Stratford Coal CCC Meeting

Presentation – Company Report & Overview of Activities

May 2023

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Mining 1st Quarter 2023

	Total Waste (BCM)	ROM (T)	Product Coking (T)	Product Thermal (T)
Q1 2023	1,003,105	252,438	51,555	90,425

Note: Total Waste BCM includes mine rehandle

- Mining in Avon North continued during the quarter. Day and evening shift.
- Backfilling of Roseville West Pit continued in Q1 2023 with most waste taken to this pit.
- Minor BRN backfilling has continued during the quarter.



2. Environmental Reporting & Regulators

Management Area	Project	Status
Reporting	 Stratford Mining Complex Annual Review 2022 Stratford Mining Complex Annual Biodiversity Report 2022 	 The Stratford Mining Complex 2022 Annual Review has been prepared and submitted to DPE and other regulators in March 2023. Once approved, the 2022 Annual Review will be distributed to the CCC members and will be made available on the Stratford Coal website The Stratford Mining Complex 2022 Annual Biodiversity Report has been completed. The Annual Biodiversity Report has been included in the 2022 Annual Review.
	 EPBC Approval Annual Compliance Report 	 The EPBC 2022 Annual Compliance Report has been prepared and submitted in March 2023. The report is available on the Stratford Coal website.
	 Resources Regulator Rehabilitation Reform 	 Stratford prepared and submitted data for the first annual Forward Program and Annual Rehabilitation Report to the Resources Regulator. The forward Program and Annual Rehabilitation report will be available on the Stratford Coal website once generated by the Resources Regulator online portal.
Regulator	 Environmental Management Plans 	 SCPL has completed revisions of the Stratford Environmental Management Plans to reflect the current status of the SMC. Approved plans have been made publicly available on the Stratford Coal Website.



3. Environmental Management Plans & Monitoring

- a) Air Quality Management
- b) Blast Management
- c) Noise Management
- d) Water Management
- e) Rehabilitation Management
- f) Biodiversity Management

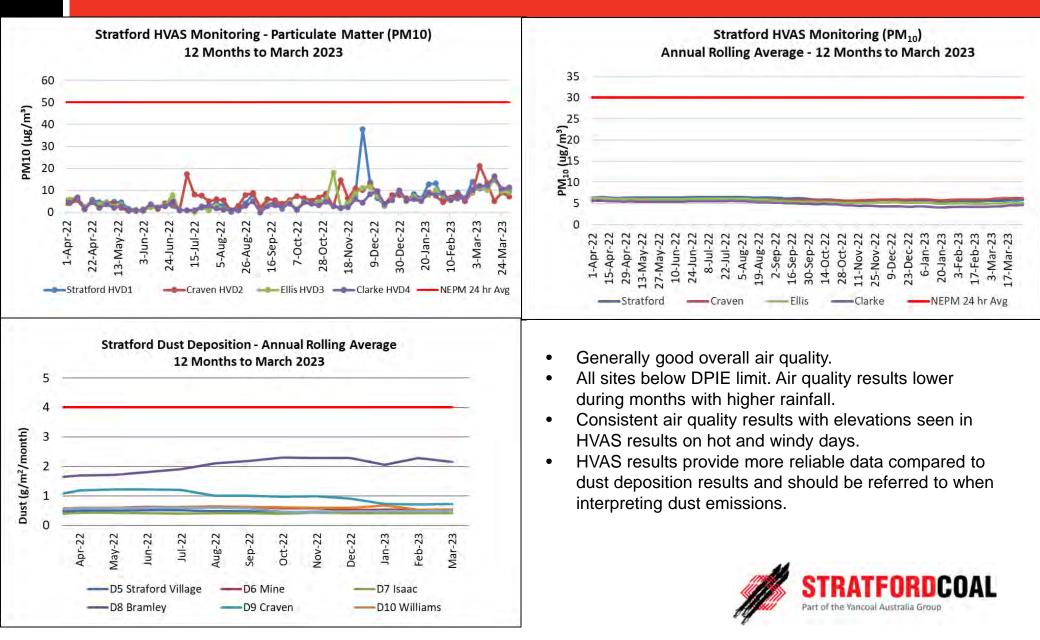


3a. Air Quality Management

Management Area	Project	Status
Air Quality Monitoring	 Real-time air quality monitoring 	 The real-time air quality TEOM monitors in Stratford and Craven villages continue to operate. General ambient PM10 dust levels have been very low throughout Summer/Autumn due to persistent rainfall. The real-time air quality management system analyses monitoring data from the TEOM units and records times when the air quality criteria is likely to be exceeded. The system will then provide alarms to staff to implement additional dust mitigation measures where required. No triggers have been received relating to mining operations.



