

# Chain Valley and Mannering Collieries

Combined Community Consultative Committee  
Meeting Presentation  
18<sup>th</sup> August 2021



# AGENDA



- 1. Welcome and apologies**
- 2. Declarations of interest**
- 3. Confirmation of previous minutes**
- 4. Business arising**
- 5. Correspondence**
- 6. Operational Update**
- 7. Approvals Update**
- 8. Environmental Performance**
- 9. Environmental Projects**
- 10. Site Rehabilitation**
- 11. Next meeting**

# WELCOME AND APOLOGIES



## **Apologies:**

- Ian Carr (community)
- Andrew Whitbourne (community)
- Emma Benson (Central Coast Council)

## **Declaration of interests**

## **Confirmation of previous minutes**

# ACTIONS / BUSINESS ARISING FROM PREVIOUS MINUTES



## ACTIONS / BUSINESS ARISING FROM PREVIOUS MEETING

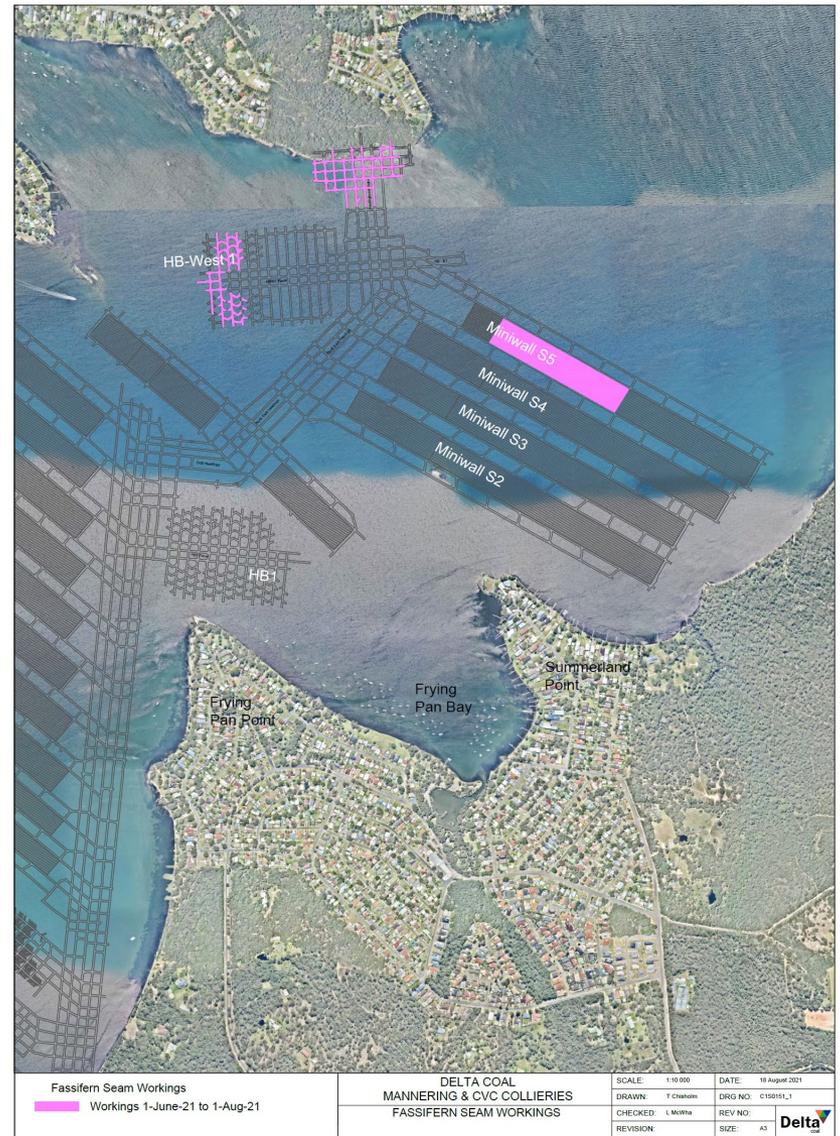
| Action / Business Arising  | Action Owner | Update  |
|--|--------------|---|
| BB noted Delta Coal had bought part of a Myuna Colliery mining lease – heard on ABC radio. | LM           | Partial transfer of ML1632 to ML1785 was granted in May. Discussed further on slide 8.  |
| Proposed June Newsletter   | LM           | To be further discussed.  |
| Provide proposed first workings Map for eastern workings.                                  | LM           | First workings plans for eastern mining area have not yet been finalised yet. The proposed area of working is shown on slide 9. |
| CVC and MC Rehabilitation Plans  | LM           | Subsection of this presentation to address site rehabilitation plans – end of presentation.                                     |
| Mal Yule officially replacing Dave McLean on CCC.  | MMH          |   |

Correspondence since previous meeting:

- 25/05/2021 – CA email to LW attaching locational map of proposed Eastern Mining Extension, outlining this was below the areas of Gwandalan and Summerland Point.
- 08/06/21 – MMH email to DPIE on Delta Coal representation on CCC

# OPERATIONAL UPDATE

- Mining production areas are currently under Lake Macquarie, with works commencing in August 2021 under Morisset Peninsula as shown in the adjacent figure.
- Miniwall S5 completion scheduled in August 2021 with no further long wall mining forecasted.
- Forecast coal production for FY20/21 is 1.5Mt.

