

Stratford Coal CCC Meeting

Presentation –
Company Report & Overview
of Activities

February 2024

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Environment & Community Superintendent

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1. Progress at the Mine

Mining 4th Quarter 2023

| Total Waste (BCM) | ROM (T) | Product Coking (T) | Product Thermal (T) |
|-------------------|---------|--------------------|---------------------|
| 504,087 | 235,884 | 42,019 | 131,977 |

Note: Total Waste BCM includes mine rehandle

- Mining in Avon North continued. Single excavator and truck fleet operating day and evening shift.
- Backfilling of Roseville West Pit continued.
- BRN pit used a secondary dump.



Photo: Avon North Pit, Taken January 2024.

2. Environmental Reporting & Regulators

| Management Area | Project | Status |
|------------------|--|---|
| Reporting | <ul style="list-style-type: none"> Stratford Mining Complex Annual Review 2023 Stratford Mining Complex Annual Biodiversity Report 2023 Stratford Mining Complex Annual Rehabilitation Report | <ul style="list-style-type: none"> The 2023 Stratford Mining Complex Annual Review is currently being compiled. The Annual Review 2023 will be distributed to the CCC members and will be placed on the Stratford Coal website The Annual Biodiversity report is currently being compiled. The report will be included in the 2023 Annual Review. The Annual Rehabilitation Report is currently being compiled. The report will be included in the 2023 Annual Review. |
| Regulator | <ul style="list-style-type: none"> Environmental Management Plans (EMPs) Stratford Mining Complex Forward Program | <ul style="list-style-type: none"> SCPL has prepared revised Environmental Management Plans to reflect the current status of the SMC. As the site moves into closure we will review the EMPs will be reviewed and transition into a closure focus. The 2024 Stratford Mining Complex Rehabilitation Forward Program is currently being updated for 2024. Following submission to the Resource Regulator, the Program will be made available on the Stratford Coal website. |

3. Environmental Management Plans & Monitoring

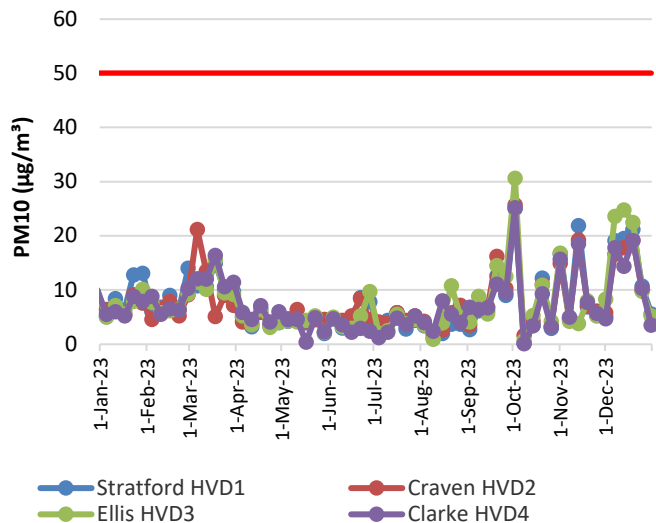
- a) Air Quality Management
- b) Blast Management
- c) Noise Management
- d) Water Management
- e) Rehabilitation Management
- f) Biodiversity Management
- g) Mine Closure Planning



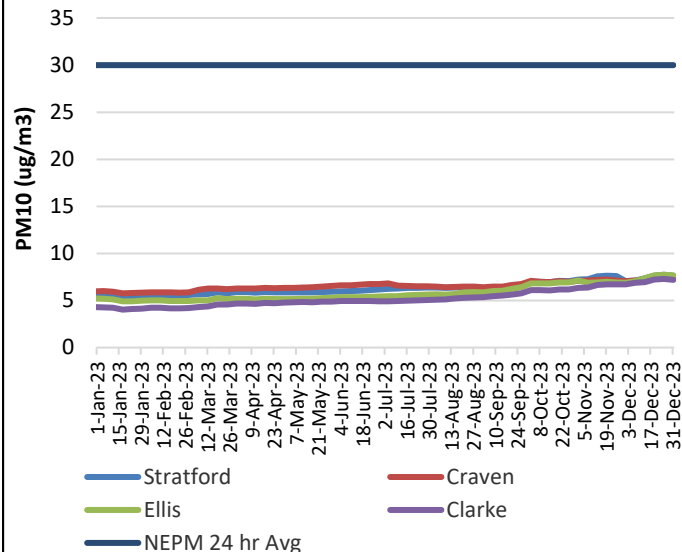
3a. Air Quality Management

| Management Area | Project | Status |
|-------------------------------|--|---|
| Air Quality Monitoring | <ul style="list-style-type: none"> Real-time air quality monitoring | <ul style="list-style-type: none"> The real-time air quality TEOM monitors in Stratford and Craven villages continue to operate. Generally good overall air quality. All sites below DPIE limit. Air quality results lower during months with higher rainfall. HVAS results provide more reliable data compared to dust deposition results and should be referred to when interpreting dust emissions. The real-time air quality management system analyses 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. |

