Retroflo

ELECTRICAL · MECHANICAL · INSTRUMENTATION · CONTROL · AUTOMATION

CASE STUDY

CLIENT

Northumbrian Water Group

PROJECT

Moorhouses Pumping
Station Abandonment
Located in North Shields

SCOPE OF WORK

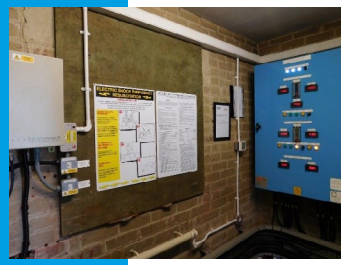
- Install new DB, Control Panel and Telemetry outstation
- New mains generator incomer.
- Station upgraded to TT earthing system to comply with NWG policy
- Installation of 2 No. Electrically Operated valves and 1 No. Pressure Reducing Valve

DATE

Jan 2014 – June 2014

PROJECT VALUE

£30,000



MOORHOUSES PUMPING STATION ABANDONMENT

Chirton Meter Station

The meter station houses the control and monitoring for the existing valves. The scope included replacing the building services and Distribution Board, a new control panel and telemetry outstation within the station building, while maintaining the existing control and telemetry. A new mains generator incomer was installed and the station earthing system upgraded to TT to comply with NWG regulations.

Valve Chambers

There were 2-no. Electrically Operated Valves (EOVs) and 1-no. Pressure Reducing Valve (PRV) within 2-no. valve chambers. Each valve had control via open/close solenoids.

Instrumentation consisted of a flow meter wired back to a flow controller in the Meter Station, and onto telemetry. Upstream and downstream pressure indication wired back to the control panel in the Meter Station, and repeated onto telemetry for use by SCADA as part of the valve control. The valve chambers were also fitted with sockets to power sump pumps as required.

The installation work, both in the Meter Station and the valve chambers, was carried out and fully tested to BS7671, and adhering to Retroflo's strict Health and Safety Precautions.

All works, including commissioning, bringing on line of the new valves, control equipment, changing over of telemetry and control from the old control equipment to the new panel, was carried out with no unplanned disruption to drinking water distribution to North Tyneside.