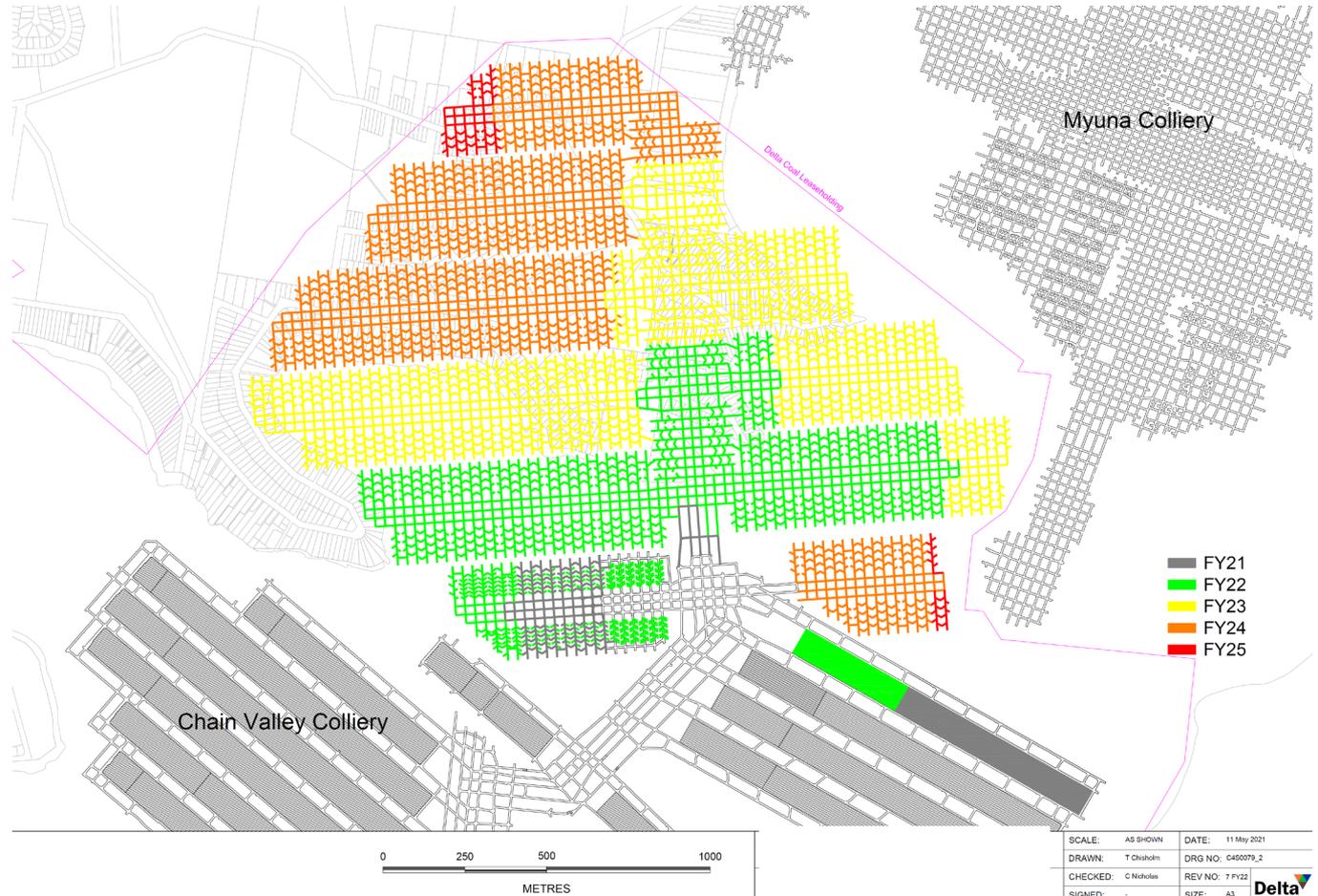


Above: Workings 1 June 2021 to 1 August 2021

# PRODUCTION FY21



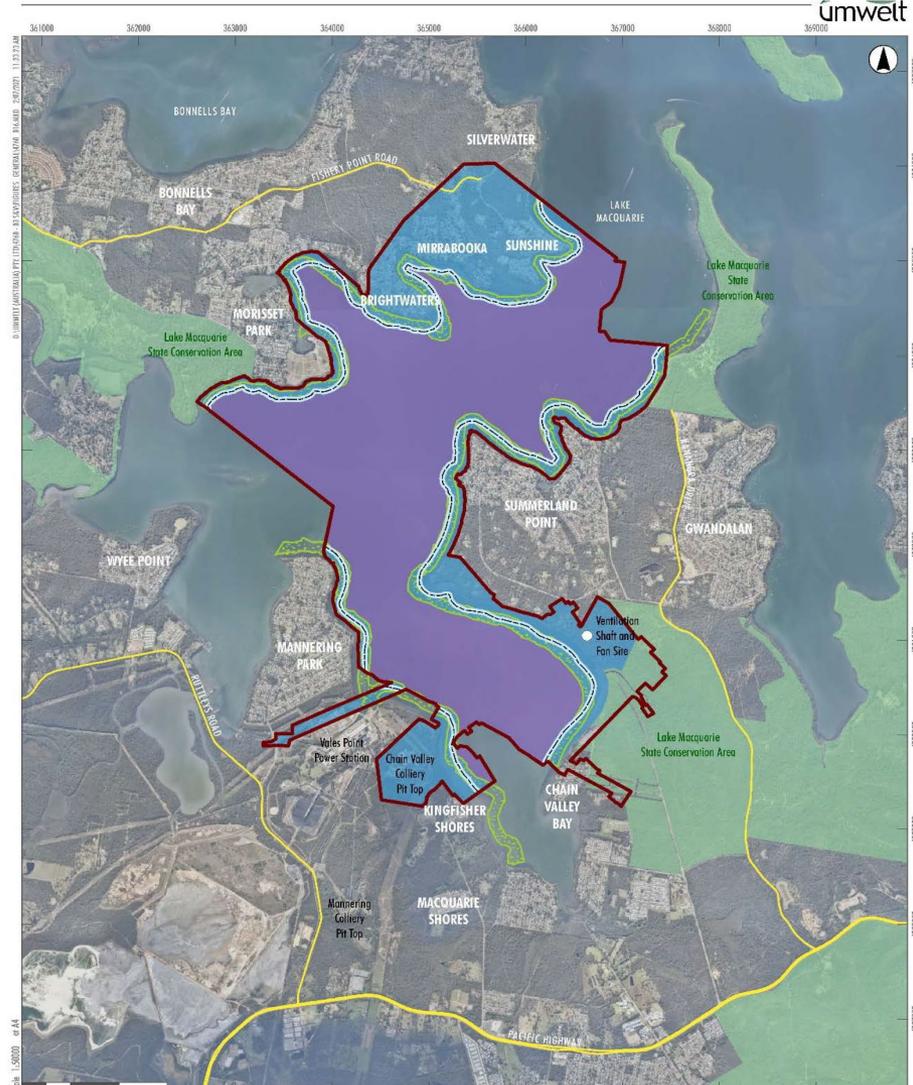
- MWS5 completion scheduled August 21
- Ongoing production in Northern Mining Area.
- FY21-22 production forecast close to 1.5Mtpa



# CVC – Development Consent SSD-5465 MOD 4

Modification 4 to Chain Valley Colliery's Development Consent, SSD-5465 was granted by DPIE in August 2021 following consultation and consideration of the Statement of Environmental Effects submitted. The modified development consent is available on the Delta Coal website. There were no changes to annual allowed extraction rates from MOD 3 (2.1Mtpa)

## APPENDIX 3 DEVELOPMENT LAYOUT



### Legend

- Chain Valley Colliery Development Consent Boundary
- High Water Mark Subsidence Barrier
- Zone A - Long term stable mining systems generating up to 20 mm surface subsidence
- Zone B - Mining systems generating up to a maximum of 780 mm vertical subsidence
- State Conservation Area
- Seagrass Protection Barrier

# Mining Lease ML1785

## LANDOWNER NOTIFICATION

Great Southern Energy Pty Ltd (trading as Delta Coal) registered Mining Lease 1785 on the 29th April 2021, as the result of a partial transfer of Mining Lease 1632 from Centennial Myuna Pty Ltd.

