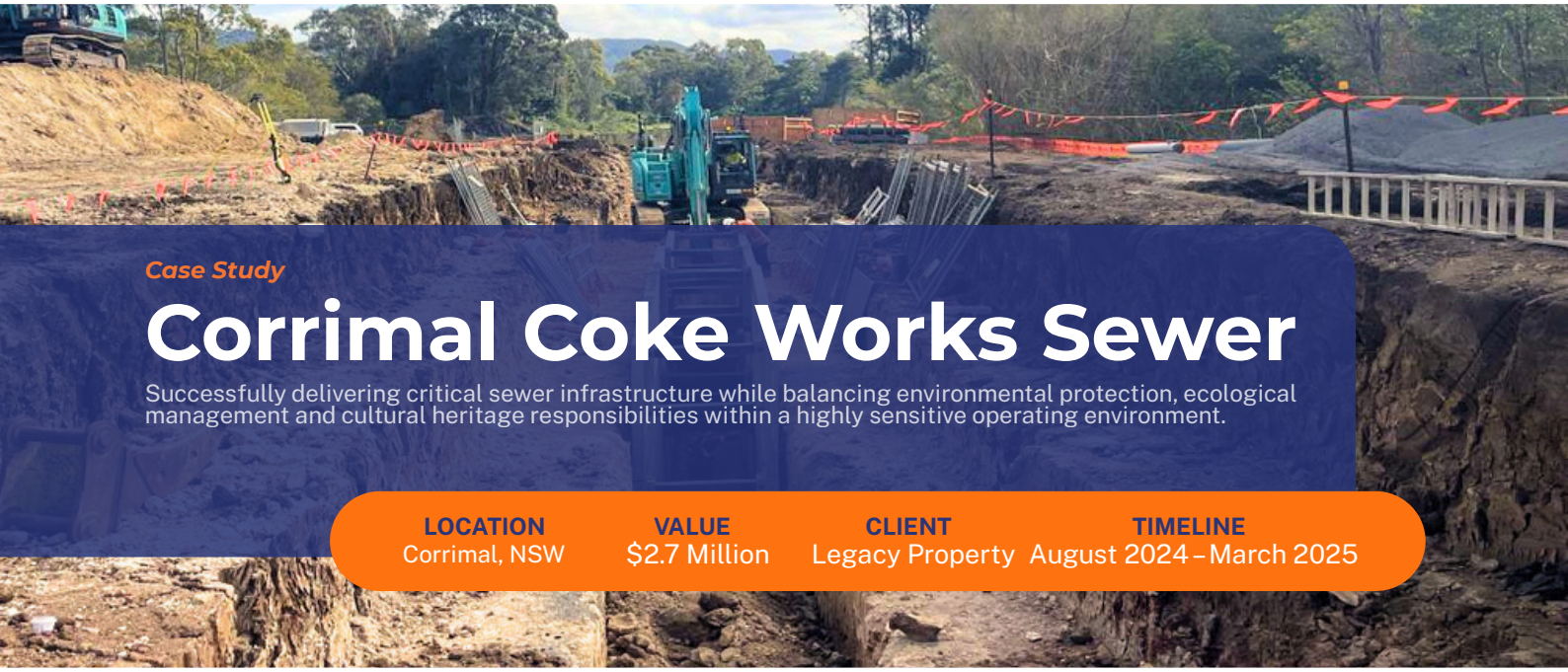


Case Study

Corrimal Coke Works Sewer

Successfully delivering critical sewer infrastructure while balancing environmental protection, ecological management and cultural heritage responsibilities within a highly sensitive operating environment.

LOCATION	VALUE	CLIENT	TIMELINE
Corrimal, NSW	$2.7 Million	Legacy Property	August 2024 – March 2025

Project Overview

RA Smith Contracting was engaged by Legacy Property to deliver Sydney Water sewer infrastructure upgrades and enabling works as part of the future redevelopment of the former Corrimal Coke Works site.

The project involved the realignment of existing sewer infrastructure, extensive site preparation activities and the construction of a new gravity sewer main to support future development of the site. Working within a highly constrained environment, the team was required to balance construction delivery with environmental protection, ecological management and cultural heritage obligations.

