

## MAJOR WATER UTILITY SEWAGE PUMP STATION ELECTRICAL & ODOUR CONTROL UPGRADE

"My room isn't dirty, I just have everything on display" - Every Teenager Ever

Industry Utilities

Sector Water & Sewerage Seament

Sewage



## **Project**

The client is a water and sewerage utility responsible for managing over \$2bn worth of assets. They had identified that one of their key metropolitan sewage pump stations was the subject of numerous odour complaints. On investigation it was identified that there was a presence of Hydrogen Sulfide causing the odour and the electrical systems at the site had also reached end of life. The client then initiated a project to:

- install an odour control system and integrate it into the site control
- replace the motor control systems;
- upgrade the telemetry:
- install an emergency backup generator.

Cromarty Automation was engaged by the principal contractor to provide all electrical and automation services.

## Solution

Cromarty Automation worked collaboratively with the client and the principal contractor to design and deliver the following:

- The entire electrical and control system including the supply and installation of a new motor control. centre, backup generator, instrumentation, telemetry and
- ClearSCADA development and integration into the client's head end SCADA.
- Pre-commissioning and final commissioning
- In one day decommission the old and install the new MCC.
- Liaising with the principal contractor to ensure safety requirements were met.
- Co-ordinate with the supply authority for power isolation and reinstatement.
- Design of temporary control during the changeover.
- Working with the client to manage the effluent during the changeover.



commenced at 8am and the site was returned to full automatic operation and SCADA monitoring by 8pm the same day without any environmental issues or service interruptions

Subsequently, the odour control system has resulted in a significant reduction of odour complaints. It now has enhanced Hydrogen Sulfide monitoring and alarming, a state-of-the-art control system and an emergency power supply to keep the site operational - all in all a great environmental and operational result.