



Sarina Golf Course Irrigation System Upgrade

Customer: Sarina Golf Club

Location: Sarina, QLD

Case Study ID: CS-92

Date: July 2013

Overview

Sarina Golf Club engaged Dowdens Pumping and Water Treatment to re-engineer a poorly functioning whole course irrigation system. The existing system was not operating correctly, resulting in severe underwatering of the course and high power usage.

The Problem

The existing pumps, electronic pump control systems and automatic filtration system were not commissioned correctly by another pumping irrigation supplier. Dowdens Pumping and Water Treatment irrigation specialists carried out overnight flow logging. The results showed that the pumps were starting and stopping up to 40 times an hour, sometimes shutting off completely, resulting in high power usage and elevated wear on the pumps and irrigation system.

Head Office

9-15 Industrial St
Mackay QLD 4740
Ph: +61 7 4969 4949
Email: info@dowdens.com.au

Brisbane Office

24/140 Wecker Road
Mansfield QLD 4122
Ph: +61 7 3828 7000
Email: brisbane@dowdens.com.au

Rockhampton Office

4/415 Yaamba Road
Park Avenue QLD 4701
Ph: +61 7 4923 6969
Email: info@dowdens.com.au

Proserpine Office

2 Mann St
Proserpine QLD 4800
Ph: +61 7 4969 4940
Email: info@dowdens.com.au



Our Solution

A detailed survey of the pump and filter systems and their installation was carried out, then detailed course plans and irrigation control data was obtained, allowing Dowdens' Irrigation Design Specialists and electrical installation staff to determine and then rectify these problems.

Dowdens' Irrigation Design Specialists identified problems with one of the existing submersible pumps – it was removed, serviced by Dowdens Pumping and Water Treatment's infield technicians and then reinstalled. The Variable Frequency Drive (VFD) was reset to the correct flow usage for the course, and the existing central controller was reprogrammed. Two new TORO Satellite Field Controllers were installed with trenched power supply and cabling – these were connected to the existing central control system.

Key Components & Features

- Two new TORO Satellite Field Controllers installed and commissioned, and connected to the existing central controller.
- Service existing faulty submersible pump & reinstall
- Variable Frequency Drive (VFD) was reset to the correct flow usage

Project Design Philosophy

Dowdens Pumping & Water Treatment's design philosophy for this project was:

- Cost-Effectiveness
- Current Best Practice
- Ease of Installation
- Simple & Effective System Operation
- System Reliability
- Reduced Ongoing Maintenance Requirements

Head Office

9-15 Industrial St
Mackay QLD 4740
Ph: +61 7 4969 4949
Email: info@dowdens.com.au

Brisbane Office

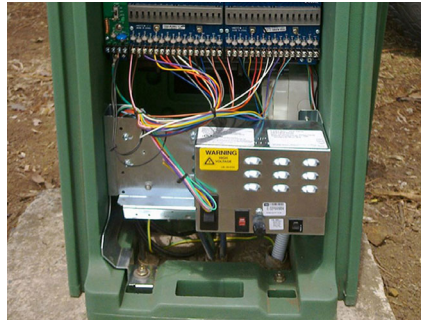
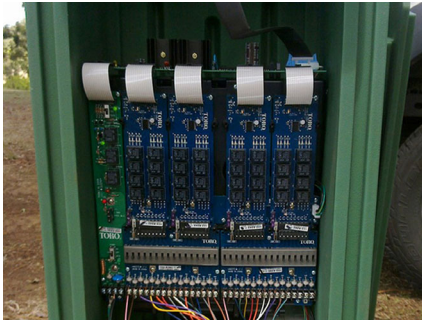
24/140 Wecker Road
Mansfield QLD 4122
Ph: +61 7 3828 7000
Email: brisbane@dowdens.com.au

Rockhampton Office

4/415 Yaamba Road
Park Avenue QLD 4701
Ph: +61 7 4923 6969
Email: info@dowdens.com.au

Proserpine Office

2 Mann St
Proserpine QLD 4800
Ph: +61 7 4969 4940
Email: info@dowdens.com.au



Brands used in this project



Head Office

9-15 Industrial St
Mackay QLD 4740
Ph: +61 7 4969 4949
Email: info@dowdens.com.au

Brisbane Office

24/140 Wecker Road
Mansfield QLD 4122
Ph: +61 7 3828 7000
Email: brisbane@dowdens.com.au

Rockhampton Office

4/415 Yaamba Road
Park Avenue QLD 4701
Ph: +61 7 4923 6969
Email: info@dowdens.com.au

Proserpine Office

2 Mann St
Proserpine QLD 4800
Ph: +61 7 4969 4940
Email: info@dowdens.com.au