED PACKINGS								
Binks Spray Booth	1- Al Vapor		"	9	Neg. - 200 PPM	A 65 PPM	Methyl Iso Butyl Ketone	
Phillips Degreaser	*2- Al Vapor		"	3	15 PPM - 20 PPM	*A 12 PPM	Tetrachloroethane	
Dipping House	3- Al Vapor		"	7	75 PPM - 400 PPM	A 150 PPM	Methyl Ethyl Ketone	
#12 Preform Booth	4- Al Vapor		"	7	Neg. - 350 PPM	A 150 PPM	Methyl Ethyl Ketone	
#11 Preform Booth	5- Al Vapor		"	6	Neg. - 300 PPM	A 140 PPM	Solvesso	
#7,8,9,& 10 Preform Booths	6- Al Vapor		"	22	Neg. - Neg.	A Neg.	Methyl Ethyl Ketone & Solvesso	
#4,5, & 6 Preform Booths	7- Al Vapor		"	18	Neg. - Neg.	A Neg.	Methyl Ethyl Ketone	
#3 Preform Booth	8- Al Vapor		"	9	Neg. - 100 PPM	A 33 PPM	Methyl Ethyl Ketone & Solvesso	
RUBBER								
Top Platform Banbury Mixer	*S 30 B		"	3	98.79 - 191.12	*M 170.21	Not Asbestos	
Top Platform Banbury Mixer	*S 30 "		Eval.	3	91.94 - 323.05	*A 194.88	Not Asbestos	
Top Platform Banbury Mixer	S 30 "		"	3	9.14 - 22.04	A 17.84	Not Asbestos	
Banbury Slab-off Mill	S 31 "		Prelim.	1	0.85 - -	A 0.85	Not Asbestos	
#2 Willow	S 44 "		Eval.	3	1.62 - 5.31	A 3.24	0.04 - 0.33	M 0.20
Bet. #182 Serv. Sheet Mixers	*S 45 "		"	3	3.75 - 11.12	*A 6.97	0.12 - 0.78	A 0.37
Compound Area	S 47 "		"	3	243.36 - 347.17	*A 291.42	Not Asbestos	
Hoppers on the Mezzanine	S 48 "		"	3	2.52 - 2.70	M 2.70	Not Asbestos	
#1 Willow	*S 49 "			3	6.65 - 12.08	*M 9.81	0.16 - 0.21	M [illegible].9
Bet. #384 Serv. Sheet Mixers	S 50 "		"	3	0.51 - 0.61	M 0.58	0.00 - 0.00	A [illegible]
[illegible] Roll Calender (Wood-in)	S 52 "		"	2	0.81 - 0.88	A 0.85	Not Asbestos	(Cont.)

