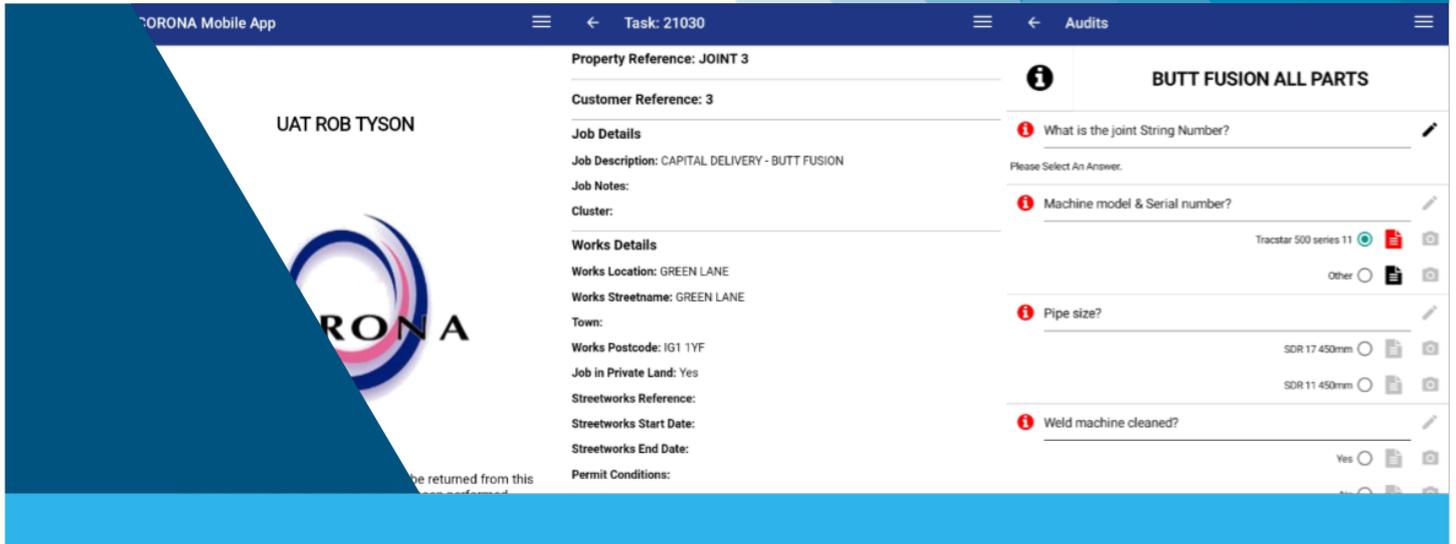


# JB Assured



## Introduction

We have developed an assurance system and application called JB Assured based on utilising the functionality of our integrated Workflow Management System, CORONA and a third-party joint system to check and validate pipeline joint integrity and asset information. It links our Early Contractor Involvement activities, design, construction, testing and commissioning to give a fully assured product for handover. We use Corona on large maintenance frameworks for Thames Water, South East Water, Southern Water and Affinity Water and have developed the capability to apply the technology to pipeline projects to assure quality and avoid any expensive rework.

## JB Assured

This system is used on project work to track the build quality at all stages of pipeline construction and ensure adherence to the Water Industry Specification (WIS 4-32-0). The system does the following:

- Joint integrity – each joint is assessed with real time pass/fail confirmation
- GPS location of joint
- Machine model details
- Pipe details
- Operator/welder details for each joint (accountability)
- Temperature recording of jointing equipment (plates)

- Depth of joint & backfill layer photos
- Escalation process in the event of failure (transparency)

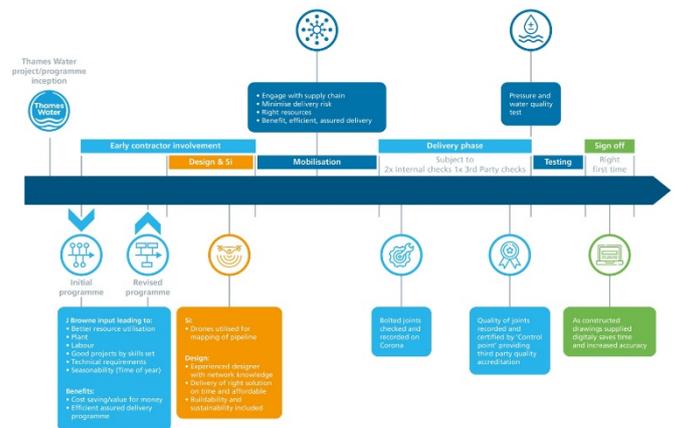


Figure 1: JB Assured is a major part of our Right First Time approach

## Childrey Warren

J Browne has constructed a new 6.0km, 450mm HDPE SDR17 potable water trunk main between Lark Hill reservoir and Childrey Warren WTW. This pipe-laying follows on from two previous stages of the project successfully delivered by J Browne for SMB involving the pre-construction and enabling phase. We delivered over 1000 joints without any defect thanks to a rigorous assurance process using our workflow management system Corona to construction at every stage and Control point to monitor joint integrity.