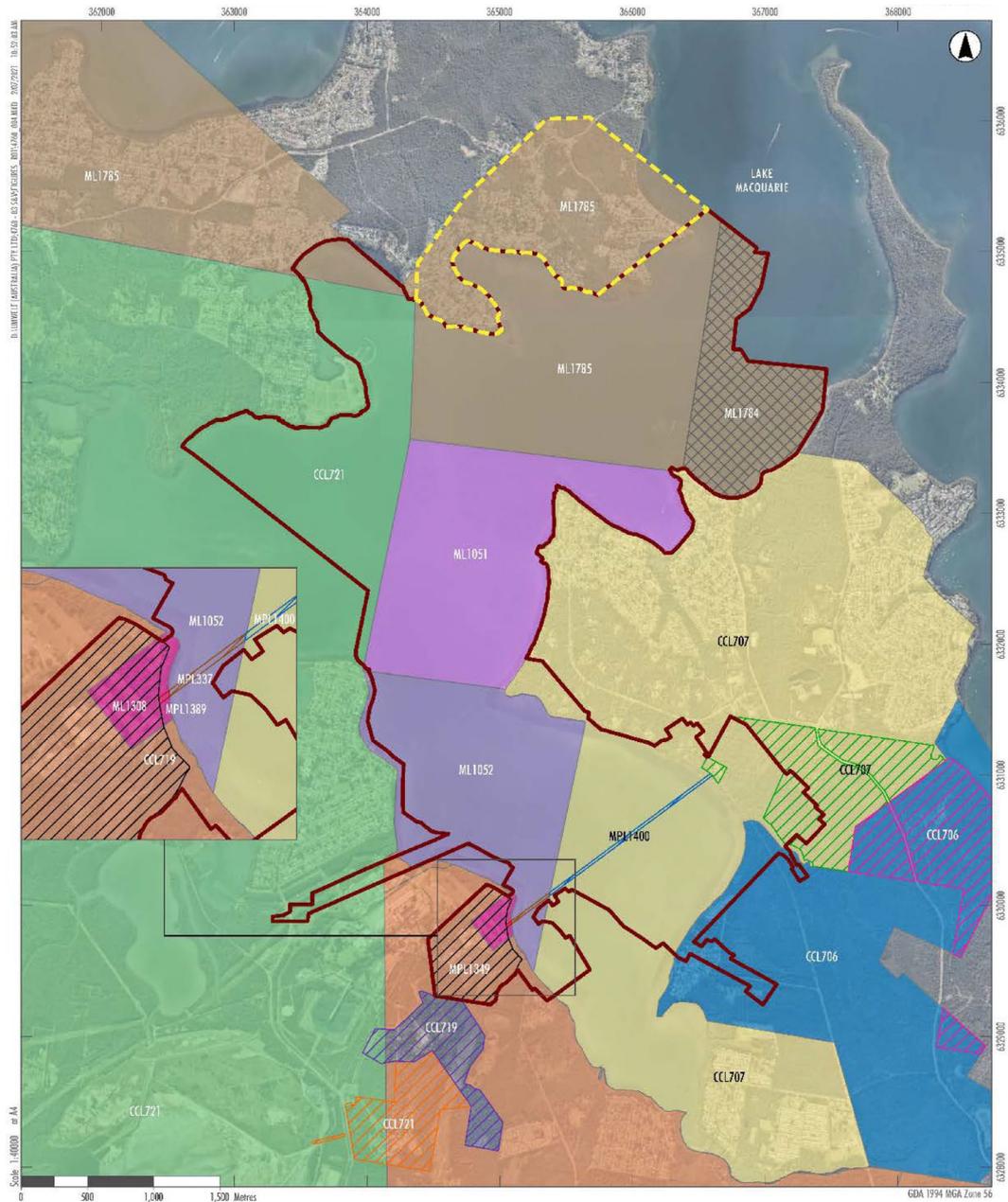
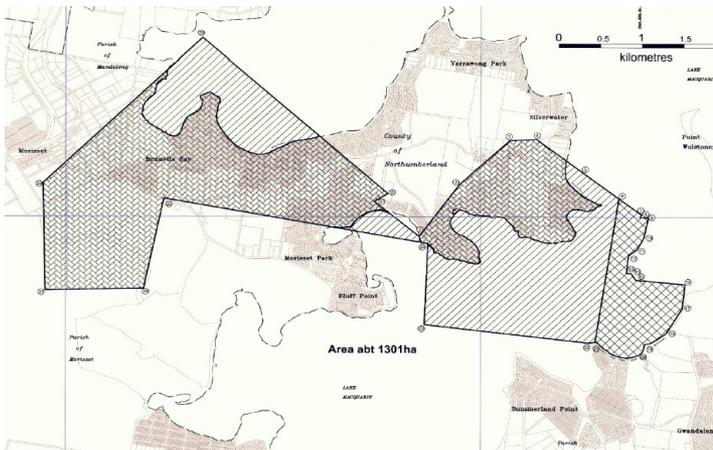
Great Southern Energy Pty Ltd (ABN 40 621 1409 201) gives notice of the partial transfer to landholders as required under the Mining, Exploration and Geoscience Group within Regional NSW & Mining Lease Conditions 2013.



For more information:  
 Email: [info@deltacoal.com.au](mailto:info@deltacoal.com.au)  
 Community Information Line:  
 1800 687 260



[www.deltacoal.com.au](http://www.deltacoal.com.au)



# APPROVALS - CURRENT



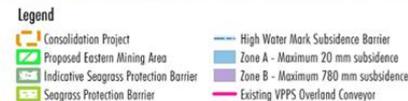
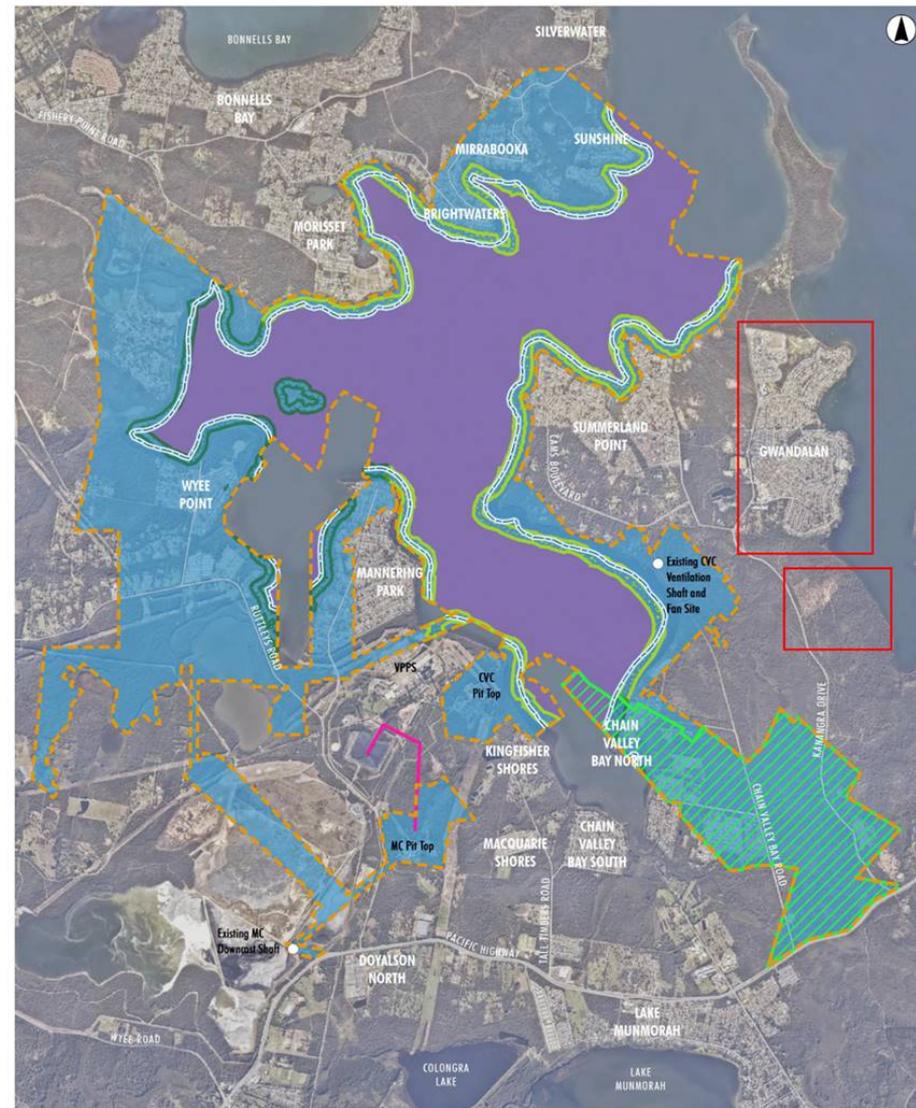
| Approval   | Status   |
|--|--|
| Chain Valley Colliery Development Consent<br>CVC SSD-5465 (MOD 4)  | Approved 5 <sup>th</sup> August 2021                               |
| Mannering Colliery Project Approval<br>PA 06_0311  | Approved June 2020   |
| MWS5 and NPA Extraction Plan   | Approved in March 2021   |
| CVC and MC Mining Operations P 2020-2023<br>Amendment 1  | Approved March 2021<br>Expires 31/12/2023                          |
| CVC and MC MOP 2020-2023 Amendment 2<br>Amendment to include the Mining Lease transfer of ML1632 to<br>ML1785. | Submitted 11/08/2021<br>Pending approval.<br>Expires 31/12/2021    |
| Environmental Protection License (EPL) 1770  | Last updated April 2019<br>Variation request submitted August 2021 |
| EPL 191  | Last updated April 2021  |