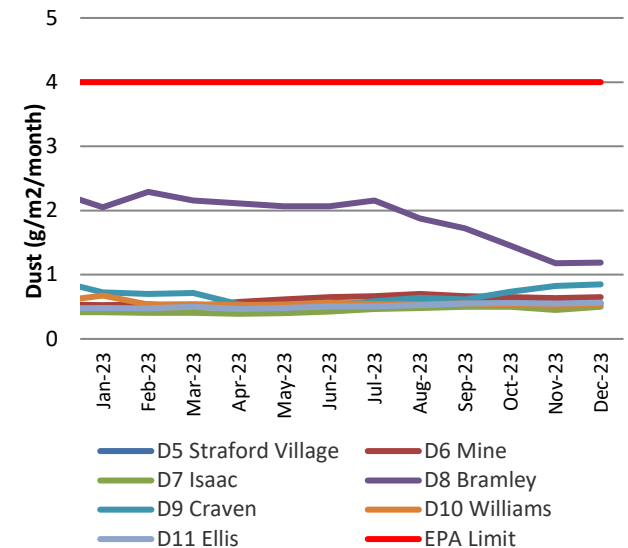
**Stratford HVAS Monitoring - Particulate Matter (PM10)
12 Months to December 2023**



**Stratford HVAS Monitoring (PM10)
Annual Rolling Average - 12 Months to
December 2023**



**Stratford Dust Deposition - Annual Rolling
Average
12 Months to December 2023**



3b. Blast Management

| Management Area | Project | Status |
|-----------------|--|--|
| Blasting | <ul style="list-style-type: none"> Blast Monitoring | <ul style="list-style-type: none"> 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 have exceeded the 5mm/s during the quarter and annual reporting period to date. |

| Date | Time | Isaac (B1) <u>7432</u> | | Ex-Judge (B2) <u>7441</u> | | Atkins (B6) <u>7434</u> | | Greenwood <u>7422</u> | | Clarke (B5) (Mine-owned) <u>7433</u> (previously 7377) | | Bagnall (Extrapolated result) | | Overpressure Site Exceedance ¹ | Ground Vibration Site Exceedance ¹ | Monitored Blasts ¹ |
|-----------------------------|----------|---------------------------|------|------------------------------|------|----------------------------|-------|--------------------------|------|--|-------|-------------------------------|-------|---|---|-------------------------------|
| | | mm/s | dBL | mm/s | dBL | mm/s | dBL | mm/s | dBL | mm/s | dBL | mm/s | dBL | % | % | |
| | 24hr | | | | | | | | | | | | | | | |
| Friday, 6 October 2023 | 12:44:09 | <0.24 | <114 | <0.24 | <114 | 0.34 | 106.2 | <0.24 | <114 | 1.51 | 116.9 | 0.97 | 112.2 | 0.00% | 0.0% | 19 |
| Tuesday, 10 October 2023 | 12:38:39 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 0.47 | 107.8 | 0.32 | 103.7 | 0.00% | 0.0% | 20 |
| Thursday, 12 October 2023 | 12:37:24 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 0.87 | 116.8 | 0.58 | 112.5 | 0.00% | 0.0% | 21 |
| Thursday, 19 October 2023 | 12:42:09 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 0.85 | 109.9 | 0.54 | 105.2 | 0.00% | 0.0% | 22 |
| Tuesday, 31 October 2023 | 12:47:58 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 0.58 | 102.0 | 0.39 | 97.9 | 0.00% | 0.0% | 23 |
| Tuesday, 14 November 2023 | 12:36:05 | 0.29 | 88.6 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 1.83 | 100.9 | 1.23 | 96.7 | 0.00% | 0.0% | 24 |
| Thursday, 23 November 2023 | 11:29:00 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 0.00% | 0.0% | 25 |
| Monday, 27 November 2023 | 12:37:35 | 0.25 | 94.7 | <0.24 | <114 | <0.24 | <114 | <0.24 | <114 | 1.85 | 97.4 | 1.23 | 93.1 | 0.00% | 0.0% | 26 |
| Wednesday, 13 December 2023 | 12:31:21 | <0.24 | <114 | <0.24 | <114 | 0.25 | 99.3 | <0.24 | <114 | 1.13 | 107.2 | 0.75 | 102.9 | 0.00% | 0.0% | 27 |

