

# Providing treatment and reuse schemes to satisfy the needs of communities and industry



TRILITY Designed, Built, Financed and Operates (DBFO) the wastewater treatment and reuse scheme for the Berri-Barmera Council in South Australia's Riverland.



# The SA Riverland region relies heavily on the over allocated River Murray and reuse water supply provides a much needed alternative water source to help ensure an environmentally sustainable future for the region.

The new facilities were designed to transfer wastewater from local residential properties and trade effluent from a local large winery to the new Wastewater Treatment Plants (WWTPs).

The plants utilise a combination of enhanced lagoon-based treatment with High Density Polyethylene (HDPE) lined facultative lagoons, pressure screen filtration and chlorination processes prior to the distribution of the Class B standard reuse water. Pumping stations and new pipelines enable the transfer of treated effluent to demand areas.

The project provides a disposal path for industrial wastewater and the treated effluent is used to irrigate the local golf courses and parklands, reducing reliance on the River Murray.



## Who

Berri Barmera Council covers an area of approximately 508km<sup>2</sup> and incorporates the townships of Berri, Barmera, Cobdogla, Loveday, Monash, Glossop, Winkie and Overland Corner with a total population of approximately 11,000.

## What

Four WWTPs that process effluent collected from approximately 4,000 septic tank connections and an upgrade of the existing treatment facility that treats wastewater from a winery's production facilities. Three effluent pumping stations and 32km of pipelines.

## Where

Barmera, Berri and Glossop, approximately 220km north-east of Adelaide in South Australia's Riverland region.

## Why

The region relies heavily on irrigation from the River Murray and this water supply provides an alternative to reduce the draw from the river, helping to ensure an environmentally sustainable future for the region.

## Snapshot

Client	Berri Barmera Council
Type of Contract	Design, Build, Finance, Operate (DBFO)
Facilities	Four wastewater treatment plants Three pumping stations Four reuse end user irrigation sites
Technology	Sequence Batch Reactor and facultative lagoon treatment plants
Design Capacity	1.5 ML/d
Term	25 years
Capital Cost	c. \$14m