

Duralie Coal CCC Meeting

Presentation –
Company Report &
Overview of Activities

August 2020

Michael Plain
Environment & Community Superintendent

Table of Contents

1. Agenda Item 7a - Progress at the Mine
2. Agenda Item 7b - Environmental Reporting
3. Agenda Item 7c - Environmental Management Plans & Monitoring
4. Agenda Item 7d - Community Complaints
5. Agenda Item 7e - Community Programs



1. Progress at the Mine

1st Half 2020

- No mining operations were undertaken at Duralie during the first half of 2020.
- Rehabilitation works continued with bulk shaping of the waste emplacement.
- AD1 decommissioning completed.

2nd Half of 2020

- Stage 1 of PAF re-handling works is scheduled to be complete September 2020 .
- Planning next round of rehabilitation works.
- AD2 dewatering to commence.

2. Environmental Reporting & Regulators

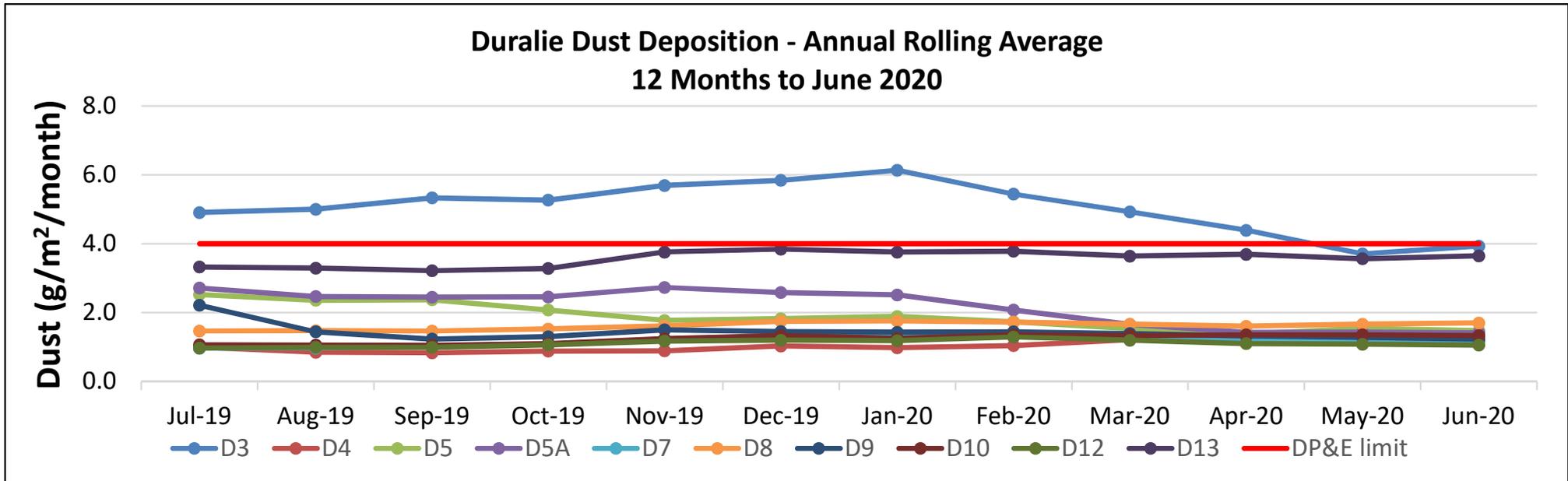
Management Area	Project	Status
Reporting	<ul style="list-style-type: none">Duralie Coal Mine Annual Review 2019/20	<ul style="list-style-type: none">The Duralie Coal Mine 2019/20 Annual Review is due September 2020. The Annual Review will be made available to the CCC and on the Duralie Coal website.
Regulator	<ul style="list-style-type: none">Mining Operations Plan & Rehabilitation Management PlanDPI&E InspectionEnvironmental Management Plans	<ul style="list-style-type: none">Duralie MOP approved by Resources Regulator in February 2020. The new MOP establishes the rehabilitation and mine closure activities for the next two years until December 2021. Available on the Duralie Coal website.Inspection of site completed Wednesday the 29th of January 2020. No actions.No changes