# DELTA COAL CONSOLIDATION / CONTINUITY PROJECT STAGES

## Consolidation Project (CVC, MC & Eastern Mining Area)

- Extends Life of mine from 2027 to 2029
- Community drop-in sessions in December 2020 and March 2021 an additional drop in session is hopefully to be arranged pending COVID-19 restrictions
- Scoping Document submitted in February 2021
- Secretary's Environmental Assessment Requirements (SEARs) received - May 2021
- Environmental Impact Statement (EIS) submission and public exhibition forecast for September/October 2021.
- Technical Specialist reports are currently under review prior to appending to the (EIS)
- LW query regarding Gwandalan and new developments & the EMA, see adjacent Figure.

## Consolidation Project



# Subsidence Monitoring and Subsidence Impact Monitoring

- Bathymetric surveys for MWS5 to be completed
- Annual surveys and studies of Lake Macquarie Seagrass were undertaken at Chain Valley Bay, Summerland Point, Crangan Bay and Brightwaters in June 2021 and are available on the Delta Coal website.
  - The outcomes of the study indicated consistent seagrass coverage and health in the study areas with 91-100% seagrass ground coverage and considerable improvements from baseline surveys in 2008 (related to reduced commercial netting)
- A conservation risk assessment (considering the potential heritage and ecological risks of installing survey markers along the foreshore) was completed on the Brightwaters foreshore and submitted to LMCC prior to the installation of small subsidence markers pictured adjacent.
- Landowner consent was obtained for a number of foreshore properties allowing the installation of survey monitoring pins.



Culturally Modified Tree Identified during CRA field work.



Survey monitoring 'pins' for subsidence monitoring 11

# Environmental Incidents/non-compliances

| Date       | Incident type                              | Incident Details   | Corrective Actions  |
|------------|--|--|---|
| 13.05.2021 | Depositional Dust technical non-compliance | Dust Gauge contamination of Depositional Dust Gauge DDG005 (CVC Vent Fan Site – Requested for removal due to frequent contamination) Dust Gauge Composition: <ul style="list-style-type: none"> <li>• Dirt (70%)</li> <li>• Polysaccharide slime (20%)</li> <li>• Insects (10%)</li> </ul> | Replace gauge DDG005.   |
| 13.05.2021 | Depositional Dust technical non-compliance | Dust Gauge Contamination of Depositional Dust Gauge 'DG3' (MC perimeter), gauge composition was: <ul style="list-style-type: none"> <li>• Polysaccharide slime (40%)</li> <li>• Sand (40%)</li> <li>• Insects (10%)</li> <li>• Vegetation (5%)</li> <li>• Coal (5%)</li> </ul>             | N/A – it was noted in discussions with the NSW EPA that the EPA and DPIE are moving away from Dust Gauges and referring more-so to PM10 continuous monitors due to contamination issues |

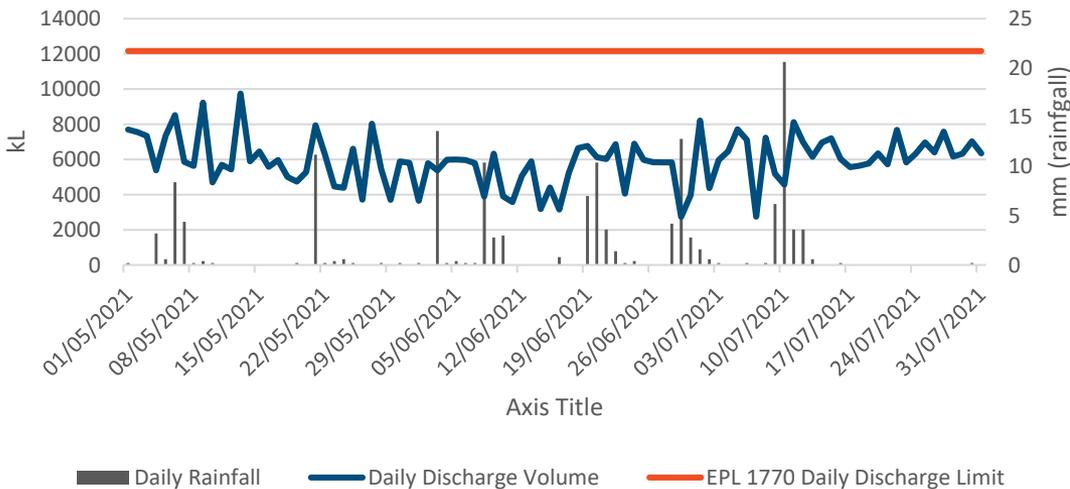


Example of slime in dust gauges.

# CVC Water Discharge



**Chain Valley Colliery - Daily Discharge Volumes**  
1 May – 31 July



| LDP1                           | Limits  | May-2021 | Jun-2021 | Jul-2021 |
|--------------------------------|---------|----------|----------|----------|
| Faecal Coliforms (CFU/100ml)   | 200     | 13       | 20       | <1       |
| Total Suspended Solids (mg/kg) | 50      | <5       | 10       | 10       |
| pH (pH Units)                  | 6.5-8.5 | 7.61     | 7.65     | 7.72     |