- 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

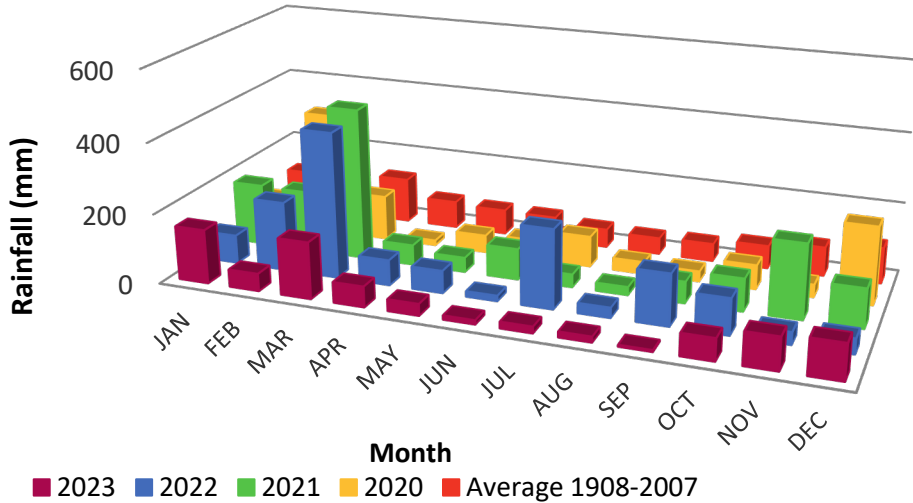
| Management Area | Project | Status |
|------------------------|--|--|
| Monitoring | <ul style="list-style-type: none"> • Monthly Noise Survey • Sound Power Monitoring | <ul style="list-style-type: none"> • Three monthly attended noise monitoring rounds were undertaken during Q4. • No non-compliant results were recorded during the surveys. Q4 reports are available on the Stratford Coal website. • The next monitoring is scheduled for February 2024. • Sound Power Level Noise Monitoring of the mobile plant fleet was completed in Q4 2024. |
| Real-Time Noise | <ul style="list-style-type: none"> • Real-Time Noise System • Noise forecast reports | <ul style="list-style-type: none"> • Real-time noise monitors continue to operate near Stratford Village and Craven Village. • The integrated real-time noise management analyses 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 provides 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

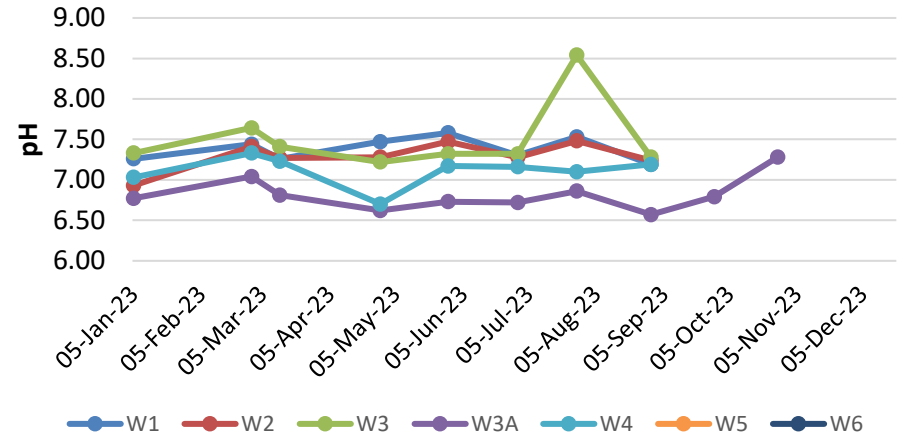
| Management Area | Project | Status |
|------------------------------------|--|--|
| Water Management Structures | <ul style="list-style-type: none">Avon North and Stratford East Clean Water Diversions | <ul style="list-style-type: none">Ongoing inspections, monitoring and maintenance have been completed in Q4 2023. |
| Surface Water Monitoring | <ul style="list-style-type: none">Routine monitoring | <ul style="list-style-type: none">Routine water sampling continued.All results consistent with the SMC Environmental Assessment predictions.Average rainfall was received during Q4 2023.High TSS (Total Suspended Solids) result observed at Monitoring Point W3 in June and August, due to rain runoff from a nearby private and publicly owned land. |