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



Jul-19 Heavy - 30% Dirt, 0% Coal, 0% Vegetation, 0% Insects and 70% Polysaccharide Slime

Sep-19 Heavy - 20% Dirt and 80% Polysaccharide Slime

Oct-19 Heavy - 30% Dirt and 70% Polysaccharide Slime

Nov-19 Heavy - 60% Dirt, 40% Polysaccharide Slime

Dec-19 Heavy - 60% Dirt, 40% Polysaccharide Slime

Jan-20 Medium - 50% Minerals, 20% Vegetation, 30% Contamination

Jun-20 Very Heavy - 10% Dirt, 90% Polysaccharide Slime

Guide to Descriptions used by Laboratory

Coal: Black sharp angled grains with glossy conchoidal fractures or dull with cellular features.

Dirt/Minerals: Subhedral to euhedral crystalline grains including fine sand, clay and other fine mineral particulates.

Insects: Whole insects such as spiders, ants, moths or outer parts of insects including wings, legs and exoskeletons.

Vegetation: Plant debris and algae including trichomes, decomposed organic matter and charred particulates showing characteristic cellular plant structures.

Polysaccharide Slime: Slimy gelatinous material including decomposed soft body parts of insects and vegetation.

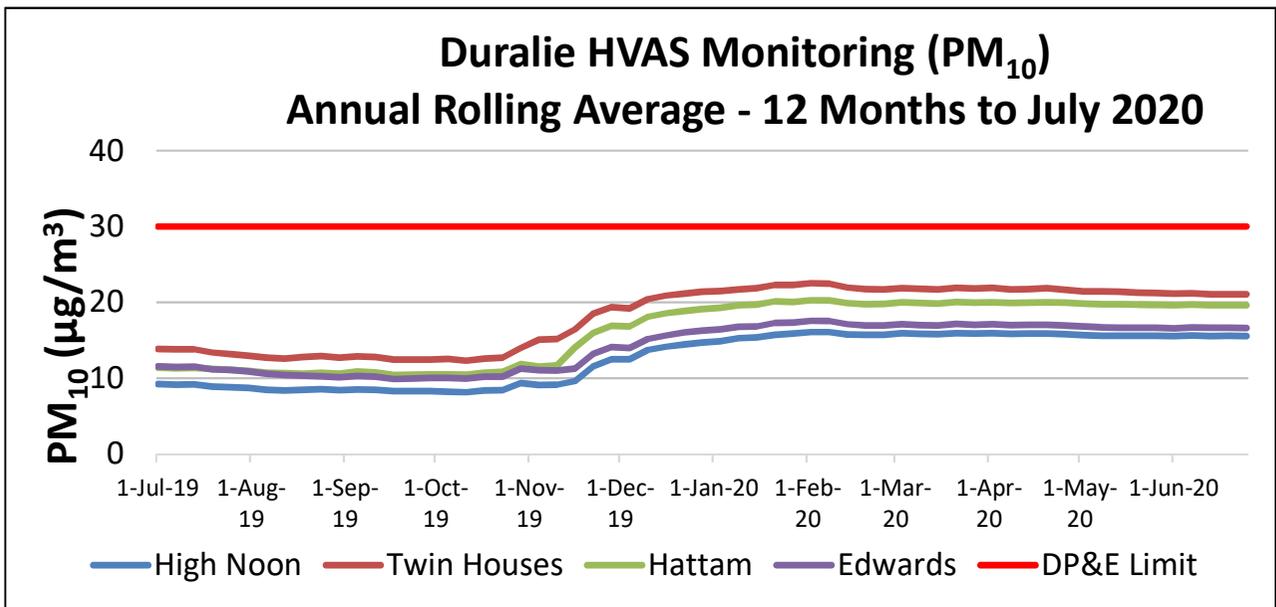
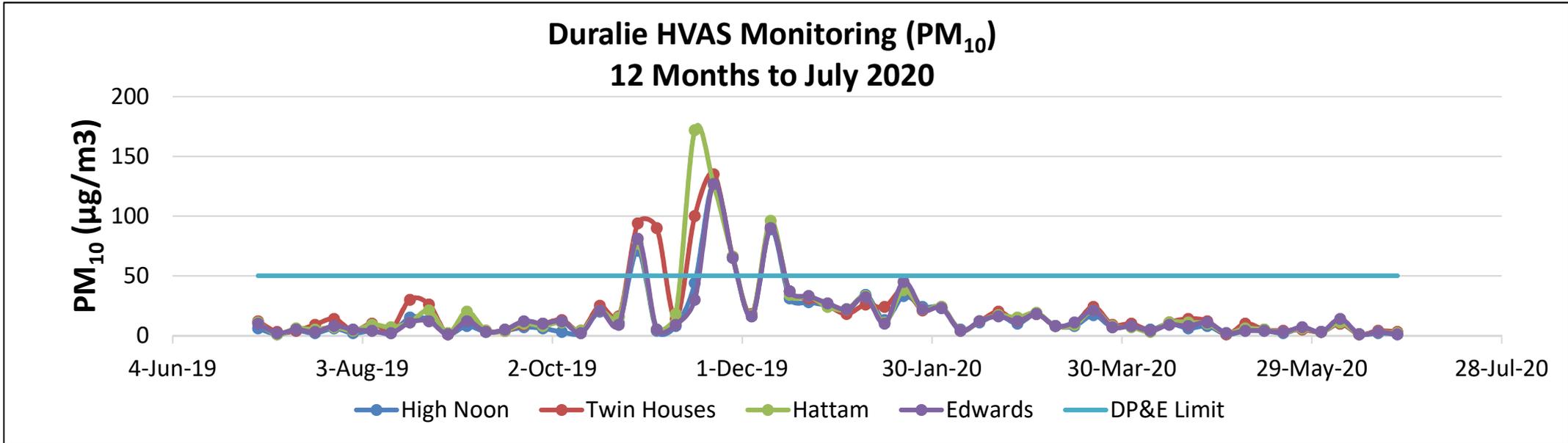
Copper Sludge: Blue-green subhedral to euhedral crystalline salts, commonly precipitated from the copper sulphate algacide solution.

