



NORTHERN REFUELING MAINTENANCE PTY. LTD.

CALTEX – CAIRNS AIRPORT JUHI Centralised Quickflush / Dewatering



Customer: Cairns Airport JUHI
NRM Customer: Caltex
Project Value: \$200,000
Period of Project: April – May 2011
Description of Project:



NRM, Cairns
Cairns Airport

In March, 2011 Northern Refueling Maintenance were requested to provide design and construct services for the proposed Centralised Quickflush Dewatering facility at the Cairns International Airport Joint User Hydrant Installation (JUHI).

Major works included in NRM's scope were:

- Provide an Engineering Assessment on the feasibility of the proposed project.
- Develop and provide engineering design AutoCAD drawings for the systems and equipment.
- Provide a Hazard Operations Analysis (HAZOP) on the proposed system within the existing facility.
- Assist the client in seeking and gaining approval and funding.
- Design and construction of a transportable cyclone approved skid and shelter.
- Supply and installation of an 800 L dewatering vessel.
- Shop fabrication and testing of quickflush skid / shelter.
- Installation of the quickflush skid / shelter
- Supply and installation of the interconnecting pipe work between the tank, Card Swipe and the new pump/filtration skid.
- Coordinate works to maintain operational capability of the existing facility.
- Electrical connection and interfacing with existing facility.
- Commissioning of complete installation.
- Decommission existing localised quickflush services.
- Customer consultation and customisation during the complete build project.

The design challenges of providing a facility that would be cyclone rated, compact, transportable and functionally operable to the client's requirements was enjoyed by NRM's design engineering team. Customising the product to suit the operational and personal safety requirements whilst integrating it with no restrictions to the facilities capability was key to the customer's satisfaction.