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RUBBER (Cont.)	Station Number	Former GPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Laboratory Rubb r Mill	*S 55 B		Prelim.	2	118.76 - 240.67	*A 179.72	Not Asbestos	
Banbury Mixer	*S 57 "		"	3	94.87 - 606.80	*M 480.00	Not Asbestos	
Banbury Mixer	*S 57 "		Eval.	3	68.91 - 361.63	*A 199.69	Not Asbestos	
Banbury Mixer	S 57 "		"	3	5.57 - 34.46	A 16.66	Not Asbestos	
Banbury Slab-off Mill	S 58 "		Prelim.	3	4.00 - 11.44	A 7.55	Not Asbestos	
Two Roll Calender	S 59 "		"	3	7.79 - 9.98	A 7.87	Not Asbestos	
North Dev. Mach. (Appl. Trough)	1- B	Vapor	"	7	100 PPM - 600 PPM	A 240 PPM	Methyl Ethyl Ketone & Ethyl Alcohol	
North Dev. Mach. (Take-off)	*1A-B	Vapor	"	7	Neg. - 2000 PPM	*A 900 PPM	Methyl Ethyl Ketone & Ethyl Alcohol	
North Dev. Mach. (Control Panel)	*1B-B	Vapor	"	7	Neg. - 1800 PPM	*A 1035 PPM	Methyl Ethyl Ketc & Ethyl Alcohol	
Decetex Applicator Table	*2- B	Vapor	"	4	200 PPM - 300 PPM	*A 250 PPM	Toluol	
Decetex Applicator Table	*2A-B	Vapor	"	6	700 PPM - 1200 PPM	*A 950 PPM	Toluol	
#2 Serv. Sheet Mixer (Discharge)	*3- B	Vapor	"	6	275 PPM - 1000 PPM	*A 650 PPM	Toluol	
#3 Serv. Sheet Mixer (Discharge)	*3A-B	Vapor	"	5	125 PPM - 1600 PPM	*A 690 PPM	Rubber Solvent Naphtha	
#4 Serv. Sheet Mixer (Discharge)	*3B-B	Vapor	"	2	200 PPM - 400 PPM	*A 300 PPM	Toluol	
#1 Serv Sheet Mixer (Discharge)	3C-B	Vapor	"	2	150 PPM - 175 PPM	A 165 PPM	Rubber Solvent Naphtha	
South Dev. Mach. (Appl. Trough)	*4- B	Vapor	"	9	Neg. - 500 PPM	*A 200 PPM	Toluol	
South Dev. Mach. (Control Panel)	4A-B	Vapor	"	9	Neg. - Neg.	A Neg.	Toluol	
South Dev. Mach. (Take-off)	4B-B	Vapor	"	9	Neg. - Neg.	A Neg.	Toluol	
#1 Sheeter Mach. (near Scale)	5- B	Vapor	"	12	Neg. - 150 PPM	A 75 PPM	Toluol & Rubber Solvent Naphtha	
#1 Sheeter Mach. (Take-off)	5A-B	Vapor	"	12	Neg. - 125 PPM	A 60 PPM	Toluol & Rubber Solvent Naphtha	
#2 Sheeter Mach. (near Scale)	6- B	Vapor	"	9	75 PPM - 200 PPM	A 110 PPM	Toluol	
#2 Sheeter Mach. (Take-off)	6A-B	Vapor	"	9	Neg. - 150 PPM	A 60 PPM	Toluol	
Unloading #5 Ross Mixer	*7- B	Vapor	"	3	Neg. - 4000 PPM	*A 2000 PPM	Rubber Solvent Naphtha	
Unloading #7 Ross Mixer	*7A-B	Vapor	"	6	150 PPM - 1200 PPM	*A 700 PPM	Rubber Solvent Naphtha	
Filling #3 Ross Mixer	*7B-B	Vapor	"	3	800 PPM - 800 PPM	*A 800 PPM	Toluol	
Unloading #6 Ross Mixer	*7C-B	Vapor	"	4	575 PPM - 1000 PPM	*A 850 PPM	Rubber Solvent Naphtha	
Unloading #4 Ross Mixer	7D-B	Vapor	"	2	400 PPM - 400 PPM	A 400 PPM	Rubber Solvent Naphtha	
Unloading #616 Adhesive Mixer	*7F-B	Vapor	"	3	550 PPM - 650 PPM	*A 600 PPM	Toluol	
Churn Room	8- B	Vapor	"	15	Neg. - Neg.	A Neg.	Toluol	
#2 Serv. Sheet Mix. (Loading Area)	*9- B	Vapor	"	2	18% Expl.- 40% Expl.	*A 29% Expl.	Toluol	
#3 Serv. Sheet Mix. (Loading Area)	*9A-B	Vapor	"	2	650 PPM -100% Expl.	*A 52% Expl.	Rubber Solvent Naphtha	
#1 Serv. Sheet Mix. (Loading Area)	*9C-B	Vapor	"	3	8000 PPM - 8000 PPM	*A 8000 PPM	Rubber Solvent Naphtha	

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Atmospheric Hygiene Studies
Dec. 1958 -thru- June 1959
BUILDING PRODUCTS PLANT