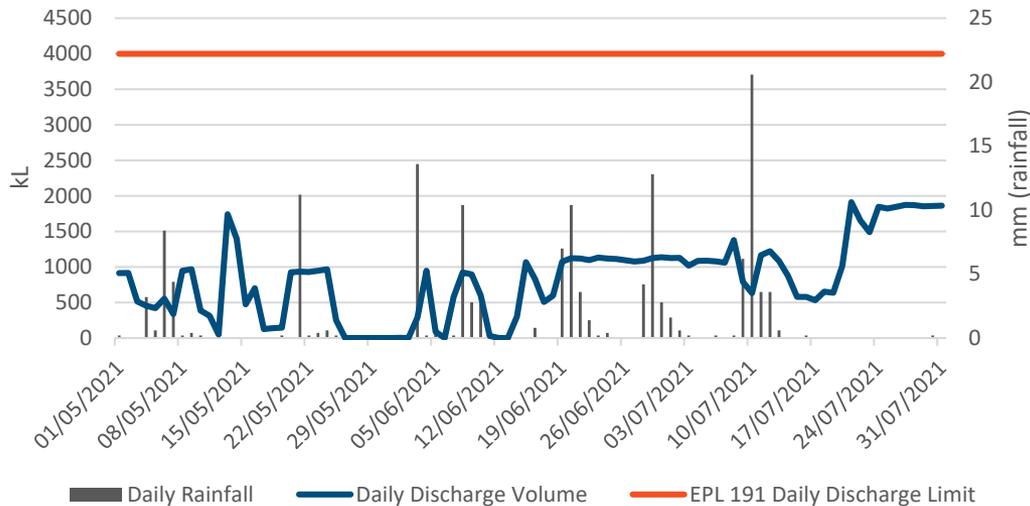
No discharge via CVC spillway (LDP27) in period of 1 May 2021 to 31 July 2021

# SURFACE WATER MONITORING - MC



## Manning Colliery Monthly Average Water Quality Results – Licenced Discharge Point 1

Manning Colliery - Daily Discharge Volumes  
1 May - 31 July 2021

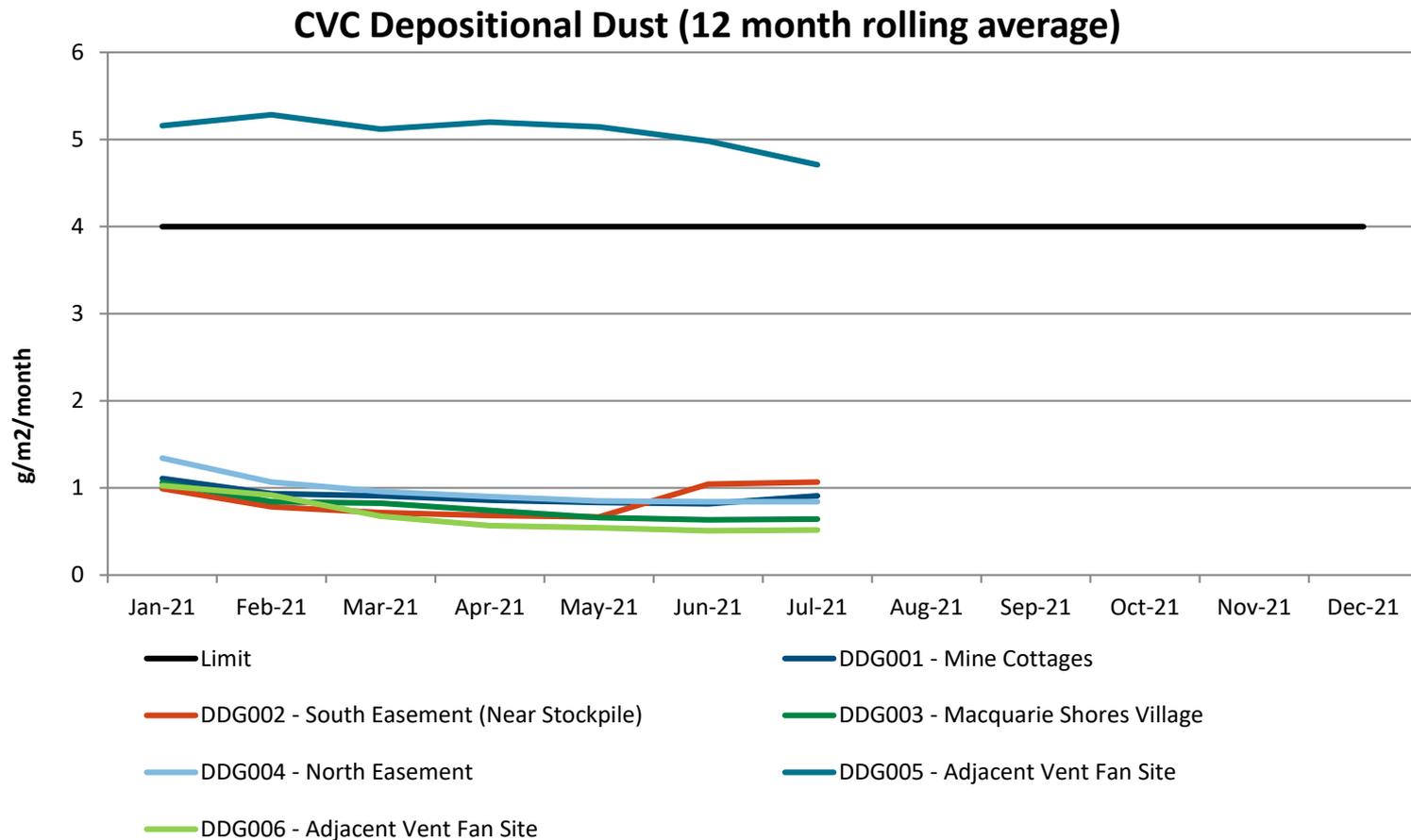


| LDP1              | Limits  | May 2021 Average | Jun 2021 Average | Jul 2021 Average |
|-------------------|---------|------------------|------------------|------------------|
| Oil & Grease mg/L | 10      | <5               | <5               | <5               |
| TSS mg/L          | 50      | 7                | 10               | 5.5              |
| pH                | 6.5-8.5 | 7.7              | 7.85             | 7.87             |