3d. Water Management

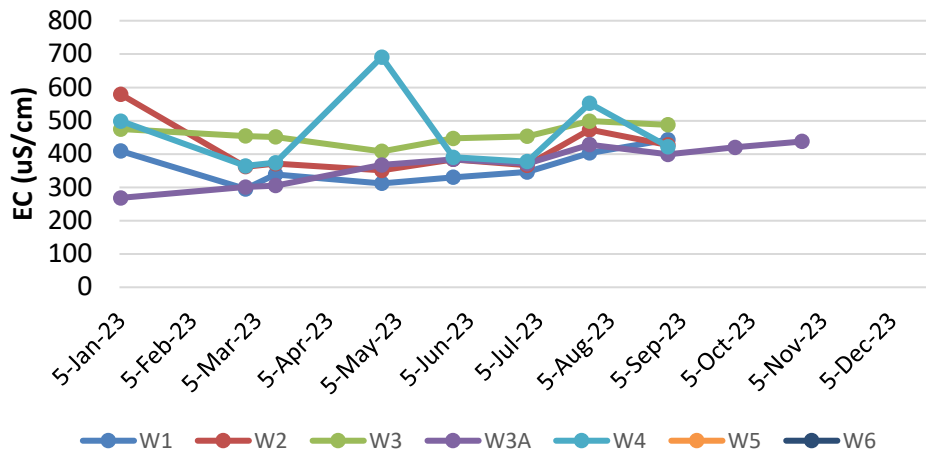
Stratford Mining Complex - Monthly Rainfall



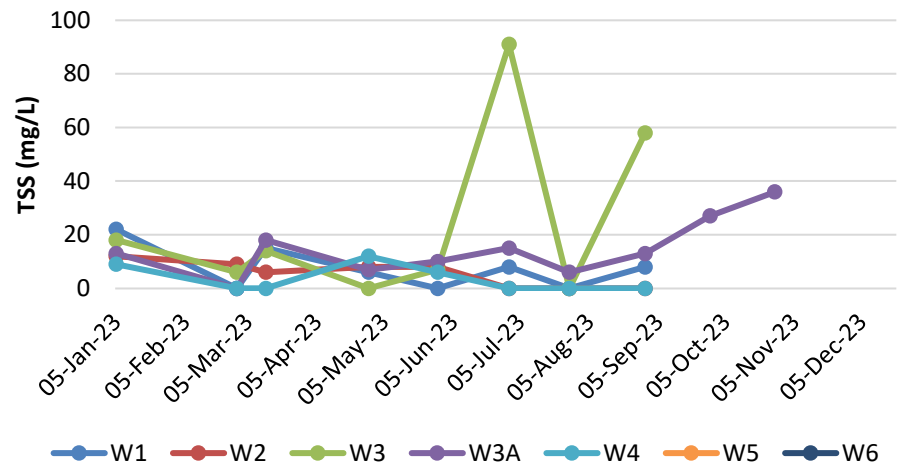
pH - Avon River and Avondale Creek 12 Months to December 2023