3a. Air Quality Management



3b. Blast Management

Management Area	Project	Status
Blasting	 Blast Monitoring Blast Results Blasting Preparations 	 Blasting activities continued in Avon North Pit. For the current annual reporting period there have been no blast exceedances (<i>No more than 5% of total blasts allowed to exceed the 115dbl</i>). No blasts exceeded the 5mm/s during the quarter. For the annual reporting period no blasts have exceed 5mm/s. Blast notifications have continued. Additional recipients have been added to the notification list on request.
Building Inspections	 Baseline condition inspections 	None requested.



Date	Time		: (B1) <u>32</u>		ge (B2) <u>41</u>		s (B6) <u>34</u>		wood <u>22</u>	owi 74	35) (Mine- ned) 3 <u>33</u> sly 7377)	Overpres sure Site Exceedan ce ¹	Ground Vibration Site Exceedan ce ¹	Blasts
Friday, 6 January 2023	12:47:24	0.27	83.6	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	28
Thursday, 12 January 2023	12:40:55	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.86	102.8	0.00%	0.0%	29
Friday, 20 January 2023	12:43:51	0.25	89.6	0.25	80.7	<0.24	102.2	<0.24	<114	1.08	106.6	0.00%	0.0%	30
Monday, 30 January 2023	12:36:41	0.25	83.6	<0.24	<114	<0.24	<114	<0.24	<114	0.64	107.5	0.00%	0.0%	31
Friday, 10 February 2023	10:08:34	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.53	105.3	0.00%	0.0%	32
Friday, 17 February 2023	12:40:41	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	1.11	106.1	0.00%	0.0%	33
Friday, 24 February 2023	12:37:02	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.32	104.8	0.00%	0.0%	34
Friday, 3 March 2023	12:30:06	0.25	83.6	<0.24	<114	<0.24	<114	<0.24	<114	0.52	107.0	0.00%	0.0%	35
Tuesday, 7 March 2023	12:48:44	0.37	87.1	<0.24	<114	0.28	107.0	0.29	86.0	1.11	114.5	0.00%	0.0%	36
Friday, 17 March 2023	12:35:15	0.32	97.5	<0.24	<114	<0.24	<114	<0.24	<114	0.94	113.6	0.00%	0.0%	37
Tuesday, 21 March 2023	12:38:23	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.27	99.3	0.00%	0.0%	38
Friday, 24 March 2023	12:40:07	0.29	97.5	<0.24	<114	<0.24	<114	0.24	86.0	0.66	106.6	0.00%	0.0%	39
Tuesday, 28 March 2023	12:40:02	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.39	106.3	0.00%	0.0%	40
Thursday, 30 March 2023	12:38:42	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.45	103.8	0.00%	0.0%	41

• Note: Blast Compliance: No more than 5% of total blasts for annual monitoring period to exceed an overpressure of 115 dBL or ground vibration of 5 mm/s. No blast is to exceed an overpressure of 120 dBL or ground vibration of 10 mm/s.

- Note: Where no trigger is recorded the results indicate <0.22mm/s and <110.0dBL corresponding to the blast monitor settings.
- Note: Blast results for Clarke are extrapolated to the next nearest non-mined owned residence.



3c. Noise Management

Management Area	Project	Status
Monitoring	 Monthly Noise Survey Sound Power Monitoring 	 Monthly attended noise monitoring rounds was undertaken during Q1 2023. No non-compliant results were recorded during the surveys. Reports will be made available on the Stratford Coal website. The next monitoring is scheduled in May 2023. Sound Power Level Noise Monitoring of the mobile plant fleet was undertaken in October 2022 and re-testing scheduled for May 2023.
Real-Time Noise	 Real-Time Noise System Noise forecast reports 	 Real-time noise monitors continue to operate near Stratford Village and Craven Village. The integrated real-time noise management system is operational. The system analyses monitoring data from the noise units, the weather station and the inversion towers and records times when either the noise criteria is likely to be exceeded or when noise enhancing weather conditions are present. The system will then provide alarms to staff to implement additional noise mitigation measures where required. Daily predicted noise and dust forecast reports are generated and are issued to the mining supervisors prior to each shift.



3d. Water Management

Management Area	Project	Status
Site Water Management	 Annual Water Balance Review 	 The 2022 Annual Site Water Balance has been prepared. A summary is included in the 2022 Annual Review and when approved be made available on the Stratford Coal website following approval.
Water Management Structures	 Avon North and Stratford East Clean Water Diversions 	 Ongoing inspections and monitoring has been completed in Q1 2023.
Surface Water Monitoring	• Routine monitoring	 Routine water sampling continued. All results consistent with the SMC Environmental Assessment predictions. Above average rainfall was received during January and March 2023 with February 2023 being the driest February since 2000. Elevated Electrical Conductivity results at Surface Water Monitoring Point W5 were observed. Deemed to be due to semi stagnation of the pools of water adjacent to the monitoring point. High TSS (Total Suspended Solids) result observed at Monitoring Point W1 in September, elevated reading observed to be a result of rain runoff from a nearby private and publicly owned land.
Groundwater Monitoring	Routine monitoring	 Routine groundwater sampling continued. All results consistent with the SMC Environmental Assessment predictions.



