



dioxide
PACIFIC

CASE STUDY
FLUORIDE DOSING



Client SKM / Rio Tinto

Dioxide's Role Principal contractor

Project Description Design and construction of a fluoride dosing facility as part of the Coastal Water Project. The Coastal Water Project supplies water into the West Pilbara Water Supply Scheme. Water is collected from Bores at the Bungaroo Valley. It is set to deliver 10 GL/year of potable water.

Works Undertaken

- Design and construct of fluoride bulk storage, dosing and electrical control rooms within two transportable concrete buildings in Sydney.
- Site installation including: concrete unloading apron, electrical supply, waste collection tank and dosing and carrier water lines.

Dosing equipment:

- 2 x 10kL bulk storage tanks
- 2 x dosing skids
- Day tank and transfer pump
- Transfer panel

Site Details

- Bungaroo Transfer Pump Station facility.
- Located near Pannawonica in the Pilbara region of Western Australia.
- 200 kms south of Karratha or 1600kms north of Perth.

Highlights and Innovations

- Transportation and site placement of 35 and 60 tonne concrete buildings.
- Integration of system to meet mine specification requirements.
- Hardwired interlocks.
- All work and methodology had to meet mine site requirements.



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