EC - Avon River & Avondale Creek 12 Months to December 2023

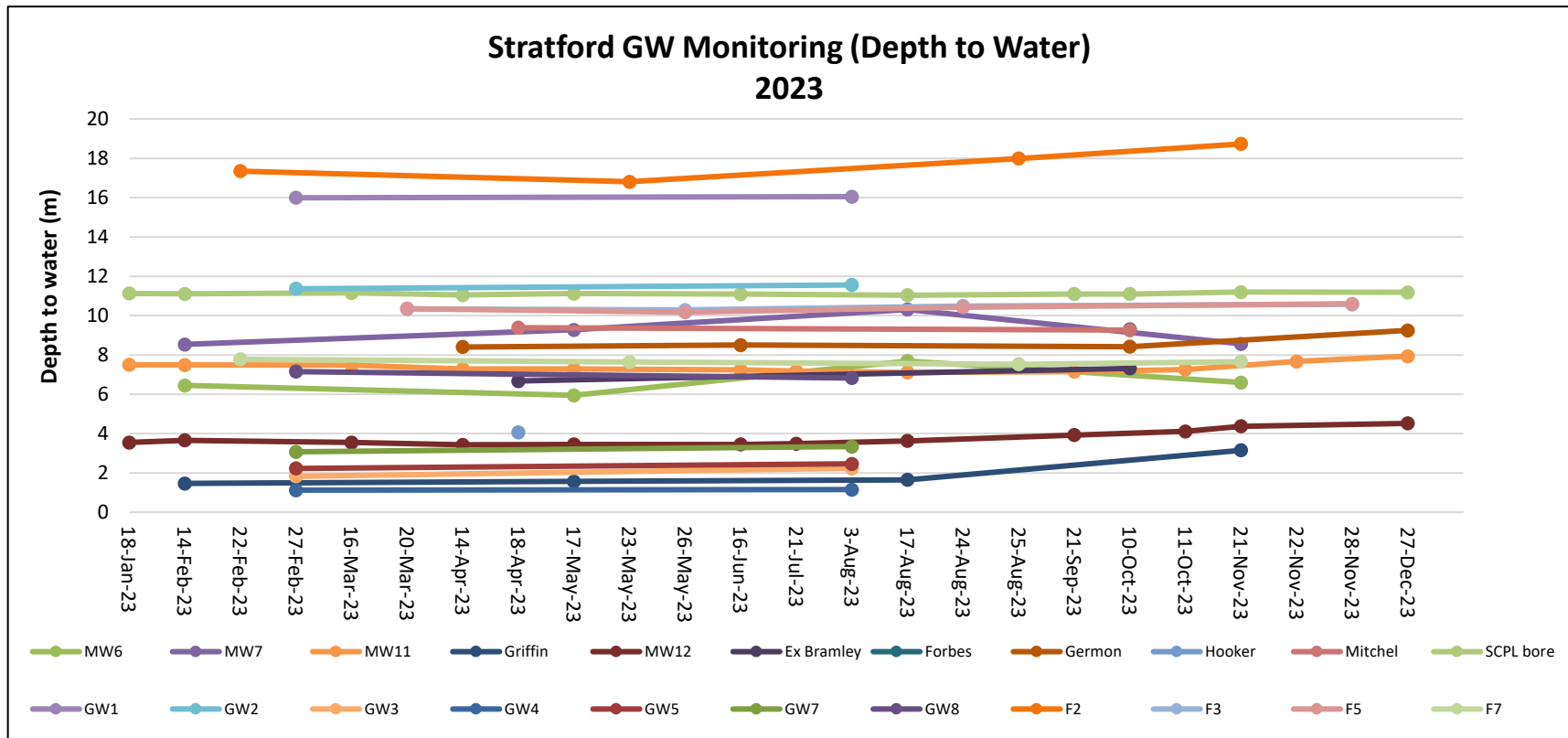


Surface Water Monitoring - TSS Avon River/Avondale Creek



3d. Water Management

| Management Area | Project | Status |
|------------------------|--|---|
| Groundwater Monitoring | <ul style="list-style-type: none"> Routine monitoring | <ul style="list-style-type: none"> Groundwater monitoring data from the Stratford Project bores demonstrates no significant or measurable change in water table level or groundwater quality that could be attributed to the mining activities across the SMC. During 2023 Groundwater levels remained consistent. |



3e. Rehabilitation Management

| Management Area | Project | Status |
|---|---|---|
| Rehabilitated Waste Emplacements | <ul style="list-style-type: none"> Backfilling and bulk-shaping | <ul style="list-style-type: none"> Backfilling in Roseville West Pit and Bowens Road North has continued in Q4 2023. |
| Monitoring | <ul style="list-style-type: none"> Vegetation Monitoring - Ecosystem Function Analysis | <ul style="list-style-type: none"> Rehabilitation monitoring incorporating landscape function analysis and vegetation dynamics was completed in April 2023. A summary of the results will be included in the 2023 Annual Review. |



Plate 1: Roseville West Waste Emplacement. January, 2023.



Plate 2: Bowens Road North Pit Waste Emplacement. December, 2023.



