



SIMEC

Myrtle Creek

Corrective Management Action Plan

November 2019 | Newsletter # 8

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Progress Report

Tahmoor Coking Coal Operations (TCCO) completed coal extraction below Myrtle Creek between 2004 and 2015. Longwall mining has caused subsidence impacts that has resulted in some pools along Myrtle Creek only retaining water after heavy periods of rain.

As a result, TCCO have prepared a Myrtle Creek Corrective Action Management Plan (**Myrtle Creek CMAP**) that outlines proposed rehabilitation works and includes pool mapping, photogrammetry and surveying, characterisation and pool rehabilitation works.

Works have been developed in consultation with and approved by relevant government departments including, Department of Planning, Industry and Environment (**DPIE**) – Resources Regulator, DPIE – Planning, Department of Primary Industries (**DPI**) – Fisheries, Natural Resources Access Regulator (**NRAR**), Wollondilly Shire Council and community consultative committees.

Characterisation Drilling

Characterisation drilling along the banks of Myrtle Creek is now complete. Drilling was conducted to determine the fracture network to inform rehabilitation works. Piezometers have now been installed and will be monitored for groundwater quality and levels.

For More Information

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Environmental Project Coordinator

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Pool 23 Rehabilitation

Works are progressing on schedule for the Pool 23 Rehabilitation works. Drilling across the rock bar to investigate the fracture network is nearing completion. Following drilling, an approved polyurethane material will be injected into the fractured rock to effectively seal up fractures, and stop flowing through them. Polyurethane has been used successfully for creek rehabilitation in Sydney Catchment Authority areas as it has minimal ecotoxicological effects and has proven highly effective.

Works are being conducted between **8:00am to 5:00pm, Monday to Friday**, and are expected to be completed in December 2019.

Pool Rehabilitation Trials

Three pools have been selected to trial smaller scale rehabilitation methods. The trials aim to seal surface fractures to increase holding capacity of subsidence impacted pools to pre-mining conditions. One pool has trialed the use of stabilised clay as a surface capping layer to effectively seal surface fractures. The success of the method is currently being determined. Two further pools will undergo shallow drilling (less than 2m) and then injected with either stabilised clay or colloidal silica. Materials being used are natural and have low to no environmental risk. TCCO is working with an Ecotoxicologist to reduce the risk of environmental harm.

Works are due to continue in stages during November and December, between **8:00am to 5:00pm, Monday to Friday**.

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Rehabilitation Sites



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