PAPER MILL	Station Number	Former GPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Slitter on #2 Paper Machine	S 1 D		Prelim.	3	0.37 - 0.54	A 0.44	0.00 - 0.00	A 0.00
Slitter on #5 Paper Machine	S 2 "		"	3	0.93 - 0.94	M 0.94	Not Asbestos	
#10 Beater	*S 3 "		"	4	2.49 - 22.94	*A 9.58	0.09 - 0.17	A 0.13
#10 Beater	*S 3 "		Eval.	3	3.21 - 11.80	*A 6.59	0.31 - 1.00	A 0.60
Micrometer Rack #2 Paper Mach.	S 4 "		Prelim.	3	0.63 - 1.26	A 0.85	0.00 - 0.01	A 0.00
Dryer Rolls #5 Paper Machine	S 5 "		"	3	0.90 - 1.17	A 1.00	Not Asbestos	
Between #2 & #3 Defibrators	S 6 "		"	3	0.30 - 0.71	M 0.65	Not Asbestos	
Oper.'s Controls for Hydropulper	S 7 "		"	3	0.70 - 0.95	M 0.92	Not Asbestos	
Scale for #5 Paper Machine	S 8 "		"	3	0.29 - 0.53	M 0.42	Not Asbestos	
#9 Beater	*S 9 "		"	3	15.56 - 85.05	*A 40.74	0.30 - 1.32	A 0.81
PLANNING & SCHEDULING								
#4 Door on East Side	S 1 F1		"	3	0.14 - 0.18	A 0.16	Not Asbestos	
#7 Door on West Side	S 2 "		"	3	0.12 - 0.18	M 0.18	Not Asbestos	
Main Door on North Side	S 3 "		"	3	0.24 - 0.52	A 0.33	Not Asbestos	
In 4th Bay on South Side	S 1 F2		"	3	0.20 - 0.25	A 0.22	Not Asbestos	
In 1st Bay on South Side	S 2 "		"	3	0.17 - 0.27	M 0.23	Not Asbestos	
In 5th Bay on North Side	S 3 "		"	3	0.21 - 0.24	A 0.22	Not Asbestos	
ASPHALT ROOFING								
#4 Roofing Mach. nr. Telephone	*S 1 F		"	3	99.70 - 234.22	*M 217.22	Not Asbestos	
#4 Roofing Mach. nr. Telephone	*S 1 "		Eval.	3	15.88 - 66.77	*M 54.20	Not Asbestos	
#2 R.M. nr. Control Switches	*S 2 "		Prelim.	6	14.11 - 24.24	*A 19.20	0.00 - 0.00	A 0.00
#2 R.M. bet. Talc Elevators	S 3 "		"	3	15.49 - 26.16	A 19.84	Not Asbestos	
#2 R.M. Splicing Area	S 4 "		"	3	0.25 - 0.28	A 0.26	Not Asbestos	
#4 R.M. Splicing Area	S 5 "		"	3	0.28 - 0.37	M 0.35	Not Asbestos	
#1 R.M. Splicing Area	S 6 "		"	3	0.37 - 0.38	M 0.38	0.00 - 0.00	A 0.00
Bet. #1 & #6 Roofing Machines	*S 7 "		"	3	49.24 - 64.09	*A 54.64	Not Asbestos	
#1 R.M. at Operator's Controls	*S 8 "		"	3	102.76 - 129.04	*A 112.73	Not Asbestos	
#6 R.M. in Saturator	*S 9 "		"	3	295.01 - 333.59	*M 332.96	Not Asbestos	
Bet. #1 & #6 Roofing Machines	*S 10 "		"	3	79.42 - 105.42	*M 102.44	Not Asbestos	
#6 R.M. at Operator's Controls	*S 11 "		"	3	82.75 - 137.91	*M 114.96	Not Asbestos	
#4 R.M. at Coating Roll	*S 12 "		"	3	39.90 - 45.20	*A 42.22	Not Asbestos	
#4 R.M. at Coating Roll	*S 12 "		"	3	64.76 - 117.54	*M 108.54	Not Asbestos	
#4 R.M. at Talc Elevator	*S 13 "		"	3	16.44 - 35.42	*M 30.35	Not Asbestos	

Cont.

