



SIMEC

Myrtle Creek

Corrective Management Action Plan

March 2024 | Newsletter #27

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Project Background

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

Tahmoor Coal has prepared a Myrtle Creek Corrective Action Management Plan (**Myrtle Creek CMAP**) that outlines proposed rehabilitation works, including pool mapping, surveying, characterisation and rehabilitation works. The approved schedule includes the remediation of Pools 23, 20, 14, 12a, 11 and 10 at Myrtle Creek.

Works have been developed in consultation with and approved by relevant government departments including, Department of Planning and Environment (**DPE**, now Department of Planning, Housing and Infrastructure, **DPHI**), NSW Resources Regulator, Department of Primary Industries (**DPI**) – Fisheries, Natural Resources Access Regulator (**NRAR**), Wollondilly Shire Council and the Tahmoor Coal Community Consultative Committee.

Myrtle Creek Rehabilitation Stage 1

Pool 23 Stage 1 rehabilitation was completed in February 2020. The remediation works consisted of drilling boreholes across the creek bed to a depth where geotechnical testing has identified the location and the extent of fracturing (characterisation phase). Fractures are then filled using an approved polyurethane injection resin (PUR). PUR has been used successfully for creek rehabilitation in Sydney Catchment Authority areas as it has minimal ecotoxicological effects and has proven highly effective to remediate subsurface fractures.

Pool 23 has now been monitored for over 33 months following rehabilitation and has been remediated successfully with post-rehabilitation surface water levels similar to pre-mining data.

Myrtle Creek Rehabilitation Stage 2

Six additional impacted sites have been remediated between October 2020 and August 2022.

Monitoring results to date are positive with significant improvement of the water holding capacity at most sites. All Stage 2 remediated Pools are in a monitoring phase for a period of at least 24 months.

Myrtle Creek Additional Works

Additional remediation works has commenced at Pool 18 and Pool 14 in September 2023 and were completed in January 2024. The additional remediation works includes the construction of an extension of the grout curtain wall at both sites in order to improve the water holding capacity.

All remediated pools are currently in a monitoring phase including surface water, groundwater, and aquatic ecology monitoring to assess the effectiveness of the remediation strategy.

No further remediation works is planned in 2024.

For More Information

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Myrtle Creek CMAP Remediation Sites



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