3f. Biodiversity Management

| Management Area | Project | Status |
|---------------------------------|---|--|
| Biodiversity Offset Area | <ul style="list-style-type: none"> Revegetation Planning Revegetation Works | <ul style="list-style-type: none"> Three-year revegetation planting and infill plan has been completed. Native seed supply has been arranged and tubestock is currently being propagated by the nurseries. Approximately 3400 plants planted into four areas to complete revegetation in the Biodiversity Offsets and Biodiversity Enhancement Areas. |
| Nest Box Program | <ul style="list-style-type: none"> Nest Box Monitoring | <ul style="list-style-type: none"> Nest box monitoring was completed in Q4 2023 in the Stratford Biodiversity Offset and Enhancement areas. Annual Nest Box monitoring has found 93% of nest boxes were either occupied or showing signs of occupancy after approximately 3 years. |
| Weed Control | <ul style="list-style-type: none"> 2023/24 SMC Weed Control Program | <ul style="list-style-type: none"> 2023/24 Biodiversity Offset Weed Control Program continued to target areas including Biodiversity offset areas, SMC operational areas and minor agricultural areas targeting Blackberry, Crofton weed, Tobacco bush, Privet and Lantana. Comprehensive weed mapping and construction of targeted action plan is underway in the Biodiversity offsets. |



Plate 3: Squirrel Gliders in nest box. October 2023.

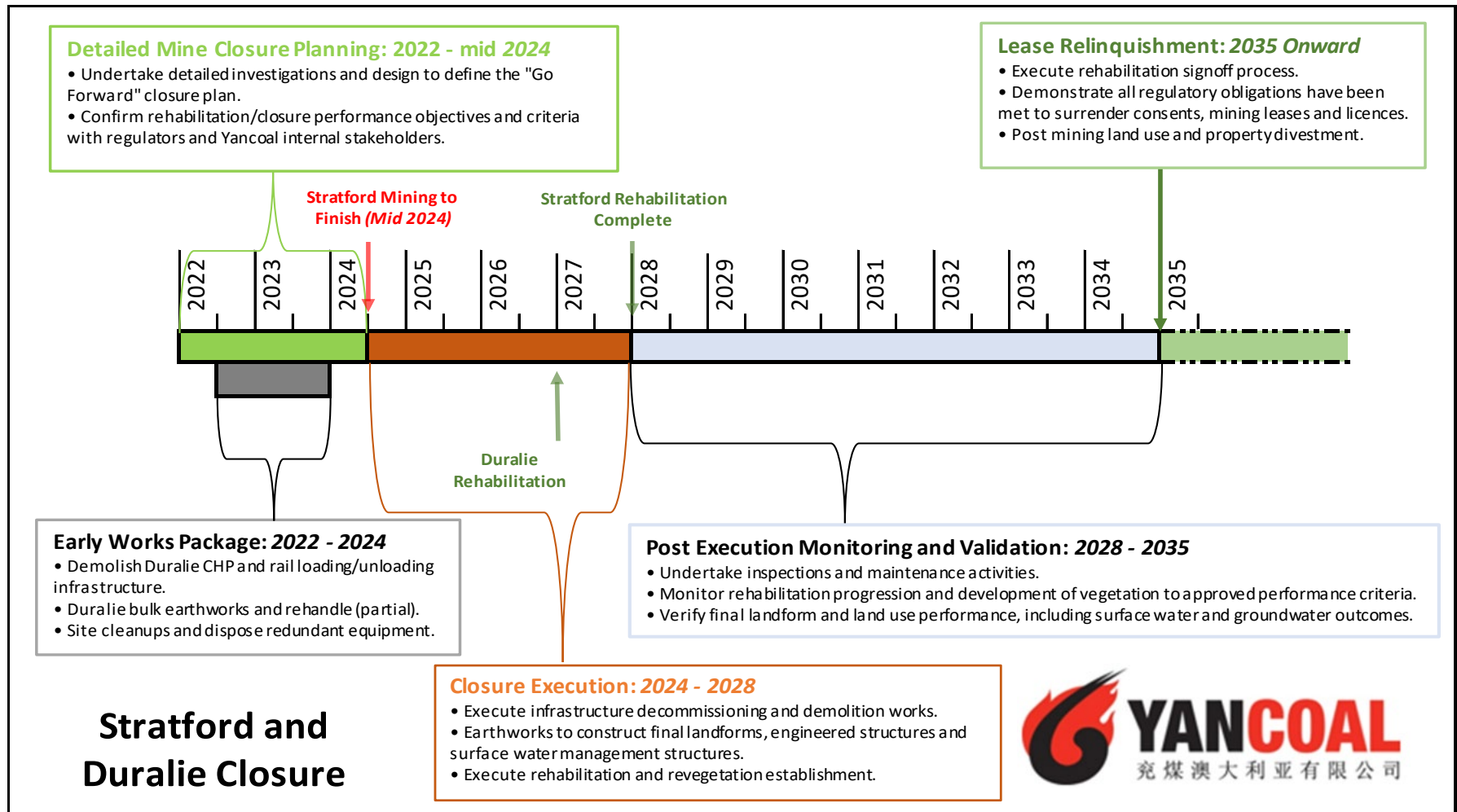
4. Mine Closure – General Information

Mine Closure Progress

- Detailed Mine Closure Studies is expected to be completed mid-2024.
- Final Landform Rehabilitation Plan will be updated following completion of internal Detailed Mine Closure Plan.
- Detailed Mine Closure Plan will inform closure execution works.
- Ongoing bulk earthworks and rehabilitation activities following the completion of coal mining are planned until approximately 2028.