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ASPHALT ROOFING (Cont.)	Station Number	Former OPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
On Step Landing in Mach. Room	*S 14 F		Prelim.	3	492.00 - 753.00	*M 723.00	Not Asbestos	
Storage Area in Machine Room	*S 15 "		"	3	76.00 - 140.00	*A 105.00	Not Asbestos	
#4 R.M. at Overlay Coating Sec.	S 16 "		"	3	0.43 - 0.59	M 0.54	Not Asbestos	
At Desk Betw. #2 & #4 R. M.	S 17 "		"	3	0.46 - 0.61	M 0.56	Not Asbestos	
Between #2 & #4 R. M.	*S 18 "		"	3	65.46 - 75.19	*A 69.83	Not Asbestos	
#1 R.M. Opr. applies Talc	*S 19 "		"	3	22.31 - 25.01	*M 24.19	Not Asbestos	
#1 R.M. at Pitch Opr.'s Area	S 20 "		"	3	0.54 - 1.08	A 0.73	Not Asbestos	
#4 R.M. Conveyor at Control Panel	S 21 "		"	3	0.14 - 0.21	M 0.21	Not Asbestos	
#1 R.M. Take-off Area	S 22 "		"	3	0.87 - 1.45	A 1.07	Not Asbestos	
#4 R.M. in Storage Area	*S 23 "		"	3	86.17 - 90.77	*A 88.39	Not Asbestos	
Between #2 & #4 R. M.	*S 24 "		"	3	53.96 - 67.53	*M 64.39	Not Asbestos	
#4 R.M. Shingle Cutter	S 25 "		"	3	0.23 - 0.49	A 0.32	Not Asbestos	
#4 R.M. Shingle Cutter	S 26 "		"	3	0.32 - 0.97	M 0.70	Not Asbestos	
#4 R.M. above Slate Hoppers	*S 27 "		"	3	111.65 - 118.03	*M 116.99	Not Asbestos	
#4 R.M. Shingle Cutter	S 28 "		"	3	0.68 - 1.25	A 0.93	Not Asbestos	
Wire Tying Machine	S 29 "		"	3	0.32 - 0.38	M 0.37	Not Asbestos	
Nr. Elevator on 2nd Floor	*S 30 "		"	5	215.14 - 423.48	*A 290.97	Not Asbestos	
Control Panel on 2nd Floor	*S 31 "		"	3	94.18 - 207.14	*M 184.32	Not Asbestos	
#4 Door on East Side	S 32 "		"	3	0.28 - 0.38	M 0.36	Not Asbestos	
2 Door on East Side	S 33 "		"	3	0.29 - 0.39	M 0.35	Not Asbestos	
Nr. Stairway Opening on 2nd Fl.	*S 34 "		"	3	204.66 - 220.86	*M 217.23	Not Asbestos	
Nr. Elevator in Basement	S 35 "		"	3	6.21 - 10.32	M 10.25	Not Asbestos	
#4 R.M. nr. Electronic Eye	S 36 "		"	3	7.60 - 9.60	M 8.91	Not Asbestos	
Southwest Corner of Basement	S 37 "		"	3	4.46 - 6.21	A 5.21	Not Asbestos	
#2 R.M. at Take-off	S 38 "		"	3	1.30 - 2.62	M 2.43	Not Asbestos	
#6 R.M. at Take-off	S 39 "		"	3	0.16 - 0.39	A 0.27	Not Asbestos	
Mamblet Cutter Take-off	S 40 "		"	3	1.98 - 3.45	A 2.52	Not Asbestos	
ASPHALT & PREFORMED								
Mastic Day Mixer	*S 1 G		Eval.	3	12.18 - 23.15	*M 19.63	0.06 - 0.12	A 0.10
Press Roll	S 5 "		"	3	2.40 - 4.98	A 3.43	0.04 - 0.08	A 0.06
Extruder on Day Mixer	*S 15 "		Prelim.	3	2.83 - 11.97	*A 6.43	0.04 - 0.12	A 0.07
Where Opr. Screens Shingle Scrap	*S 16 "		"	3	37.11 - 113.36	*M 79.26	0.56 - 3.70	A 2.09
RIGID SHINGLES & CORR. TRANSITE								
Vibrator on #2 Shingle Machine	S 1 H		Eval.	3	0.68 - 0.86	M 0.78	0.01 - 0.02	A 0.01
Vibrator on #2 Shingle Machine	S 2 "		"	3	3.13 - 3.67	M 3.46	0.03 - 0.05	A 0.04
Vibrator on #3 Shingle Machine	S 3 "		"	3	3.97 - 5.06	A 4.39	0.03 - 0.10	A 0.06
Muff Box on #2 Shingle Machine	*S 6 "		"	3	12.29 - 26.05	*M 21.67	0.76 - 0.95	A 0.85
Take-off on #2 Shingle Machine	S 13 "			3	1.24 - 1.91	A 1.48	0.03 - 0.07	A 0.04

