

# ROADTRAIN® PACKAGED SEWAGE PLANT FOR WUJAL WUJAL COUNCIL

## CASE STUDY



### THE CLIENT

Wujal Wujal Aboriginal Shire Council is located on the north and south sides of the Bloomfield River in Northern Queensland.

### OVERVIEW

The plant is to be protected by a primary settling tank, will provide for primary removal of BOD, suspended solids and TOG.

The biological system consists of a pre-anoxic tank, for nitrate removal, a single RBC unit equipped with 3 internal cascades, for BOD and ammonia oxidation, and a de-oxygenation tank for the removal of residual oxygen from the RBC unit, generating a low oxygen feed for the pre-anoxic tank.

The treated secondary effluent is further polished in a tertiary sand filtration system.



The Roadtrain® treatment system included:

- Mixed Equalisation Tank
- Fine Screening for solids removal
- Pre-Anoxic zone
- Rotating Biological Contactor
- De-oxygenation tank
- Secondary Clarification
- Tertiary Sand Filtration
- Chem P removal
- UV Disinfection
- Sludge Drying Beds
- Controls and HMI

RoadTrain® systems are ideal for remote locations, where a robust process and mechanical design along with minimal operator attendance is required.

Item	Value
Capacity	205 m3/d
Process	RBC Based
BOD Limit	5 mg/L 80%ile
Turbidity	2 NTU
TN Limit	10 mg/L 80%ile
TP Limit	1 mg/L 80%ile
Faecal Coliforms	10 cfu/100mL 80%ile
Year	2006