



The Coal
Authority

Site Information

PROJECT TITLE:	Taining Drain Subsidence Pumping Station MEP Works 2017
CONTRACT REF:	CA18/1/10/2556
Cost Centre:	3110
Project Code:	EV00315B
Account Code:	40122
Capex Code:	501
DOCUMENT REF:	Site Information
DATE:	30 th May 2017
CA Project Manager:	John Rowlands

**Taining Drain Subsidence Pumping Station MEP Works 2017
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Introduction

The Coal Authority provide contributions to the operation and maintenance as well as capital costs of 75 land drainage pumping stations across the UK, within the Selby Area Internal Drainage Board district, Ouse & Derwent IDB, Doncaster East IDB, Danvm Commissioner's IDB, Black Drain IDB, Isle of Axeholme and directly managed by The Coal Authority.

The forward programme for 2016/17 Subsidence Pumping Stations (SPS's) had identified the need for Capital work at five Subsidence Pumping Stations that are funded by the Coal Authority and operated and managed by the Danvm Drainage Commissioners, the Ouse & Derwent Internal Drainage Board, Selby Area Internal Drainage Board, and Doncaster East IDB. However this Site Information only covers the Taining Drain SPS. The details of this one station and its respective third party is as follows:-

No	CA Site Code	Name	Drainage Board/ Operator
1	855	Taining Drain	Danvm Commissioner's

J N Bentley (JNB) had been tasked via a Professional Services Contract (PSC) by The Coal Authority to inspect the above mentioned site and provide an ECI Site Inspection Report as part of the scope of the deliverables in the PSC.

From these inspections and the submitted ECI reports a list of works was produced and this Site Information is for the works deemed as required as the Mechanical, Electrical and Pumping (MEP) requirements as identified within the ECI reports, as the items previously highlighted as being required under a health and safety requirement, have already been let via a separate contract.

The ECI reports provided by JNB should be read in conjunction with this site information and the works instruction for this project.

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1.1 Taining Drain Pumping Station

1.1.1 Description

Taining Drain Pumping Station, located 0.3 km South-East of Fishlake, Doncaster at grid reference SE 655 130, it is accessed off Church Street via a gated track known as River Lane. The SPS is maintained by the Danvm Commissioner's Drainage board and receives 100% contribution from the Coal Authority.

The station was commissioned in 1986 and discharges surface water into the River Don. The station provides land drainage for 225 hectares of agricultural land by means of two number Pumps which provide a total capacity of 400 litres per second.



1.1.2 Mechanical Equipment

The station includes two submersible pumps manufactured by TT Pumps and installed with the original commission.

Pump no.1 (serial no. n/a) has a capacity of 200 l/s, a 25 kW motor, a soft start ASD starting type, (To be confirmed as part of PSC)

Pump no.2 (serial no. n/a) has a capacity of 200 l/s, a 25 kW motor, a soft start ASD starting type, (To be confirmed as part of PSC)

There is a manual raked Weed screen present on the intake drain.

1.1.3 Electrical Equipment

The station is powered by a 3 phase incoming supply with a separate isolator and a LV meter installed with the original commission, providing a supply rating of 160 amps (As confirmed in PSC ECI Report)

The pump control panel is installed on the first floor, there is wall mounted Controlstar Telemetry system which interfaces with the MCC and controls and Monitors the station remotely

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1.1.4 Structures

The pumping station comprises a reinforced concrete pump sump, valve chamber, and inlet structure, all incorporating steel sheet piled walls, and a separate concrete and brick building, housing the control equipment, all of which are surrounded by chain link fencing.

The control building is of two storey height to elevate all electrical control panels above the flood level and is accessed by an external steel stairs. The pumped outlet terminates in a reinforced concrete and sheet pile discharge bay.