Cont.

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RIG. SHINGLES & CORR. TRANS. (Cont.)	Station Number	Former GPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Fluff Box on #3 Shingle Machine	*S 14 H		Eval.	3	4.14 - 30.75	*A 17.15	0.12 - 1.42	A [illegible]
Take-off on #2 Shingle Machine	S 15 "		Prelim.	3	2.41 - 5.70	A 3.74	0.04 - 0.07	A [illegible]
Fluff Box on #3 Shingle Machine	*S 16 "	62-H-19	Eval.	3	6.50 - 31.00	*A 15.67	0.00 - 0.20	A [illegible]
Fluff Box on #3 Shingle Machine	*S 16 "		"	3	6.10 - 6.53	*M 6.53	0.21 - 0.26	M [illegible]
Fluff Box on #3 Shingle Machine	*S 17 "	53-H-8	"	3	7.34 - 15.00	*A 10.61	0.09 - 0.40	A [illegible]
Fluff Box on #3 Shingle Machine	S 17 "		"	3	3.73 - 5.00	A 4.16	0.04 - 0.12	A [illegible]
Fluff Box on #3 Shingle Machine	S 17 "		Follow-up	3	2.92 - 3.59	A 3.19	0.04 - [illegible]	M [illegible]
Fluff Box on #3 Shingle Machine	*S 18 "	23-H-8	Eval.	3	9.00 - 50.91	*A 24.64	0.00 - [illegible]	A [illegible]
Fluff Box on #3 Shingle Machine	*S 18 "		"	3	4.76 - 5.33	*M 5.15	0.06 - 0.08	A [illegible]
#6 Punch Press (Feed-in)	*S 19 "		Prelim.	3	6.00 - 10.00	*M 10.00	0.10 - 0.50	A [illegible]
#6 Punch Press (Feed-in)	S 19 "		Eval.	3	0.42 - 0.61	A 0.51	0.00 - 0.03	M [illegible]
Inclined Scrap Conveyor	S 20 "		"	3	1.99 - 2.09	M 2.09	0.00 - 0.08	M [illegible]
#6 Punch Press (Take-off)	S 21 "		"	3	1.20 - 1.53	A 1.36	0.03 - 0.04	M [illegible]
Midway Betw. #2 & #3 Shingle Mach.	S 23 "		"	3	1.14 - 1.98	M 1.96	0.02 - 0.05	M [illegible]
Day Mixer on #3 Shingle Machine	S 24 "		"	3	0.55 - 0.82	A 0.66	0.01 - 0.03	M [illegible]
Veneer Mixer on #3 Shingle Machine	S 26 "	54-H-8	Prelim.	3	2.00 - 5.09	A 3.43	0.02 - 0.10	M 0.07
#4 Punch Press (Feed-in)	S 27 "		"	3	1.80 - 2.10	A 1.93	0.05 - 0.08	M 0.07
Take-off on #3 Shingle Machine	S 28 "	4-H-8	Eval.	3	0.70 - 1.80	M 1.30	0.02 - 0.07	A 0.04
#3 Punch Press (Take-off)	S 29 "		Prelim.	3	1.70 - 2.00	M 2.00	0.05 - 0.08	M [illegible]
