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# Redbank Creek

## Corrective Management Action Plan

December 2020 | Newsletter #6

### Project Background

Tahmoor Coking Coal Operations (TCCO) has been operating since 1979, and produces premium quality coking coal, which is combined with iron in the steelmaking process for production of steel.

Redbank Creek is a tributary of the Nepean River. It generally consists of Hawkesbury Sandstone bedrock with a progressive series of rock bars and pools. TCCO's longwall panels have extracted coal below Redbank Creek from Longwall 25 to Longwall 32. Longwall mining has caused subsidence impacts that has resulted in fracturing of pool beds, such that some pools only retain water after heavy periods of rain.

Subsidence movements within the vicinity of Redbank Creek have now ceased, enabling TCCO to plan and implement a remediation project to restore the pools within Redbank Creek.

TCCO have prepared a Redbank Creek Corrective Management Action Plan (**Redbank Creek CMAP**) that outlines the proposed remediation works including creek characterisation, pool mapping and pool rehabilitation works. The Redbank Creek CMAP has been approved by the NSW Resources Regulator.

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 the Tahmoor Coal Community Consultative Committee.

### Progress Report

Mapping of pools, including detailed surveying, characterization drilling, and remediation of **eight pools** and **one rock bar** (Pool 26) has been completed to date. Remediation of the rock bar involve the construction of a grout curtain wall at a depth of 12m. Boreholes are drilled at 2m apart, to a depth of 12m and Polyurethane Injection Resin (PUR) is injected into holes to create an impermeable layer that pushes water to the surface.

Remediation of the pools involved drilling small holes to a depth of 2 m and injecting an approved Polyurethane Injection Resin (PUR) to effectively seal fractures. PUR has been used successfully for creek rehabilitation in Sydney Catchment Authority areas as it has minimal ecotoxicological effects and has proven highly effective.

Preliminary evidence at the remediation sites suggests a greatly increased capacity for the pools to hold water.

### Pools 19, 20 and 21

Remediation works at three pools is scheduled to commence in the week of 11<sup>th</sup> January 2021. Characterisation drilling and geotechnical testing has been completed in December 2020 at pool 19. The purpose of the characterisation is intended to map the fracture network that may exist in the rock strata prior to starting the works.

Remediation works include the construction of a grout curtain wall at Pool 19, and grouting of the upper 2m at Pools 20, 21 using PUR injection.

Works will be conducted between **6:00 am to 5:00pm, Monday to Friday** and are expected to be completed in June 2021.

### Future Works

Further remediation works are currently being planned at other affected sites at Redbank Creek.

### For More Information

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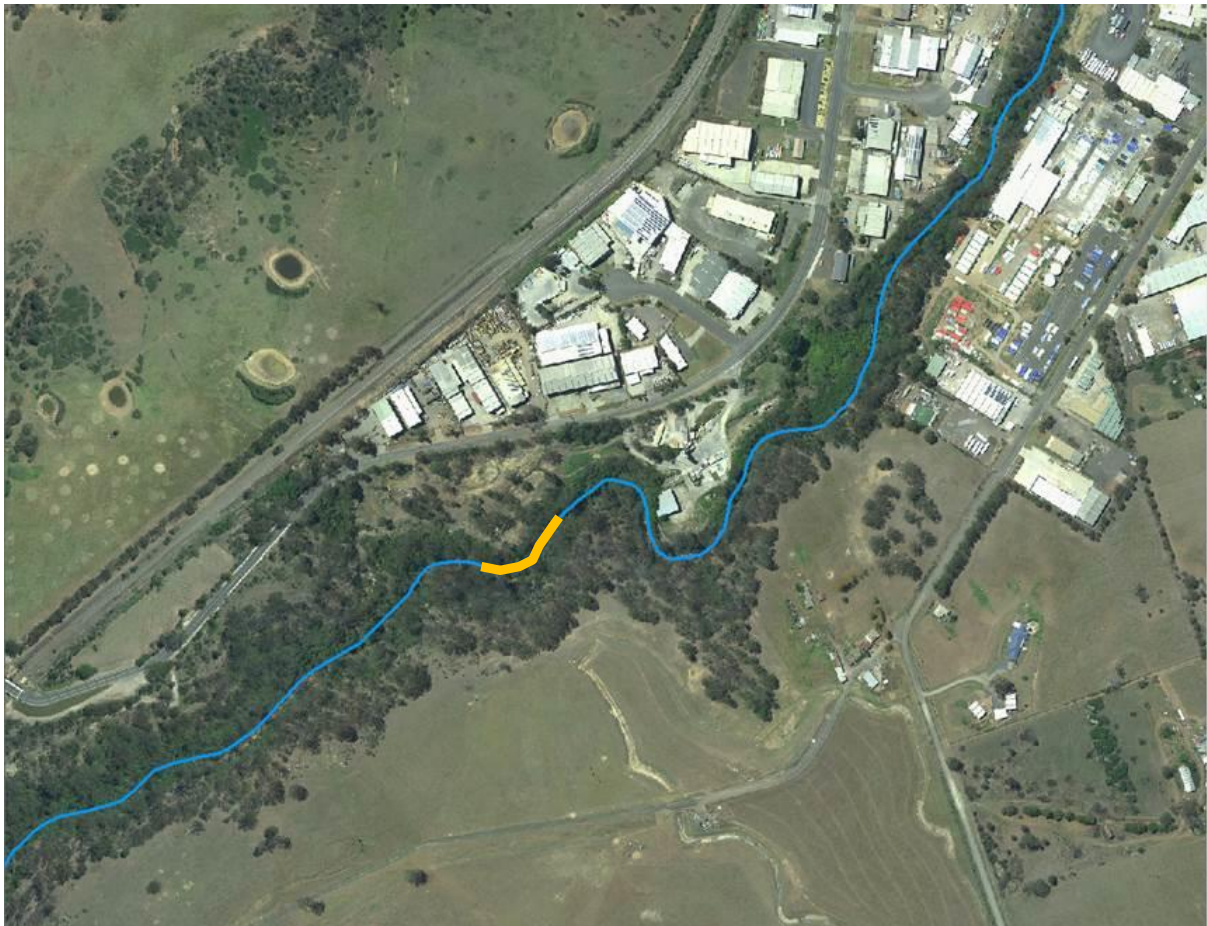


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Figure 1: Pool 19, 20, 21 locations



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