Consent (SSD_4966) and Mining Leases continue to be in force until the site is rehabilitated to the satisfaction of DPIE and Resources Regulator.

4. Detailed Mine Closure Planning – Closure Timeline



4. Mine Closure – Transition to Closure

Focus for 2024

- Revise Final Landform Rehabilitation Plan based on Detailed Mine Closure Studies
- Finish coal extraction and processing in Mid-2024
- Rehandling and reshaping
 - Use current excavator, supported by trucks and dozers.
 - Rehandle utilises excavator and truck fleet after last coal.
 - Expected to take until approximately end of 2027.
- Rehabilitation
 - Progressive rehabilitation as areas become available.
- CHPP
 - Continues until last coal.
 - Currently for sale.
- Other
 - Augmentation design and construction works to enable decommissioning works.

4. Mine Closure Planning

| Aspect | Status |
|---|--|
| General | <ul style="list-style-type: none"> • Detailed Mine Closure studies currently expected to be completed mid 2024. • On-going iterations to optimise landform outcomes. • Detailed Mine Closure Planning will inform closure execution works. |
| Rehabilitation | <ul style="list-style-type: none"> • The Rehabilitation Management Plan (RMP) is available on the Stratford Coal website. • Yancoal and the Resources Regulator acknowledge that the currently proposed landforms may change as the closure planning program evolves. • Final Landform and Rehabilitation Plans (FLRP) will be revised following completion of Detailed Mine Closure Plan. |
| Environmental Management Plans, Monitoring & Maintenance | <ul style="list-style-type: none"> • Approved EMPs are publicly available on the SMC website. • EMPs will be progressively reviewed and updated to reflect the stage of operations and closure works. • 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. |
| Stakeholder and Community | <ul style="list-style-type: none"> • Communications with the workforce, CCC and other stakeholders will continue throughout closure. • Closure updates to the CCC will continue to be provided. • Community Support Program to prioritise community socio-economic transition projects. |

4. Mine Closure Planning

| Aspect | Status |
|------------------------|---|
| Final land use | <ul style="list-style-type: none"> The target post-mining land uses are agricultural grazing, native vegetation and water bodies Land uses are shown and defined in the RMP. |
| Final Landforms | <ul style="list-style-type: none"> Landform refinements are continuing as part of the on-going mine closure planning. Refinements are iterative, consider mine planning, landform stability, landscape evolution modelling, geochemistry and water management. Final Landform Design revisions will be included in future FLRP revisions. |
| Final Voids | <ul style="list-style-type: none"> Final void design refinements are continuing. Void water modelling iterations are being undertaken considering external drainage, landform refinements and groundwater predictions. |
| Water | <ul style="list-style-type: none"> Water management and water balance modelling is progressively being revised for rehabilitation and post rehabilitation phases. Considerations include water storages, water diversions, drainage construction, rehabilitation sequencing and erosion and sediment control. Geotechnical assessments laboratory analysis completed. Design work is progressing based on this data. |
| Infrastructure | <ul style="list-style-type: none"> Options for sale, reuse and recycling of resources and infrastructure are being investigated. Staged decommissioning and demolition planning is in progress. CHPP for sale. Infrastructure will be progressively decommissioned where not required to support closure works. Infrastructure to be retained will be subject to approval by the Resources Regulator. |



5. Community Complaints - Summary

- No complaints to report in Q4 2023



6. Community Programs

| Management Area | Project | Status |
|------------------|--|--|
| Support Programs | Stratford Coal Community Support Program (CSP) | <ul style="list-style-type: none"> • Since 2010, Stratford Coal has granted over \$930,000 to local community groups. • 26 local community groups have been granted support as part of the 2024 CSP funding round. • The CSP is a voluntary initiative and will continue to run until approximately 2028. • The CSP will prioritise projects that support the community's socio-economic transition. |
| | Stratford Coal Education Support Fund | <ul style="list-style-type: none"> • The 2024 Stratford Coal Education Support Fund applications closed on 30 January 2024. The committee will review all applications and successful applicants will be notified in Q1 2024. |



Plate 4: Gloucester Junior Magpies Under 11 Rugby League team in their jerseys supported in the CSP



Plate 5: Booral Rural Fire Service and the station upgrades funded by the CSP.

