Manville
October 17, 1944

[redacted]

P. D. Cannon

The Colonial Sugar Refining Co., Ltd.
Sydney, Australia - Blue Fibre

The three samples of Australian blue fibre have been examined and the Grade #3 compared with African MS Blue. Grade #1 crude contains a large percentage of fibre lengths varying from 1-1/8 to 1-3/4 inches. This fibre is clean and free from rock. After opening in our laboratory opener the fibre is fluffy and would appear suitable for use in textiles.

Grade #2 crude is shorter than the #1 grade. It does not contain fibre in the lengths of 1-1/8 to 1-3/4 inches. The longest fibres are 1 inch with the bulk around 1/2 to 3/4 inches in length. This fibre contains approximately 2% rock. It can be opened easily so that a large percentage of fibre will appear on the largest screen opening.

Grade #3 crude contains longer fibre than MS Blue. Approximately 6% of the crude is 1 inch and longer, while the MS Blue crudes do not usually measure over 3/4 inch in length. The wet screen test shows that the Australian #3 has 14% more fibre on the +14M screen than the MS Blue. The MS Blue also contains approximately 2 to 3 times more fines -200M than the Australian Blue. If the Australian Blue could be used in place of MS Blue, it is cleaner and would give a greater fibre value for the money invested. A plant trial on this fibre would be recommended if the price is comparable to MS Blue.

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Colonial Sugar Refining Co. Ltd.

	U.S. Test 2M oz	U.S. Test 4M oz	U.S. Test 10M oz	U.S. Test Pan oz	Air Analysis Fibre %	Air Analysis Dust %	Air Analysis Rock %	Wet Screen Test +14M %	+28M %	+100M %	+200M %	-200M %	Crudy %+14M	Density #/cu Ft Loose	Density #/cu Ft Ptd.
Grade #1 - As Rec.	5.30	9.80	0.75	0.15	97.4	2.0	0.6	96.4	0.8	1.3	0.6	0.9	93.4	6.9	11.7
Opened*	15.50	0.15	0.25	0.10	98.8	0.8	0.4	82.2	2.0	3.8	2.1	9.9	71.6	0.9	3.3
Grade #2 - As Rec.	3.60	7.80	3.85	0.75	92.8	5.4	1.8	91.4	1.0	1.4	0.6	5.6	88.1	7.5	10.1
Opened*	14.50	0.25	0.95	0.30	96.8	1.8	1.4	80.7	2.6	4.0	2.1	10.6	78.5	2.5	5.5
Grade #3 - As Rec.	1.60	6.50	6.65	1.25	95.3	1.9	2.8	86.5	3.0	3.0	1.7	5.8	79.0	8.1	11.2
Opened*	9.00	1.90	4.25	0.85	96.7	1.4	1.9	84.4	3.0	3.3	1.9	7.4	77.5	3.7	6.7
MS Blue - As Rec.	0.50	7.80	5.70	2.00	88.3	8.6	3.1	67.1	6.5	5.3	3.2	17.9	57.3	8.6	12.8
Opened*	12.30	0.95	2.00	0.75	91.7	4.5	3.8	70.1	5.3	5.1	1.9	17.6	58.9	2.6	5.1

	Ro-Tap - 50 G/3 Min 1.050M %	.742M %	.525M %	.371M %	3M %	4M %	6M %	8M %	10M %	20M %	35M %	Pan %
Grade #1 - As Rec.	2.40	1.24	14.60	38.82	14.48	22.30	3.84	1.26	0.28	0.36	0.18	0.24
Opened*	97.88	1.34	0.24	0.04	0.04	0.10	0.10	0.04	Tr	0.12	0.04	0.06
Grade #2 - As Rec.	0.30	2.36	5.90	8.04	19.34	21.40	20.54	7.10	4.46	3.70	1.16	2.70
Opened*	81.00	2.10	2.82	1.04	1.90	1.74	2.74	1.60	1.90	1.60	0.66	0.90
Grade #3 - As Rec.	0.0	2.20	1.10	24.20	7.44	13.32	20.62	7.50	9.64	9.00	1.98	2.30
Opened*	16.36	15.24	20.90	10.64	4.40	7.04	7.90	2.58	5.74	7.04	1.08	1.08
MS Blue - As Rec.	-	-	-	34.84	12.34	11.30	8.86	8.90	7.18	9.76	3.68	3.14
Opened*	20.68	26.20	10.40	11.78	3.24	3.50	4.60	2.50	4.70	6.70	2.74	2.96

	Approximate Length Measured by Ruler 1/8" %	1/4" %	3/8" %	1/2" %	3/4" %	7/8" %	1" %	1-1/8" %	1-1/4" %	1-1/2" %	1-3/4" %
Grade #1 - As Rec.	-	1.6	-	7.6	6.2	9.4	42.2	9.4	11.2	7.6	4.8
Grade #2 - As Rec.	-	4.0	-	49.0	23.0	3.0	21.0				
Grade #3 - As Rec.	-	39.0	13.0	30.0	12.0	-	5.0		1.0		
MS Blue - As Rec.	24.0	27.0	18.0	28.0	3.0						

* Five passes through Sprout Waldron to obtain maximum opening.

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