

Sydney Water – Prospect South to Macarthur (ProMac)

New and updated pipelines and pump stations for the long-term support of Sydney.



Project need

As part of Sydney Water's plan to extend the water capacity and supply for the long-term prosperity of Sydney, the addition of new drinking water pipelines and upgrades to existing Liverpool & Cecil Park Reservoir pump station was necessary. The Prospect South to Macarthur (ProMac) project is intended on developing a better quality of life to those living in South Western Sydney.

This project involved the manufacture and supply of approximately 15km of pipelines and custom fittings for the new pipeline and also for the upgrades to the existing pump station.

Solution

Steel Mains was required to manufacture and supply the approximate 15km Mild Steel Cement Lined (MSCL) pipeline in a combination of diameters 813 OD, 914 OD, 1067 OD and 1219 OD in Sintalock® Type I Rubber Ring Joints; and customised fittings for each section of pipeline (including Sintalock socket ends for the bends). The project also required customised fittings for the existing pump station, and two different types of dismantling joints (compact and Steel Mains conventional). Manufacture started in early 2020 and continued into 2021 and 2022 to best align with the construction program of Sydney Water. Steel Mains' team worked closely with Sydney Water and their delivery partner Acciona together with their multiple installation contractors in successfully delivering the pipeline for this project.

Steel Mains Sintakote® fittings are manufactured to tailor to the specific needs of a project, using locally sourced materials and supporting Australian jobs. Steel construction allows for a level of flexibility that can maximise the efficiency not only for the systems operations, but also for the installation process.

Project: Sydney Water – Prospect South to Macarthur (ProMac)

Principal: Sydney Water

Location: Sydney

Completion: 2022

Supplied: 15km of 813 OD, 914 OD, 1067 OD and 1219 OD MSCL Pipeline; Sintalock®-1 Pipeline

Achievement

This project is a fantastic example of how Steel Mains can tailor to the specific requirements of a client, whilst still delivering industry defining quality in the final production. Steel Mains worked in sync with the clients predetermined program progression, and developed fittings to suit the needs of the project.

The ProMac project will ensure the water supply of South Western Sydney for generations to come, but will also allow for the city's prosperity in the present.

