



## CASE STUDIES



WRP before demolition, Victoria



WRP after demolition, Victoria

### RECYCLE. REPURPOSE. DEMOLITION SUPPORTING A CIRCULAR ECONOMY

Responsible asset disposal and reallocation is an important enabler for our future operations. It reduces Iluka's rehabilitation liability and minimises waste through recycling and repurposing.

Iluka is halfway through the execution of a five-year demolition strategy that is removing redundant assets across its Australian sites. In 2019, demolition activities were completed for the product silos at the Geraldton wharf in Western Australia, and the Wornack, Rownack, Pirro (WRP), Kulwin and Douglas plants in Victoria.

Demolition involves removing the ground infrastructure (pylon, steelworks) and in-ground services (power, water) in order to clear the site ahead of rehabilitation activities. The team's approach is to prepare the whole site via a non-intrusive interaction, identify the items for removal (recycle, disposal and repurpose) and commence the demolition. Hydraulic pinchers are used to cut at strategic engineering design points and carefully remove for disposal or repurpose.

*"We recycle as much as we can to minimise the amount of waste generated and safely dispose of contaminated materials through the appropriate channels."*

Andres Yep, Asset Manager

The removed equipment becomes part of the surplus and redundant equipment programme which is available to projects and sites. Cataby is an example of repurposing, which uses equipment from Western Australia, South Australia, Victoria and Queensland, which reduced the capital cost of the project by approximately \$100 million. The Ambrosia mine move repurposed equipment and the Eneabba mineral sands recovery project will be following suit. Iluka has also donated old equipment for students to practice assembling and disassembling at the TAFE near Gingin, Western Australia.