#4 Punch Press on Platform	*S 30 "		Eval.	3	4.91 - 6.10	*M 5.76	0.02 - 0.06	A [illegible]
#4 Punch Press Conveyor	S 31 "		"	3	3.89 - 5.06	A 4.33	0.02 - 0.03	M [illegible]
Scrap Grinder	S 32 "		"	3	1.26 - 1.73	M 1.50	0.01 - 0.03	M [illegible]
Flex Tester Conveyor	S 38 "		Prelim.	3	1.98 - 2.46	A 2.15	0.04 - 0.09	M [illegible]
Water Repellent Machine (Feed-in)	S 39 "		"	3	3.51 - 3.99	A 3.72	0.04 - 0.06	M [illegible]
Water Repellent Machine	S 40 "		"	3	1.52 - 1.90	A 1.69	0.03 - 0.05	A [illegible]
Corrugated Transite Mixer	S 41 "	R8-H-8	"	5	1.99 - 6.39	A 3.60	0.04 - 0.11	A [illegible]
#5 Punch Press (Feed-in)	S 42 "	57-H-8	"	3	2.36 - 4.69	A 3.14	0.04 - 0.07	M [illegible]
#5 Punch Press (Feed-in)	S 42 "		Eval.	3	0.58 - 0.73	M 0.66	0.01 - 0.02	A [illegible]
#5 Punch Press (Take-off)	*S 43 "	12-H-8	Prelim.	3	6.87 - 8.84	*M 8.74	0.07 - 0.10	A [illegible]
#5 Punch Press (Take-off)	S 43 "		Eval.	3	1.36 - 2.10	A 1.67	0.04 - 0.06	A [illegible]
#3 Punch Press (Feed-in)	S 44 "		Prelim.	3	1.46 - 1.69	A 1.57	0.03 - 0.06	M [illegible]
#2 Washer (Take-off)	S 45 "		"	3	0.82 - 2.24	M 1.71	0.02 - 0.03	M [illegible]
Table Where Face Nails are Bagged	S 46 "		"	3	0.88 - 1.59	A 1.14	0.00 - 0.00	A [illegible]
Dayton Shear	S 47 "		"	3	0.91 - 1.44	M 1.24	0.00 - 0.04	A [illegible]
Between #1 & #2 Steam Tanks	S 54 "		"	3	0.43 - 0.93	A 0.60	0.00 - 0.03	A [illegible]
Verson Punch Press (Feed-in)	S 55 "	59-H-8	"	3	3.01 - 3.36	A 3.18	0.07 - 0.15	A [illegible]
Verson Punch Press (Feed-in)	S 56 "	58-H-8	"	3	3.80 - 4.99	M 4.40	0.06 - 0.11	A [illegible]
Radial Hand Saw	S 57 "		"	3	1.96 - 3.23	A 2.49	0.08 - 0.27	A [illegible]
Table Saw	S 58 "		"	3	1.42 - 1.84	M 1.65	0.04 - 0.06	M [illegible]
Along Belt Conveyor Take-off	1-H Vapor		"	2	Neg. - 50 PPM	A Neg. 150 PPM	Methyl Iso Bu Ketone Xylene	
Along Belt Conveyor Take-off	1-H Vapor		"	2	Neg. - 250 PPM	A Neg. 150 PPM	Methyl Iso Bu Ketone Xylene	