# DEPOSITIONAL DUST – Chain Valley Colliery



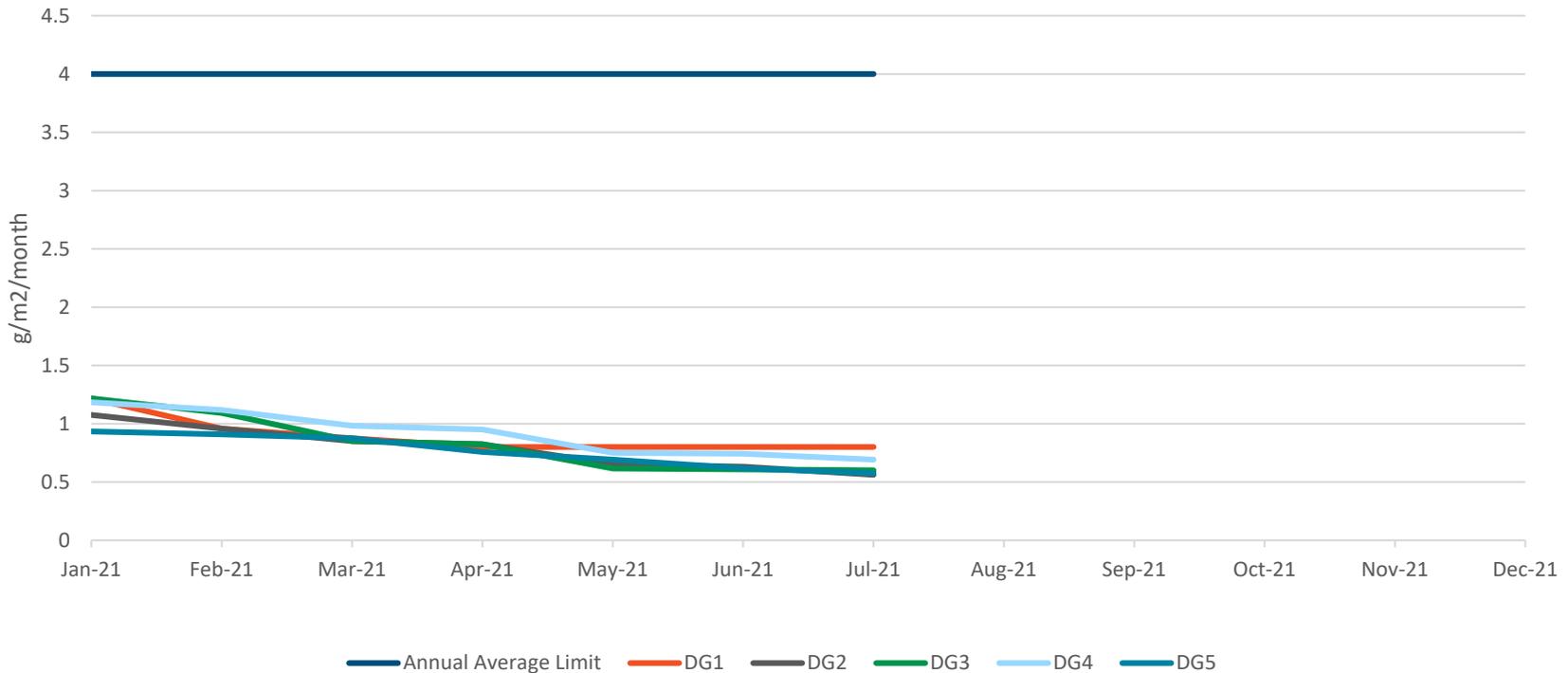
Note: initial feedback received from DPIE on Air Quality Management Plan, noting that upon final approval of the plan DDG005 can be replaced by DDG006.



# DEPOSITIONAL DUST – Mannering Colliery

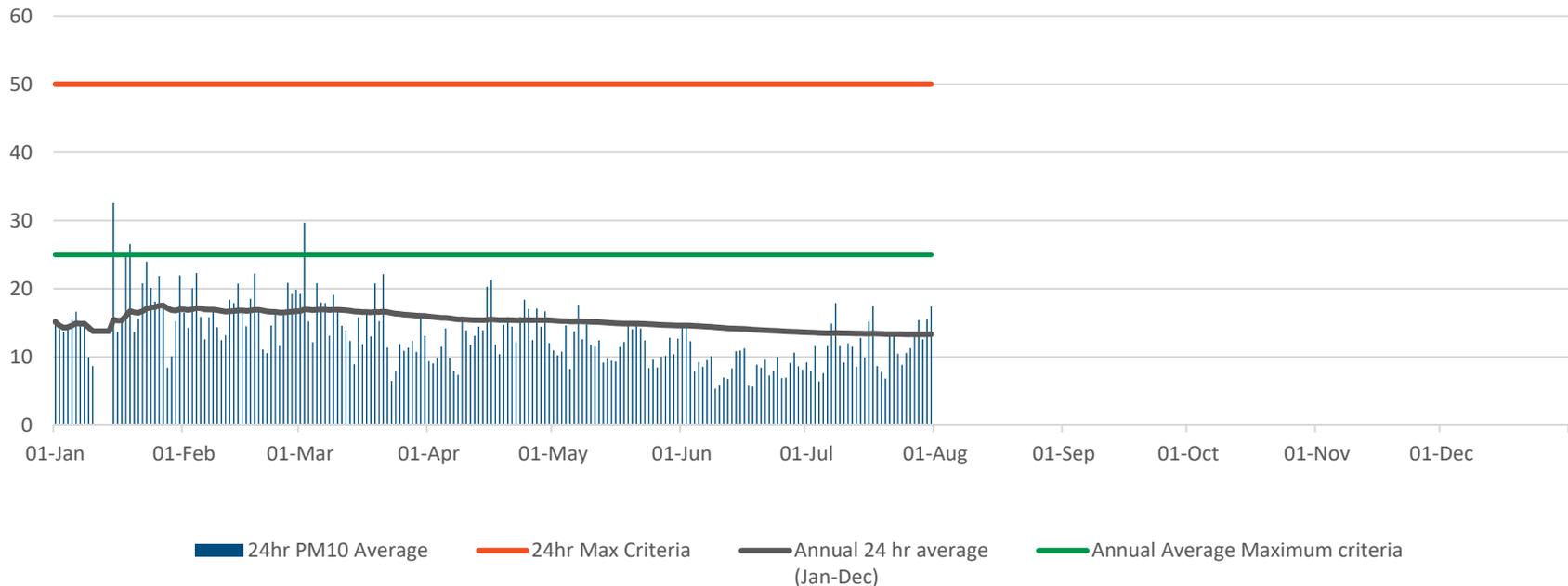


### MC Depositional Dust (12 month rolling average)



All depositional dust gauges for MC are located around the sites perimeter, no exceedances of long term criteria have been observed year to date.

