

PEZZIMENTI TUNNELBORE



Specialising in: **Highly Accurate, Laser-Guided Microtunnels.**

Northwest Growth Centre

Accurate Intercept Bore Overcomes Hard Ground Cobbles





The North West Growth Centre is within the boundaries of three local government areas - The Hills, Blacktown and Hawkesbury and centred on the market garden suburbs of Schofields, Riverstone and Marsden Park.

+ The Growth Centre

Comprising 16 Precincts, the North West Groth Centre is approximately 10,000 hectares and will contain about 70,000 new dwellings for 200,000 people. As part of early infrastructure works Lend Lease (then Abigroup) won Contract Packages 2 & 3A - The project has a value of \$70M.

Work Lot 16 required microtunnelling 2 drives under a highly sensitive Aboriginal artefacts area. The length of the microtunnels were 205m and 180m long.

Client
Lend Lease

Length
Total: 380m

Bore Diameter
533mm

Jacking Pipe
Ø508 Steel Sleeve

Carrier Pipe
300 GRP pipes

Ground
Saturated Clays

Grade
0.29%



+ Contract Award

Pezzimenti Tunnelbore was awarded the contract by Lend Lease. Pezzimenti engaged RA Smith Contractors to construct the launch and receive shafts for the microtunnelling.

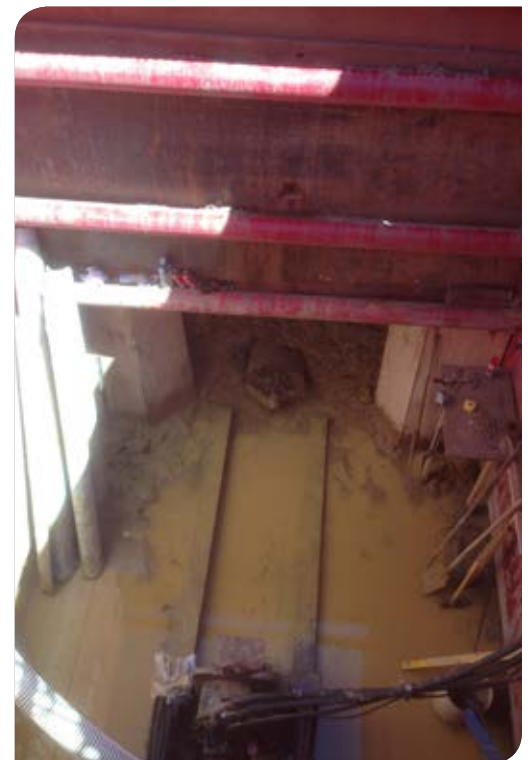
Construction

- + The 205m drive was completed in 3 weeks pipejacking a $\varnothing 508$ steel sleeve through the saturated clay and gravels at the very flat grade of 0.29%. The 300 GRP pipes were supplied by LL from Flowtite. The pipes a SN10,000 pipe with a RRJ collared pipe were sliplined into the steel sleeves and the annulus grouted.

The 180m microtunnel encountered very hard cobbles at the 94m mark and slowed progress until the 120m mark when progress was halted after encountering a 120mm cobble. Because Pezzimenti carry multiple drilling rigs and MTBM's the microtunnel was completed using the intercept method drilling from the upstream end. Excavation of the surface in the Aboriginal sensitive area was not an option.



+ Large cobbles encountered.



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For all inquiries – including Job Inspections,
Quotations and Project Feasibilities –
please don't hesitate to contact Pezzimenti
Tunnelbore. We are confident we'll hit the
mark on your next microtunneling project.

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When Accuracy Matters.