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RIG. SHRINK S & CORR. TRANS. (Cont.)	Station Number	Former GPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range		Particle Med./Avg.		Fibre Count Range	Fibre Med./Avg.
Along Belt Conveyor Take-off	*1A-H Vapor		Prelim.	2	500 PPM	2000 PPM	*A	1250 PPM	Xylene	
Along Belt Conveyor Take-off	1A-H Vapor		"	2	Neg.	Neg.	A	Neg.	Methyl Iso Butyl Ketone	
Under Overhead Racks	* 2-H Vapor		"	2	100 PPM	300 PPM	*A	200 PPM	Methyl Iso Butyl Ketone	
Machine Shop Over Fog Room	*2A-H Vapor		"	2	900 PPM	1200 PPM	*A	1050 PPM	Methyl Iso Butyl Ketone	
FLEXBOARD										
Transitop Trim Saw (Feed-in)	S100 H		"	3	2.62 -	5.65	M	4.24	0.23 - 0.91	A 0.5[illegible]
Porter Swing Saw	S101 "	50-H-6	"	5	0.90 -	4.22	A	2.26	0.02 - 0.60	A 26
Table Saw	S102 "		"	3	1.21 -	1.67	M	1.48	0.07 - 0.11	A 0.09
Transitop Trim Saw (Take-off)	S103 "	43-H-6	"	3	3.56 -	4.92	M	4.30	0.14 - 0.16	A 0.15
Transitop Trim Saw (Take-off)	S104 "		"	3	2.87 -	3.62	M	3.33	0.10 - 0.35	M 0.23
Flexboard Trim Saws (Take-off)	S105 "	48-H-6	"	3	1.71 -	1.80	A	1.74	0.03 - 0.04	M 0.04
Flexboard Trim Saws (Take-off)	S106 "		"	3	1.00 -	1.35	A	1.16	0.03 - 0.04	A 0.03
Flexboard Trim Saws (Feed-in)	S107 "		"	3	1.05 -	1.15	M	1.14	0.05 - 0.10	A 0.07
Flexboard Tape Machine	S108 "		"	3	0.93 -	1.12	M	1.05	0.05 - 0.15	A 0.08
Flexboard Trim Saws (Feed-in)	S109 "	26-H-6	"	3	1.36 -	1.81	M	1.73	0.07 - 0.14	M 0.12
Forming Machine	S110 "	24-H-6	"	6	2.43 -	3.14	A	2.85	0.00 - 0.14	A 0.06
Shear Cutter	S111 "		"	3	1.42 -	3.46	A	2.20	0.12 - 0.47	A 0.24
Transitop Glue Machine	S112 "	52-H-6	"	3	2.32 -	3.58	M	3.55	0.06 - 0.08	A 0.07
Transitop Glue Applicator Machine	S113 "	51-H-6	"	3	0.61 -	0.66	M	0.66	0.02 - 0.04	A 0.03
Betw. Press & Glue Machines	S114 "		"	3	0.37 -	0.78	M	0.63	0.00 - 0.02	M 0.03
Forming Machine (Take-off)	S115 "		"	3	0.40 -	0.51	M	0.51	0.02 - 0.03	A 0.02
Stripper Machine	S116 "		"	3	0.47 -	0.65	A	0.54	0.00 - 0.02	A 0.00
Forming Machine	S117 "		"	3	0.41 -	0.56	A	0.48	0.00 - 0.00	A 0
ROCK WOOL										
Gen'l Fl. Sample in Storage Area	S 1 RW		"	3	0.22 -	0.40	A	0.28	Not Asbestos	
Gen'l Fl. Sample in Storage Area	S 2 "		"	3	0.11 -	0.31	A	0.20	Not Asbestos	
Near Truck Loading Area	S 3 "		"	3	0.19 -	0.29	A	0.24	Not Asbestos	
F? Bagger of Unit #7	S 4 "		"	3	0.22 -	0.29	M	0.27	Not Asbestos	
Hitter on Unit #9	S 5 "		"	3	0.13 -	0.22	M	0.19	Not Asbestos	
Near Oven on Unit #9	S 6 "		"	3	0.14 -	0.30	M	0.23	Not Asbestos	
Near Blow Chamber on Unit #9	S 7 "		"	3	0.17 -	0.31	M	0.25	Not Asbestos	
Take-off on Unit #9	S 8 "		"	3	0.30 -	0.44	A	0.37	Not Asbestos	
Near Press on Unit #9	S 9 "		"	3	0.55 -	0.60	M	0.58	Not Asbestos	
Batt Packer on Unit #9	S 10 "		"	3	0.41 -	0.56	M	0.55	Not Asbestos	
			"	3	0.71 -	0.78	A	0.74	Not Asbestos	