## PM<sub>10</sub> ( $\mu\text{g}/\text{m}^3$ ) Monitoring 2021

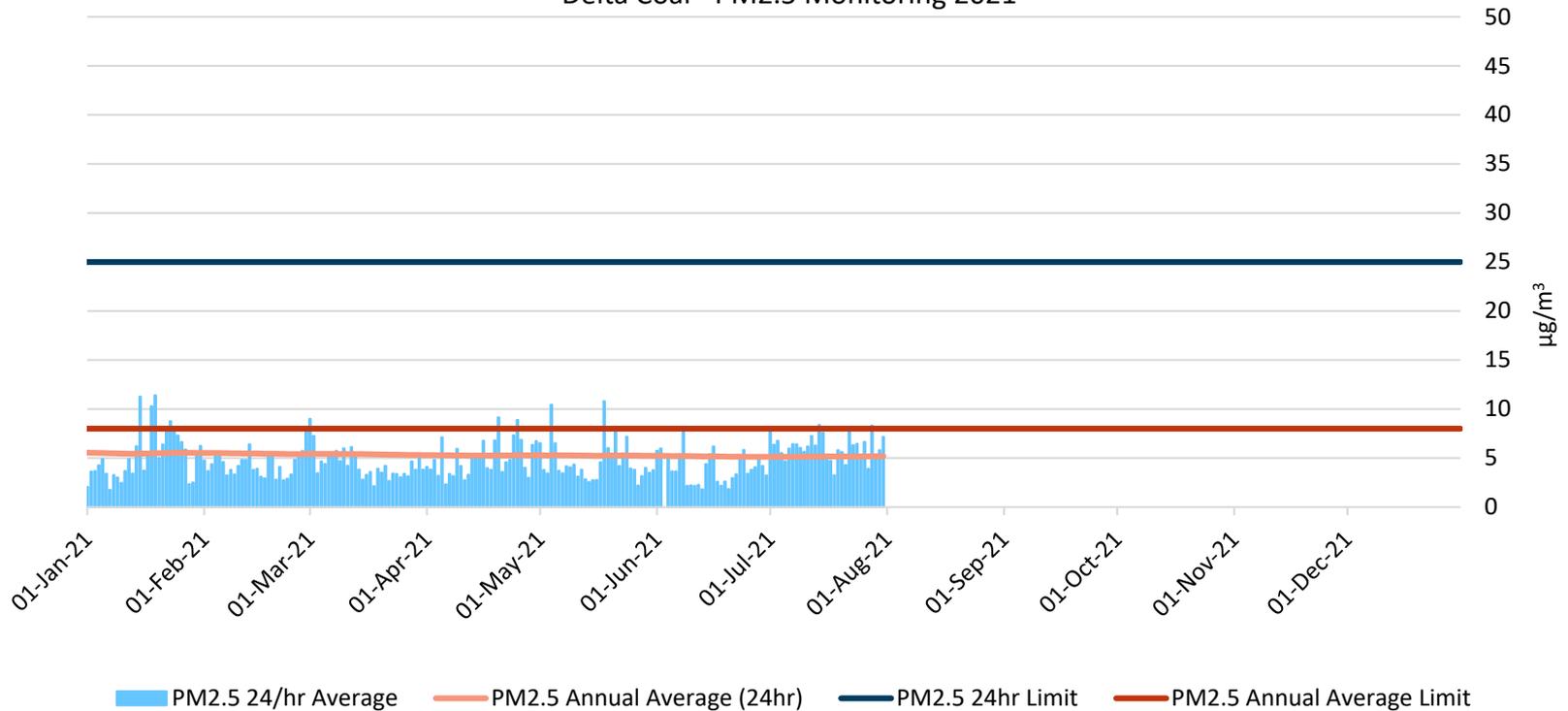


Delta Coals tapered element oscillating microbalance (TEOM) PM<sub>10</sub> monitor is located at the Mannering Park Sewage Treatment Plan. No exceedances of the average annual or 24hr criteria have been observed year to date.

# PM<sub>2.5</sub> Monitoring



Delta Coal - PM<sub>2.5</sub> Monitoring 2021



Delta Coal utilises Delta Electricity's Beta Attenuation Monitoring (BAM) PM<sub>2.5</sub> continuous monitor.

# NOISE MONITORING RESULTS

## Chain Valley Colliery:

- Noise monitoring undertaken quarterly, Q2 monitoring completed in June 2021. All monitoring locations were compliant with noise limits stipulated within the CVC Development Consent and EPL.

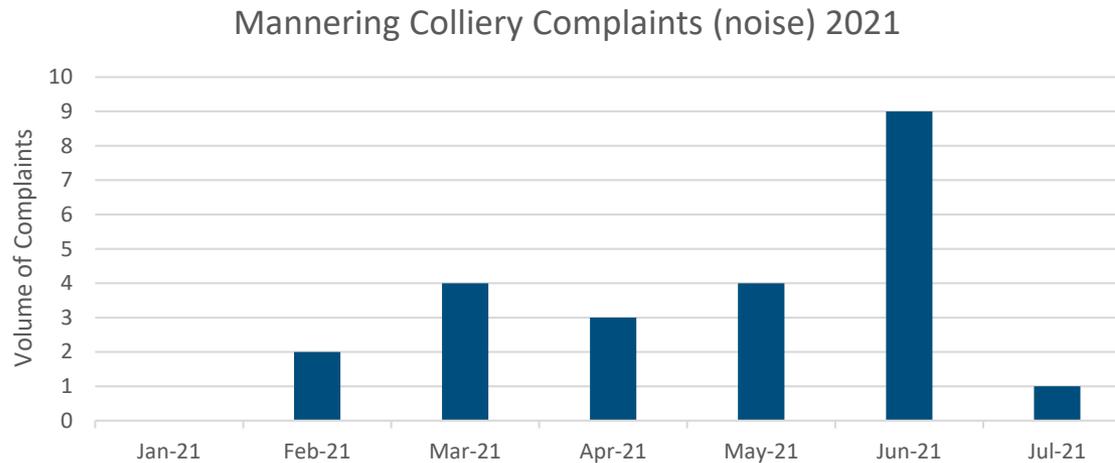
## Mannering Colliery:

- Mannering Colliery monthly monitoring in May, June and July 2021 was compliant with applicable noise limits (Project Approval)
- Additional noise monitoring is being undertaken in the periods of 3am, 4am, 5am and 6am at Macquarie Shores Home Village to further address noise complaints from residents
- Noise logger data has not indicated noise emissions exceeding set limits due to colliery noise emissions.



## 2021 Complaints (Jan -July)

- 1 community complaint in 2021 for Chain Valley Colliery (resident of Gwandalan suspected potential subsidence associated with circa 1970's Wallarah Colliery workings and was referred to the NSW Subsidence Advisory Board, no update has been received to date)
- 20 community complaints year to date for Mannering Colliery (noise complaints sourcing from a resident of Macquarie Shores Home Village)



# DELTA COAL ENVIRONMENTAL PROJECTS



- CVC Sewer Connection – DA approved by Central Coast Council December 2020. Delays to tenders for the construction of the sewage pump station and rising main due to COVID-19, Tenders are due late August 2021.
- Designs being finalised for sediment and erosion control works at the CVC stockpiling area
- Revision of Environmental Management Plans following Modification 4 approval
- Ongoing noxious weed and site environmental management works.

