ARNCLIFFE SEWER SURCHARGE

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

PROJECT OVERVIEW

This project formed part of a Sydney Water package to upgrade sewerage infrastructure in the South Sydney region.

LOCATION	**CLIENT**	**PIPE**
Arncliffe & Banksia NSW	Monadelphous	DN225 & DN300 uPVC SJC DWV
GEOLOGY	**LENGTH**	**TECHNIQUE**
Sand, sandstone & clay	90 lineal metres & 65 lineal metres	Thrust boring & open cut

SCOPE OF WORKS

UEA's construction team was tasked with providing a turnkey package to Monadelphous for the management and installation of additional gravity sewer main works for the Sydney Water surcharge program. The works consisted of 90 lineal metres of thrust boring, 65 lineal metres of open cut excavation, as well as the installation of maintenance holes ranging in size, from DN1050 and DN1200, up to DN1800 (lined). Three of the five maintenance hole structures were constructed over an existing sewer asset.

CHALLENGES

- Groundwater encountered at close to 5.0 metres deep in the region of DN1800 MH. The client supplied a de-watering system and maintained by UEA to enable safe works.
- An existing sewer pipe required a bypass setup to enable the installation of DN1800 (lined) MH. Existing sewer line within MH was removed due to its size, shape and specification (450mm oviform nil-RRJ).
- An area of high environmental importance with a nearby waterway and a small park. UEA minimised the amount of material left on the surface and incorporated the use of large bins for material storage.
- Higher than average flow conditions during connection, while making the sewer main "live".

- House service lines for various utilities (gas, water and sewer) were encountered in unfavourable locations. UEA co-ordinated these relocations to ensure works proceeded with minimal delay.

COMPLETION

UEA delivered the project within the proposed timeframe and to the highest standard. Further works were awarded on the back of this successful project.