

# CASE STUDY



## PROJECT GROUNDWATER TREATMENT FOR MOTORWAY TUNNEL

**PRODUCT** Gravity Clarification

**INDUSTRY** Infrastructure

**LOCATION** Brisbane, Queensland

### BACKGROUND

The first major road tunnel in Brisbane, The Clem Jones Tunnel (Clem7) is a 6.8 km toll tunnel that connects Brisbane's inner north to the southern and eastern suburbs, bypassing the Brisbane CBD.

Clem7 required a water treatment system to treat the groundwater from the tunnel, eliminating the need to discharge large volumes of water to the sewer or risk pollution of local waterways.

### SOLUTION

Clearmake, a MAK Water company, was selected to design, manufacture, install and commission a groundwater treatment system for the tunnel, working in partnership with a civil construction company and their consultants. The system developed treats up to 36,000L per hour removing heavy metals and other contaminants from the ground water so it can be safely discharged to local waterways.

### COMPLIANCE

- The system meets all planning and regulatory requirements

### COST EFFECTIVE

- Optimised design to ensure minimal capital investment and operational costs

### RESULTS AND BENEFITS

- **Environmental Protection.** The water is treated to a standard that enables it to be discharged to the local waterways without risk of contamination.
- **Lowest total operating cost.** By treating the water for discharge to environment the need to pay for discharge to sewer is negated.
- **Turnkey solution.** Clearmake provided a full suite of services including design, manufacture, installation, and commissioning.



*Installation of the Gravity Clarifier on site for the Clem7 Tunnel*



*The completed Clem7 Tunnel*