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ROCK WOOL (Cont.)	Station Number	Former QPED Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Cross Cut Saw on Unit #12	S 12 RW		Prelim.	3	0.42 - 1.22	M 1.01	Not Asbestos	
Cupola for Unit #9 in Jet Room	S 13 "		"	3	0.31 - 1.03	A 0.67	Not Asbestos	
Cupola for Unit #12 in Jet Room	S 14 "		"	3	0.09 - 0.42	A 0.22	Not Asbestos	
Charging Sta. Unit #9, Fire Room	S 15 "		"	3	0.10 - 0.22	M 0.19	Not Asbestos	
Type "L" Bagger	S 16 "		"	3	0.10 - 0.15	A 0.12	Not Asbestos	
Cupola for Unit #7 in Fire Room	S 17 "		"	3	2.34 - 4.21	M 4.17	Not Asbestos	
Packaging Area	S 18 "		"	3	0.09 - 0.21	A 0.14	Not Asbestos	
Cross Cut Saw on Unit #9	S 19 "		"	3	0.11 - 0.16	M 0.16	Not Asbestos	
Packaging Area on Unit #12	S 20 "		"	3	0.12 - 0.22	A 0.16	Not Asbestos	
Cupola for Unit #12 in Fire Room	S 21 "		"	3	0.18 - 0.28	A 0.23	Not Asbestos	
Portable Slitter Saw	S 22 "		"	3	0.35 - 0.46	M 0.44	Not Asbestos	
Take-off on Unit #12	S 23 "		"	3	0.10 - 0.15	M 0.13	Not Asbestos	
FLOOR TILE								
Vibrator on Floor Tile Machine	S 11 FT		"	3	0.33 - 0.41	A 0.37	0.00 - 0.00	A 0.00
Punch Press	S 12 "		"	3	0.22 - 0.75	A 0.40	0.00 - 0.00	A 0.00
#5 Charging Chute	*S 13 "		"	3	5.63 - 6.82	*A 6.15	0.08 - 0.14	A 0.11
#5 Charging Chute	S 13 "		Eval.	3	2.57 - 3.73	M 3.36	0.09 - 0.11	A 0.10
Weighing Station	*S 14 "		Prelim.	3	5.47 - 7.57	*M 6.84	0.24 - 0.33	A 0.26
Weighing Station	*S 14 "		Eval.	3	6.72 - 7.74	*M 7.53	0.21 - 0.24	A 0.22
Rework Chute	S 15 "		Prelim.	3	1.12 - 1.35	M 1.30	0.00 - 0.03	M 0.03
Bet. #2 & #3 Charging Chutes	S 16 "		"	3	2.86 - 3.17	M 3.07	0.05 - 0.08	A 0.06
Weighing Station	S 17 "		"	3	3.31 - 3.50	M 3.45	0.05 - 0.07	M 0.07
Pigment Room	S 18 "		"	3	2.05 - 2.87	M 2.55	Not Asbestos	
Return Scrap Conveyor	S 19 "		"	3	0.99 - 1.09	M 1.06	0.00 - 0.02	M 0.02
West Charging Hopper	S 20 "		"	3	10.81 - 12.08	A 11.26	Not Asbestos	
East Charging Hopper	*S 21 "		"	3	79.75 - 210.52	*A 139.69	Not Asbestos	
Take-off Table	S 22 "		"	3	0.25 - 0.51	A 0.35	0.00 - 0.00	A 0.00

Asterisk - Stations requiring control.
Preliminary - Study to identify problem areas.
Evaluation - Study pending completion of corrective action.
Follow Up - Study subsequent to completion of corrective action.
Audit - Periodic study to check control.
Med./Avg. - Median or Average - whichever is higher.
Neg. - Negligible.

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Atmospheric Hygiene Studies
Dec. 1958 -thru- June 1959
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SALVAGE	Station Number	Former GPEB Sta. No.	Present Status	No. of Counts Taken	Particle Count Range	Particle Med./Avg.	Fibre Count Range	Fibre Med./Avg.
Baler in Salvage Dept.	*S 1 BAR		Prelim.	3	28.81 - 112.47	*A 61.98	1.78 - 6.60	*A 3.89

Asterisk - Stations requiring control.

Preliminary- Study to identify problem areas.

Med./Avg. - Median or Average - whichever is higher.

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