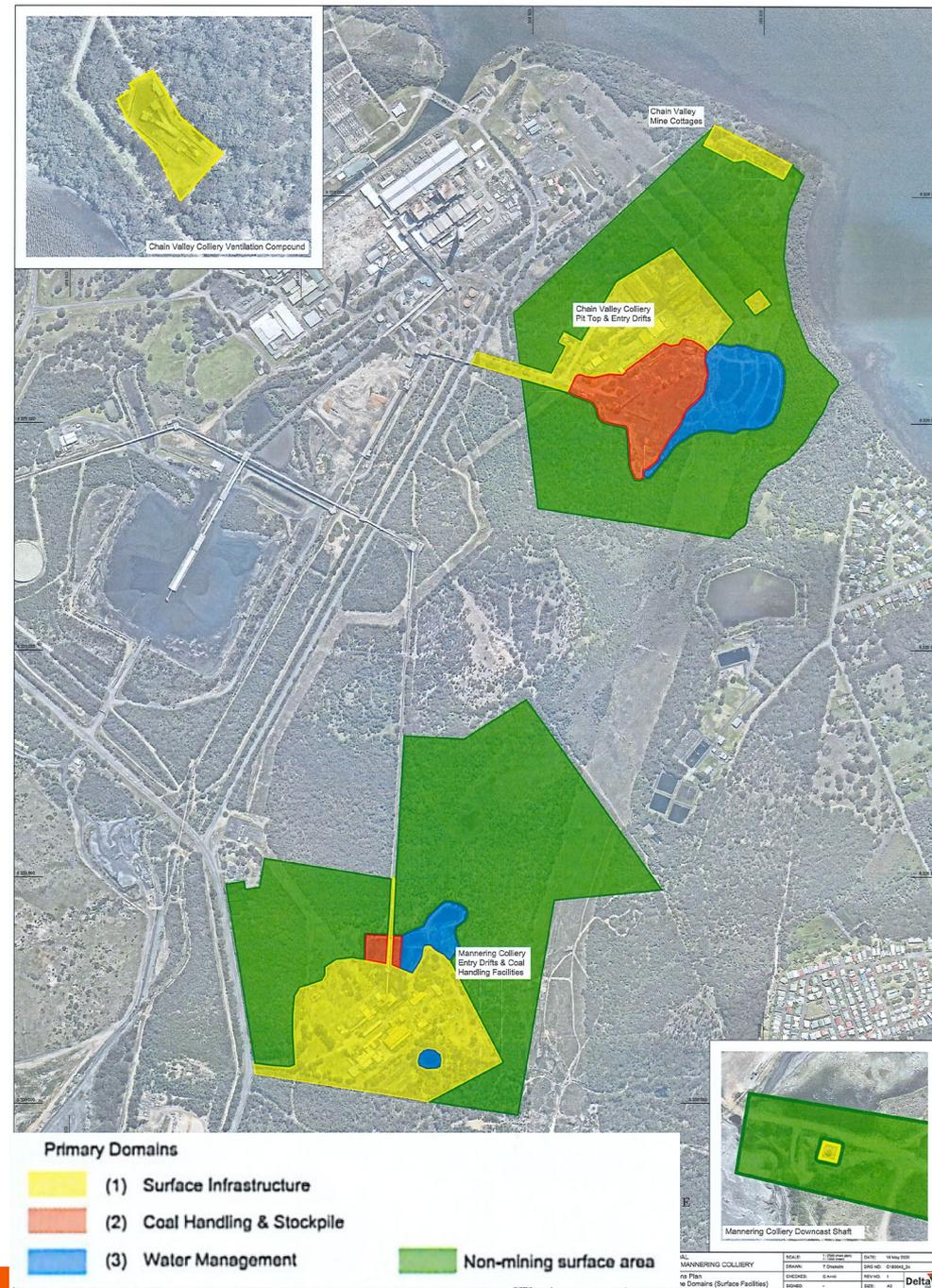


# DELTA COAL SITE REHABILITATION

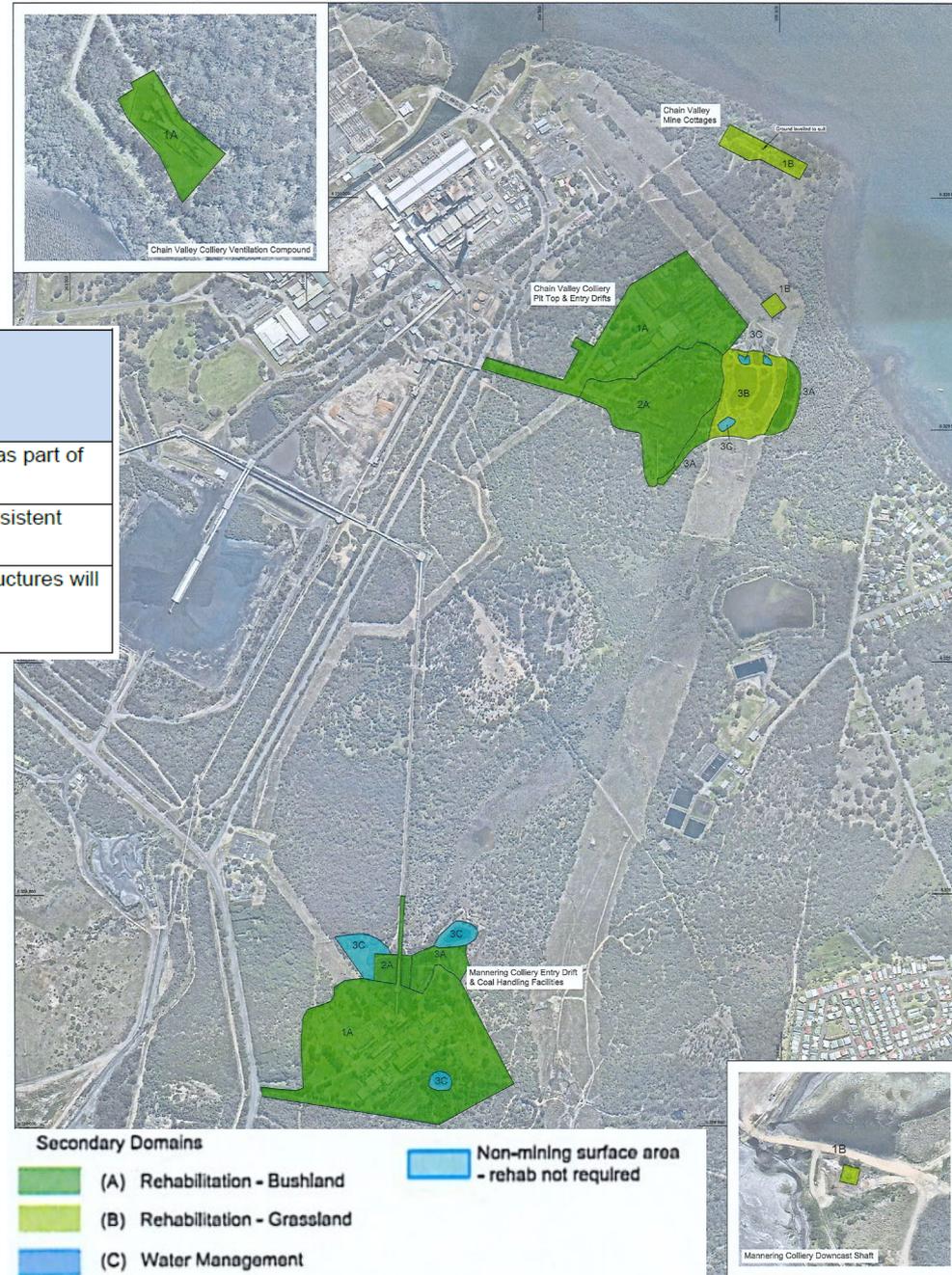
The stages of Delta Coals Site rehabilitation are planned as follows:

1. Decommissioning of infrastructure (sites to be safe, stable and non-polluting)
2. Landform establishment
3. Growth medium development
4. Ecosystem and land use establishment
5. Ecosystem and land use sustainability
6. Relinquishment of lands

Rehabilitation objectives for different portions of the sites are determined under rehabilitation domains, which defines a primary and secondary domain type, with the primary referring to the land use during active mining and secondary domain referring to the post mining domain. The current primary domains for Delta Coal sites are shown in the adjacent Figure.



# DELTA COAL SITE REHABILITATION



| Secondary Domain Code | Secondary Domain Name          | Description  |
|-----------------------|--------------------------------|--|
| A                     | Rehabilitation Area (Bushland) | The areas which will be rehabilitated to native bushland (as part of the Vales Point Power Station buffer lands) |
| B                     | Rehabilitation Area (Grass)    | The areas which will be rehabilitated to a grass cover consistent with surrounding grass species.                |
| C                     | Water Management Area          | The areas in which dams or other water management structures will be retained.                                   |

Areas to be returned to bushland aim to target vegetation communities including:

- Broad-leaved Scribbly Gum Open Forest (MC Pit Top)
- Coastal Open Woodland (majority of CVC Pit Top)
- Swamp Sclerophyll Forest (for CVC upcast shaft)

Areas to be returned to grassland will be established consistent with surrounding grass species.

Monitoring of key rehabilitation objectives is undertaken throughout the site rehabilitation and vegetation growth and reported to DPIE.

More information on the site rehabilitation can be obtained through the Mining Operation Plan (MOP) available on the Delta Coal Website.

## QUESTIONS

Next Meeting: Wednesday 17<sup>th</sup> November 2021