3d. Water Management



3e. Rehabilitation and Biodiversity Management

Management Area	Project	Status
Monitoring	 Vegetation Monitoring - Ecosystem Function Analysis 	 Rehabilitation monitoring incorporating landscape function analysis and vegetation dynamics was completed in April 2023. The results will be included in the next 2023 Annual Review.
Biodiversity Offset Area	Revegetation Planning	 Following postponement due to wet ground conditions, the 2022 Q2 planting program recommenced in April 2023. 18,880 Native Trees and Shrubs are currently being planted in offset properties near Woods Rd and Stratford Village. Additional plantings have been undertaken along Wenham Cox Rd.



Plate 1, Plants in storage to be planted into Stratford Village planting area.



Plate 2, Rip lines installed in preparation for planting at Wenham Cox Rd.



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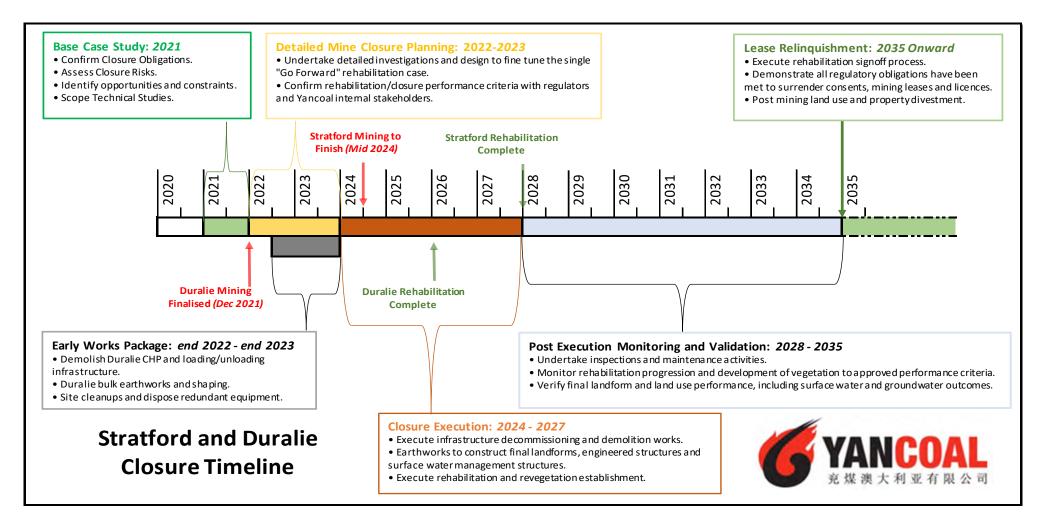
4. Mine Closure – General Information

Mine Closure Progress

- Condition 5, Schedule 2 of the SMC's Development Consent (SSD_4966) authorises mining operations to be carried at the SMC until 31 December 2025.
- Mining operations at Stratford are currently planned to be completed in approximately mid-2024 at which time the site will transition to closure.
- SSD_4966 and the Mining Leases continue to be in force until SCPL rehabilitates the site in accordance with the conditions of the Approval and MLs to the satisfaction of DPIE and the Resources Regulator.
- As the SMC progresses towards the end of its approved mine life, operations and activities at the SMC will progressively change to reflect this.
- Ongoing bulk earthworks and rehabilitation activities are planned for approx. 2-3 years following the completion of coal mining.



4. Detailed Mine Closure Planning – Closure Timeline





4. Infrastructure Decom and Demo

Early decommissioning and demolition works have commenced at Stratford:

- Duralie coal unloader and conveyors scheduled for demo completed in March 2023.
- General scrap clean up during April 2023







Images: Stratford CHPP



4. Mine Closure Planning

Note: *Refer to Stratford Rehabilitation Management Plan Appendix 1 Mine Closure Plan and Schedule. *Further detail on mine closure planning progress is included in the Annual Review 2022.