The Challenge

Unlike many infrastructure projects, the primary challenge at Corrimal was not the construction itself, but the sensitive environment in which the works were required to take place.

The project was located adjacent to a Grey-Headed Flying Fox camp, a vulnerable species habitat requiring strict controls around noise, lighting and work activities. In addition, excavation and earthworks activities presented ongoing risks associated with sediment movement and environmental protection, particularly during adverse weather conditions.

The site also contained areas of Aboriginal cultural significance that required management under an Aboriginal Heritage Impact Permit (AHIP). Delivering the sewer infrastructure while protecting environmental and cultural heritage values required careful planning, stakeholder consultation and strict compliance throughout the project lifecycle.

Successfully delivering the project would require a contractor capable of balancing construction efficiency with environmental stewardship and cultural heritage responsibilities.



The Solution

Drawing on extensive experience delivering infrastructure works in environmentally sensitive environments, RA Smith implemented a proactive project approach focused on risk management, compliance and stakeholder collaboration.

To minimise environmental impacts, the team established comprehensive erosion and sediment control measures, including silt fencing and sediment management systems designed to protect surrounding waterways and habitats throughout construction activities.

Working within proximity of the Grey-Headed Flying Fox camp, construction methodologies were carefully adapted to reduce potential disturbance. Work activities, noise generation and site lighting were managed in accordance with project requirements to support the protection of the species and its habitat.

RA Smith also worked closely with stakeholders to ensure compliance with cultural heritage obligations, implementing construction practices that protected identified heritage areas while allowing critical infrastructure works to progress safely and efficiently.

By integrating environmental, ecological and cultural heritage considerations into project planning and delivery, RA Smith successfully maintained project momentum while meeting all stakeholder expectations.

Project Outcome

RA Smith successfully delivered the gravity sewer infrastructure and associated enabling works required to support future development of the Corrimal Coke Works site.

Key Outcomes

- Successful delivery of 520m of DN450 gravity sewer infrastructure.
- Construction of maintenance structures and associated sewer connections.
- Completion of enabling works including site preparation, access roads, fencing and amenities.
- Effective management of environmental risks throughout construction activities.
- Protection of Grey-Headed Flying Fox habitat through adapted construction methodologies.
- Compliance with Aboriginal Heritage Impact Permit (AHIP) requirements and protection of cultural heritage areas.
- Delivery of project objectives while balancing environmental, ecological and cultural heritage responsibilities.

Beyond the successful delivery of the sewer infrastructure, the project demonstrated RA Smith's ability to manage complex stakeholder requirements and deliver practical infrastructure solutions within highly sensitive environments. Through proactive planning, strong compliance processes and collaborative project delivery, the team achieved construction outcomes without compromising environmental or cultural heritage values.

Technical Scope

Enabling Works

- Site clearing and grubbing.
- Bulk earthworks.
- Construction of temporary access roads.
- Installation of temporary fencing and site amenities.
- Potholing investigations to obtain A-Class utility data and confirm connection locations.

Pressure Sewer Works

- Installation of 520m DN450 polypropylene gravity sewer at an average depth of 6.5m.
- Concrete encasement of 218m of sewer pipeline.
- Construction of three DN1200 manholes and one DN1800 manhole.
- Concurrent sewer connections under Sydney Water Flow Isolation and Flow Management (FIFM) requirements.
- Foundation, compaction, air, vacuum, CCTV and ovality testing.



Why Clients Partner With RA Smith

Infrastructure projects often extend beyond construction challenges alone.

The Corrimal Coke Works Sewer Project highlights RA Smith's ability to successfully deliver essential infrastructure while managing complex environmental, ecological and cultural heritage obligations.

By combining technical expertise with proactive stakeholder engagement and a strong commitment to compliance, RA Smith helped minimise project risk, maintain programme certainty and achieve successful outcomes in a highly sensitive operating environment.

For clients, this capability provides confidence that critical infrastructure can be delivered responsibly, efficiently and in accordance with even the most stringent project requirements.