FILE NAME: Colonial Sugar Refinery (CSR)

DATE: 1958 May 22

DOC#: CSR126

DOCUMENT DESCRIPTION: Govt Memo RE Dust Nuisance at Wittenoom Mill with Air Measurements

48

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GOVERNMENT OF WESTERN AUSTRALIA

M.D. 12

Memorandum

MINES DEPARTMENT,

Wittenoom 22nd May '58

To The Senior Inspector of Mines

KALGOORLIE

re: Dust nuisance - Wittenoom Mill

Yesterday I made an inspection of all current underground working places of the Colonial Mine and then examined the mill building.

The modifications recommended in my earlier report have been adopted and the mill atmosphere has never been better than it was yesterday. All sections of the plant appeared to be working to capacity so there seems every reason to expect that the existing conditions can be maintained. Mr.Allen was quite happy to have at last got the dust problem within the limits of control and the atmosphere is sufficiently clear to bring to immediate notice any faults in the collecting system. Some of the modifications were tried out with temporary fittings. These will now be replaced with permanent attachments.

DISTRICT INSPECTOR OF MINES.CUE.

PLAINTIFF'S EXHIBIT 103000

PENGAD-Bayonne, N.J.

(47)

AIR MEASUREMENTS - A.B.A. LTD. - 28.5.58. (46

No.4 level

Intake = 19,425 c.f.m.
Air flowing N. N. of 415 Manway = 10,000 c.f.m.
Air flow S. of 41 N. Manway = 9,400 c.f.m.
Air downcast through serviceway = 600 c.f.m.
Airflow up No.4 Turnout = 810 c.f.m.
Airflow N. of 41 N. Manway = 1250 c.f.m.

On ventilating face of No.4 level north drive. Volume = 2,550c.f.m.
Upcast through 42 N. Manway = 3,800c.f.m.

No.3 level

Intake = 33,600 c.f.m.
Airflow up No.3 Turnout = 3,050 c.f.m.

No.2 level

Leakage in through door = 450 c.f.m.
Air flowing S. N of 6010 Manway = 3,520 c.f.m. This volume is upcast from Main incline through Serviceway.
Airflow up No.2 Turnout = 6,560 c.f.m. - flows N.

No.1 level

Flowing S. past charging station and through door to gorge is 800c.f.
Upcast from Main incline through Serviceway = 5,400c.f.m. Flows S
Airflow up No.1 Turnout = 8,000cfm.

Measured intake through No.1 Adit (Main incline) = 19,320c.f.m. (This figure appears low and may have been measured when door at No.2 lev was open.

Measured Exhaust through 60" A.F. fan = 76,125 c.f.m.

Remarks

It appears that 8000c.f.m. along No.1 Turnout and 6,560 c.f. along No.2 Turnout is being short circuited to the exhaust. Couldn't doors be placed in these turnouts to stop this short circuiting? At present there is 5,400c.f.m. and 3,520c.f.m. upcasting through service to Nos. 1 and 2 levels. Probably these volumes would be increased if doors were placed in the Nos. 1 and 2 Turnouts and would be more than sufficient to ventilate current Lower Seam workings.

More air would then be made to flow down the main incline to Nos.3 and 4 levels (and later No.5 level) above which the majority of ore breaking is confined.

It is doubtful if the placing of doors as suggested would affect the mining at present proceeding in the northern end between No.2 level and the surface. This is probably ventilated by return air from Nos. 3 and 4 levels even now.

PLAINTIFF'S EXHIBIT 102990