

WET WEATHER OVERFLOW ABATEMENT

OIL/GAS | SEWER | STORMWATER | POWER | WATER | TELCO

LOCATION	Shoalhaven NSW	
CLIENT	Shoalhaven Water	
PIPE	125mm PE	
PRODUCT	Water	
LENGTH	4,300 metres	
TECHNIQUE	HDD & civil construction	

PROJECT OVERVIEW

UEA installed 4.3 kilometres of minor water mains for Shoalhaven Water in order to improve the water supply to a number of dairy farms, coastal towns and suburban areas. Work was located in the Nowra and Culburra Beach region and spread over 19 sites.

SCOPE OF WORKS

The principal's intent was to replace various minor water mains throughout the region of existing mains – less than DN100 with appropriately sized mains. Work involved replacing existing 40mm and 50mm mains with 125mm PE, with internal diameters of 100mm. UEA offered a complete package by performing all works by internal HDD and civil crews, including temporary water supply, supply of pipe and fittings, installation of pipes, all civil works, reconnection of 105 house services to the new main, installation of fittings, and testing and commissioning of the new main.

TECHNIQUES

The package was designed as an open trench contract, but UEA proposed HDD to reduce impact on the local community, limit disturbance to the natural surface and reduce restoration required. UEA used a combination of technologies to install the new mains – HDD, bed boring and conventional trenching techniques.

CHALLENGES AND WINS

UEA and the client worked together to overcome design issues before crews mobilised to site in order to avoid site delays. UEA's internal HDD and civil crews completed all components of the project, enabling a streamlined project with only one point of contact. The greatest challenge was the different ground conditions, including soft water charged clay, beach sand, shale and hard rock. UEA's experience, combined with the choice of drill – one of its two DitchWitch AT3020 HDD rigs capable of dealing with mixed ground conditions – allowed the team to overcome any foreseeable problems. UEA's multi-skilled and qualified civil crew has been performing this type of work for a combined total of over 20 years.