

**1500mm Dia Gardiners Creek Sewer
Replacement Project, Melbourne, Australia
(1995/96)**

(A Project for Melbourne Water)

**Melbourne
Australia**

Project Brief

TTI successfully executed two more microtunnelling projects in Melbourne, Australia. As a turnkey consultant, TTI designed and executed in association with Nissho Iwai Corporation Ltd, Australia a 600m long 1500m dia sewer installation through soils ranging from water charged stiff clay to siltstone.

For more technical details, please refer to a technical paper: "Slurry Shield tunnelling in Siltstone and Cobble Stones: Australian Experience" by Bala K Bala subramaniam and Charles Di Francesco presented at International No-Dig 96 Conference in New Orleans, USA in April 1996.

Financing Agency

Melbourne Water Corporation/VicRoads, Australia

Client Name:

VicRoads/Leighton Contractors /Nissho Iwai Corporation Ltd

Year and Period of consultancy: 1995/96 , 9 months

Length of pipeline involved

Installation of 700m long 1500mm dia replacement sewer by microtunnelling and pipejacking method

Method adopted/ systems used

Microtunnelling and Pipejacking. Iseki 1500 Crunching mole system

Role of consultant: Prime Consultant

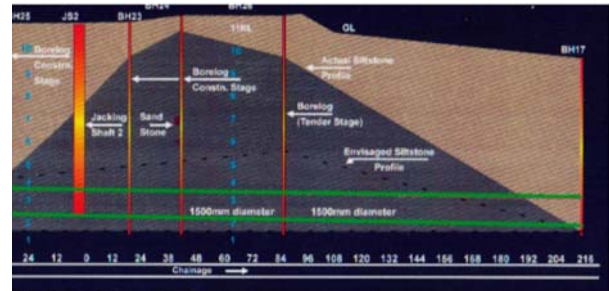
The documents prepared TTI

1. Bid documents Bill of Quantities
 2. Quality Assurance Manual for Microtunnelling works.
 3. Technical Guidelines to carry out microtunnelling works
 4. Design of Jacking and Receiving shafts
 5. Design of Jacking Pipes.
- Design of Intermediate Jacking Pipe

Value of the project (USD): US\$ 1.5 million

Publications on the project

Presented a paper titled " Slurry Shield tunnelling in Siltstone and Cobble Stones:- Australian Experience by Bala K Balasubramaniam & Charles Di Francesco, at the International No-Dig 96 Conference held in New Orleans, USA in April 1996.



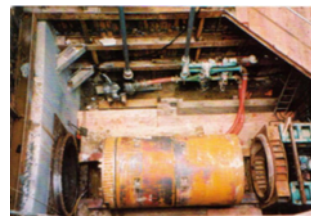
Microtunnelling through sandstone strata in Melbourne



Jacking of last pipe



Shield emerges at the pit



Shield is ready at the pit



Jacking is in progress

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