CONCRETE PIPE INSTALLED IN CHANGING GROUND CONDITIONS | CASE STUDY

PROJECT CLIENT:
COLAS LIMITED UK

PIPE DIAMETER:
DN450

GROUND CONDITIONS:
STIFF SANDY GRAVELLY CLAY WITH SANDSTONE LAYERS

PIPE MATERIAL:
REINFORCED CONCRETE

INSTALLATION MACHINE:
GAB85V GUIDED AUGER BORE WITH OPTICAL GUIDANCE SYSTEM

PROJECT OVERVIEW

Murton Gap Phase 3 project, required the construction of a sustainable drainage system (SuDS) corridor to intercept and attenuate surface water draining from Murton Gap and to discharge it to the existing surface water sewer that drains to Marden Quarry.

DESCRIPTION OF WORKS

From a 2.4 diameter caisson drive shaft 35 metres of DN450 Tracy Concrete jacking pipe was installed under a 15" CICL and a 12" CICL water main to a 1.75 metre square trench sheeted reception shaft.

During pipe installation the ground conditions changed and layers of sandstone were encountered, this required the addition of high-pressure water to be introduced.

CLIENTS REMARKS

More than happy with the work you have delivered at Murton Gap and the attitude of your workforce.

I hope there are future opportunities where we can work together again.

David Lynn
BSc (Hons) Eng Tech MCIHT MCIOB
Chartered Construction Manager
Project Manager
Colas Limited