Stratford Renewable Energy Hub (SREH) - Update

- Yancoal is continuing to investigate the potential for a renewable energy hub at the Stratford mine site. This is one of a number of post-mining land use opportunities.
- Ongoing activities include:
 - Detailed Feasibility Study (FS)
 - Environmental studies to inform a future Environmental Impact Statement (EIS)
 - Drilling to investigate ground conditions
 - Engaging with stakeholders including a social impact assessment to be included with the EIS
 - Commencing the approval process
- More information:
 - www.stratfordcoal.com.au/page/SREH/

OUR PATH TO TRANSITION
Focused on Australian futures

STRATFORD & DURALIE UPDATE November 2023

- **WHAT'S HAPPENING AT STRATFORD**
After over 25 years of operation, mining at Stratford is expected to finish by the end of 2024.
Detailed mine closure planning is underway to prepare for closure.
It will take time to rehabilitate the site after mining, providing ongoing employment opportunities. Rehabilitation is anticipated to take around four years to complete, which will be followed by 10 years of monitoring and maintenance to achieve final rehabilitation sign-off.
- **WHAT'S HAPPENING AT DURALIE**
Mining operations at Duralie finished in 2021 and the site has transitioned to closure.
Early closure works, such as infrastructure decommissioning, have commenced while detailed mine closure planning is underway.
Rehabilitation activities will ramp up once this planning is complete.
- **COMMUNITY SUPPORT PROGRAM**
Yancoal funds local projects and initiatives that have the potential to make a positive difference in the community. Our **Community Support Program (CSP)** is focused on benefitting a wide range of community needs and activities in areas such as education, the environment, health services, infrastructure, the arts and leisure, and cultural heritage.
Applications for the Stratford and Duralie 2024 Community Support Programs recently closed and **successful applicants will be announced in December.**

Yancoal is proud to be investing into local and regional Australia, helping build stronger communities across the country.

Turning change into Opportunity
Yancoal is continuing to investigate **post-mining land use opportunities** for Stratford and Duralie that would benefit local communities and the environment.
One of the more progressed opportunities is to establish a **renewable energy hub** at Stratford following the completion of mining.

Find out more about the Stratford Renewable Energy Hub (SREH)

ENERGY HUB Fact Sheet April 2023
...create a sustainable long-term business. The energy hub after mining has ended, which could...

IS PUMPED HYDRO CRITICAL TO THE SITUATION TO RENEWABLE ENERGY?
Australian Energy Market Operator (AEMO) has stated that the closure of coal-fired power stations in the country is likely to lead to considerable shortfalls after 2028.
As this electricity shortfall and supplementing out intermittent renewable energy long duration energy storage is needed.
Hydro Energy Storage has been endorsed by the NSW Government as one of the most and reliable forms of long duration energy because it delivers dispatchable power at high demand and low supply.
Government has also set a target of building one or two Giga Watts (GW) of long duration storage by 2030. SREH would represent 15% of that.

Developed within the anticipated timeframe, SREH could play a key role in providing electricity to offset future energy shortages identified by AEMO and the NSW Government.

Yancoal will continue to consult with the community, Council, Government agencies and other key stakeholders as the Project progresses.

The Stratford Mining Complex's proximity to existing electricity transmission infrastructure and demand centres, its expansive landholding and the topography make it an ideal location for a renewable energy hub.

YANCOAL AUSTRALIA



Stratford Renewable Energy Hub (SREH) - Update

- Submission of Scoping Report and Request for SEARS:
 - A Scoping Report for the Project has been submitted to the Department of Planning. This commences the NSW environmental planning process
 - After reviewing the Scoping Report the Department will provide the Secretary's Environmental Assessment Requirements (SEARs) to be considered in the Project EIS
 - The Scoping Report is available on the Department's website – a copy has been included on the SREH website (www.stratfordcoal.com.au/page/SREH/)
- The proposed Project concept includes:
 - Up to 12 hours of pumped hydro energy storage with a capacity of up to 3.6 GWhrs
 - 330 MW behind the meter solar facility