Contamination: Gelatinous material such as bird droppings

- High levels in D3 and D13 due to contamination of multiple samples. Additional site D5A installed for comparison.
- Due to frequent contamination of dust gauges the HVAS results should also be used when interpreting results.



3a. Air Quality Management



- All sites below DP&E limit. Typically low results during winter and higher during spring/summer.
- Step increasing trend during previous 12 months.
- Multiple high results during spring/summer 2019 due to extensive bushfires and poor regional air quality.
- HVAS results provide more reliable data compared to dust deposition results and should be referred to when interpreting dust emissions.

3b. Blast Management

Management Area	Project	Status
Blasting	<ul style="list-style-type: none">Blast monitoring	<ul style="list-style-type: none">Blast activities at the DCM were completed on 17 August 2018. No further blasting is proposed until further notice.

- 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.*

3c. Noise Management

Management Area	Project	Status
Noise Monitoring	<ul style="list-style-type: none">Routine Monitoring	<ul style="list-style-type: none">Routine quarterly noise monitoring of operations recommenced in Q4 2019, to monitor noise emissions from rehabilitation day works.Quarterly monitoring continued during H1 2020. All results were compliant.Noise reports are made available on the Duralie Coal website.
Noise Management Plan	<ul style="list-style-type: none">Real-Time Noise Management	<ul style="list-style-type: none">During Q4 2018 operations at the Duralie Mine ceased.In accordance with the revised NMP real-time noise monitoring has now ceased whilst no evening or night-time operations are undertaken.