Management Area	Project	Status
Mine Closure Planning General	 Detailed Mine Closure Planning Program 	 SCPL has updated the Mine Closure Planning Program in the Stratford Mining Complex Rehabilitation Management Plan (RMP). The Mine Closure Planning Program is intended to provide a strategy and a description of all the works required to develop the Detailed Mine Closure Plan. Closure planning will continue throughout 2023.
Rehabilitation Management Plan	 Rehabilitation Management Plan, including Closure Plan 	 The RMP, including the updated closure planning program was submitted to the Resources Regulator in July 2022. The RMP was provided for consultation with the CCC. The RMP is available on the Stratford Coal website
Closure Risk Assessment	Mine Closure Risk Assessment review	 A review of the Stratford Coal Mine Rehabilitation and Mine Closure Risk Assessment was undertaken in August 2021. The outcomes of the risk assessment have been used to develop an updated actions register which forms the basis of the Mine Closure Planning Program. This will be updated again in early-mid 2023 to ensure risks have been considered in the planning process. A post closure public safety risk assessment has been undertaken.
Environmental Management Plans	EMP reviews for closure stage	 EMPs will be progressively reviewed and updated to reflect the current stage of operations and ongoing rehabilitation and mine closure requirements. EMPs will identify post-closure environmental monitoring and maintenance requirements. Post-closure monitoring and maintenance activities will continue until the specific completion criteria has been met and confirmation has been received from the relevant authority.
Stakeholder and Community	Stakeholder engagementstrategy	 Communications with the CCC regarding mine closure planning is ongoing. This presentation will continue to be updated to provide relevant information through the CCC forum. A Closure Stakeholder Engagement Strategy has been prepared. The Closure Socio-economic impact assessment has been finalised and a presentation for the CCC prepared.



4. Mine Closure Planning

Management Area	Project	Status
Final land use	 Potential final land-use planning 	 The target post-mining land uses for previously disturbed mining land are defined in the RMP and shown in Plan 1 of the RMP. SCPL is currently preparing a post-mining land use strategy and property divestment strategy for all company owned land.
Rehabilitated Landforms	 Landform design and stability 	 SCPL have prepared the detailed final landform designs for the site. These are now presented in the RMP. Further refinement based on the outcomes of the surface water and groundwater modelling will be required. Preparation of a geotechnical assessment and specifications for the final void design have continued to ensure the long-term void is safe and stable.
Water Management	Site water Balance	• SCPL will review the site water balance and final landform drainage design to ensure comparable drainage density to local natural landforms.
Final Voids	 Water management and final void water balance 	 Void closure criteria have been prepared and are detailed in the RMP. Review of the final voids site water balance models is currently being finalised to ensure the balance incorporates the updated final landform design, surface water inflows and outflows and recently updated groundwater modelling. This work is ongoing and will form an important part of the closure program.
	 Groundwater Model 	• Post-mining groundwater model verification has been finalised and the data is being used in the final voids water balance. Additional work may be required to inform the closure project at a later time.
Rehabilitation Resources	Topsoil Resources	• A topsoil stockpile update was undertaken in July 2022 and confirmed adequate topsoil is available for rehabilitation. The rehabilitation resources register will be updated throughout mining operations and closure.
Biodiversity Offset	Biodiversity Offset Integration	 Integration of the biodiversity offset strategy is a key component of the rehabilitated final land form and land use. SCPL will undertake an assessment of the SMC Biodiversity Offset Areas and Biodiversity Enhancement Areas to confirm completion of the Biodiversity Offset Strategy completion criteria and integration with the SMC rehabilitation.



5. Community Complaints - Summary

No complaints to report in Q1 2023



6. Community Programs

Management Area	Project	Status
Support Programs	Stratford Coal Community Support Program	 The 2023 Stratford Coal Community Support Program presentation night was held on Tuesday 28 March 2023 at the Avon Valley Inn. Stratford Coal has granted over \$93,300 in funding to support 22 local community organisations across Gloucester and Stroud region, aiming to make a positive difference to the community. Applications for the 2024 Community Support Program will re-open in September 2023.
	Stratford Coal Education Support Fund	 The Stratford Coal Education Support Fund (ESF) applications closed on 31 January 2023. The 2023 ESF has been finalised and the grants confirmed at the annual committee meeting in March 2023. In 2023, a total of \$36,500 has been granted to students and local businesses supporting 11 x Tertiary courses, 4 x TAFE courses and 2 x Apprenticeships.







7. Stratford Renewable Energy Hub (SREH) - Update

- Yancoal is continuing to investigate the potential for a renewable energy hub at the Stratford mine site
- Ongoing activities include:
 - Detailed Feasibility Study (FS)
 - Baseline environmental studies to inform government approvals
 - Stakeholder engagement and distribution of fact sheets
- New activities commencing this month:
 - Investigation of ground conditions including drilling
- Website and contact information:
 - www.stratfordcoal.com.au/page/SREH/
 - <u>SREH.feedback@Yancoal.com.au</u>



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