3d. Water Management

Management Area	Project	Status
Site Water Management	<ul style="list-style-type: none"> Annual water balance review. 	<ul style="list-style-type: none"> The 2019 annual site water balance review has been completed. A summary will be included in the Annual Review 2019/20.
Surface Water	<ul style="list-style-type: none"> Routine monitoring 	<ul style="list-style-type: none"> Multiple high flow rain events occurred during Summer/Autumn 2020. Routine and event surface water monitoring completed. All sites generally within Duralie water quality performance indicators. No obvious trending towards performance indicators.
	<ul style="list-style-type: none"> Irrigation 	<ul style="list-style-type: none"> No irrigation is currently being undertaken in the first flush irrigation areas. Irrigation has continued on the PAF waste emplacement area as part of the PAF rehandling works.
Groundwater	<ul style="list-style-type: none"> Routine monitoring 	<ul style="list-style-type: none"> Routine monitoring has been completed and the results continue to indicate consistency with the model trends in the Environmental Assessment.

3e. Rehabilitation Management

Management Area	Project	Status
Rehabilitated Waste emplacements	<ul style="list-style-type: none">• Rehabilitation Works• Rehabilitation maintenance• Rehabilitation Planning	<ul style="list-style-type: none">• 20ha of native rehabilitation was completed in H1 2020 including topsoil spreading and seeding.• Slashing and over-seeding of areas of pasture completed on the Weismantel rehabilitation. Turkey litter and kikuyu seed application completed during H1 2020.• Planning is underway for rehabilitation works schedule in Q1 2021.



Photo: Complete rehabilitation at Weismantel waste emplacement and Duralie Haul Rd, taken July 2020.



Photo: Bulk shaping and topsoiling at Weismantel waste emplacement and Duralie Haul Rd, taken Jun 2020.



3e. Rehabilitation Management

Management Area	Project	Status
Dam Decommissioning	<ul style="list-style-type: none">Auxiliary Dam 1	<ul style="list-style-type: none">Decommissioning and rehabilitation of AD1 was completed in H1 2020, 20ha of non-native pasture.AD1 Clay core was recovered and has been stockpiled for use for the clay lining in the Coal Shaft Creek Reconstruction.



Photo: Shaping and topsoiling completed at Auxiliary Dam 1, Jul 2020.



3f. Biodiversity Management

Management Area	Project	Status
BMP	<ul style="list-style-type: none"> Biodiversity Management Plan revision 	<ul style="list-style-type: none"> A revision of the Biodiversity Management Plan has been prepared following the first 5 years of implementation. A summary of the biodiversity offset works completed and the changes to the BMP is included in the Annual Biodiversity Report to be included in the Duralie Annual Review
Biodiversity Offset	<ul style="list-style-type: none"> Revegetation works Revegetation Planning 	<ul style="list-style-type: none"> Approximately 15,000 tubestock were planted during H1 2020 in the biodiversity offset area along Johnsons Creek Road. Planning is underway for the revegetation works scheduled in Q1 2021.



Photo: Tubestock preparation for H1 2020



Photo: Tubestock planting during H1 2020



3f. Biodiversity Management

Management Area	Project	Status
Flora/Fauna	<ul style="list-style-type: none"> Nest Box Program 	<ul style="list-style-type: none"> Nest box monitoring was undertaken during April 2020 including the new nest boxes in the rehabilitation area . A summary of the nest box progress will be included in the next Annual Review.
Pest Control	<ul style="list-style-type: none"> Wild Dog control program 	<ul style="list-style-type: none"> Wild dog and fox trapping concluded in April 2020, covering all Stratford Coal owned properties including biodiversity offsets and Mining Leases. Further trapping of Wild Dogs and Wild Cat is Q4 2020.
Access & Livestock	<ul style="list-style-type: none"> Fencing 	<ul style="list-style-type: none"> Work has continued to replace and install boundary fencing for the biodiversity offset areas to exclude livestock in locations where fencing is in disrepair. Fences lost as a result of 2019 bushfires are scheduled for repair Q4 2020.
Bushfire Management	<ul style="list-style-type: none"> Bushfire Management 	<ul style="list-style-type: none"> Slashing of all access tracks and fire breaks was completed in April 2020.



Photos: Trail cameras capturing 2 wild dogs, April 2020.

3g. Mine Closure Planning

Note: *Refer to Duralie Mining Operations Plan & Rehabilitation Management Plan Table 14 Mine Closure Planning Schedule.

*Further detail on mine closure planning progress is included in the Annual Review 2019/20.

Management Area	Project	Status
Mine Closure Planning General	<ul style="list-style-type: none"> Stakeholder engagement 	<ul style="list-style-type: none"> Communications with the community consultative committee (CCC) have been established regarding mine closure planning. This presentation will continue to be updated to provide relevant information through the CCC forum.
Rehabilitated Landforms	<ul style="list-style-type: none"> Landform design and stability 	<ul style="list-style-type: none"> DCPL have continued to prepare the detailed final landform designs for the waste emplacement areas. Preparation of a geotechnical assessment and specifications for the final void design have continued to ensure the long-term void is safe and stable.
Final Voids	<ul style="list-style-type: none"> Water management and final void water balance 	<ul style="list-style-type: none"> Review of the final void site water balance has commenced to ensure the balance incorporates the final landform design, surface water inflows and outflows to/from final void.
	<ul style="list-style-type: none"> Groundwater Model 	<ul style="list-style-type: none"> Post-mining groundwater model verification has commenced to incorporate final void design. This work is undertaken in conjunction with the final void water balance.
Rehabilitation Resources	<ul style="list-style-type: none"> Topsoil Resources 	<ul style="list-style-type: none"> A topsoil stockpile update was undertaken in July 2020 to ensure adequate topsoil is available for rehabilitation. The use of topsoil continues to be tracked.
Water Management	<ul style="list-style-type: none"> Mine Water Dams 	<ul style="list-style-type: none"> Preparation of a strategy for decommissioning of the mine water dams has commenced. DCPL has engaged an independent dams engineer to assist with preparing plans for the decommissioning of the prescribed dams Auxiliary Dam 1 has been dewatered and decommissioning and rehabilitation was completed in Q1 2020. Preparations have commenced for pumping mine water to the Clareval void.
Coal Shaft Creek	<ul style="list-style-type: none"> CSC reconstruction 	<ul style="list-style-type: none"> Re-construction of the lower reaches of Coal Shaft Creek is required following the completion of mining activities. A conceptual Coal Shaft Creek Reconstruction Plan was prepared in 2012. A consultant has been engaged to prepare the detailed design for the reconstruction of Coal Shaft Creek. Removal of the ROM coal stockpile in the CSC corridor has been completed. Bulk shaping of the final creek landform has commenced.
Final land use	<ul style="list-style-type: none"> Potential final land-use planning 	<ul style="list-style-type: none"> Draft plan prepared in 2017.

4. Community Complaints

Duralie Complaint Summary

Period: 01/01/2020 - 30/06/2020

Period: 6 Months

Total No. of Complaints: 0 (0 noise, 0 blast, 0 air quality, 0 other)

Total No. of Complainants: 0

Date/Time of Complaint	Complainant Location	Method of Complaint	Nature of Complaint	Investigation/Outcome



5. Community Programs

Management Area	Project	Status
Support Programs	Stratford Coal Community Support Program	<ul style="list-style-type: none"> • Since 2010, Stratford Coal has granted over \$600,000 to local community groups. • SCPL received a very good response from many community organisations in 2020 with 24 successful local community organisations. • A presentation for the recipients of the 2020 Stratford Coal Community Support Program was held at the Avon Valley Inn on 11 March 2020. • Covid19 has impacted a number of recipients with SCPL continuing to support those organisations.
	Stratford Coal Education Support Fund	<ul style="list-style-type: none"> • A great response to the Education Support Program for 2020 was received again with a strong round of applicants. • The fund began in 1997 and has contributed a total of over \$781,406 including \$47,500 in 2020. • The Education Support Fund presentation night was cancelled due to Covid19.



Photo: Stratford Coal Community Support Program presentation night, 11 March 2020.

