



The importance of underground construction in developing sustainable infrastructure

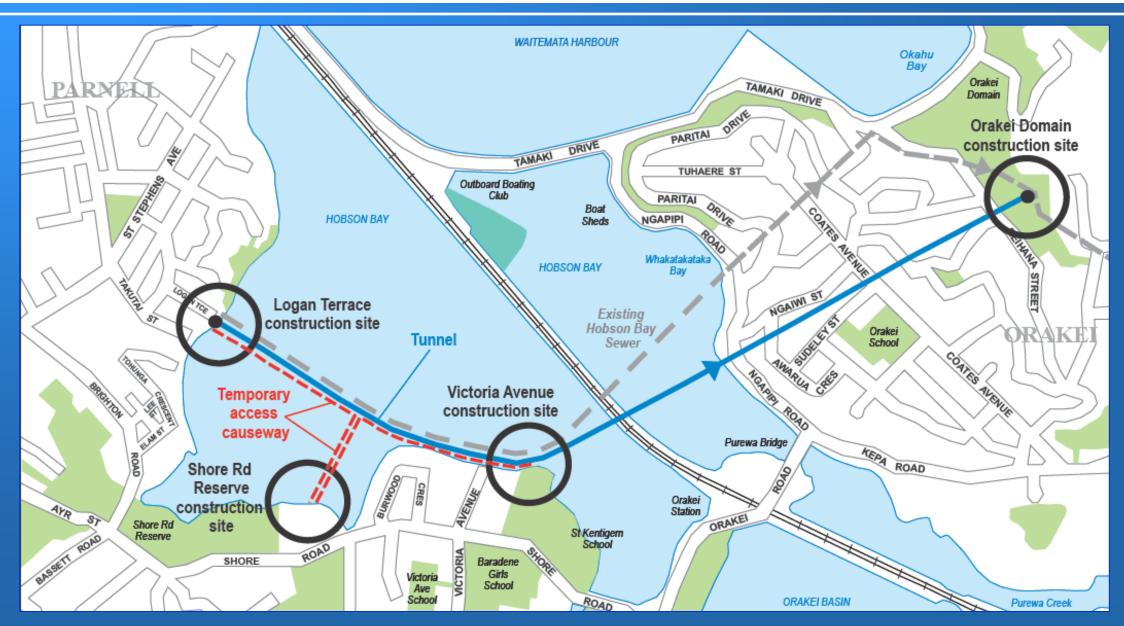
Rory Bishop

General Manager Harker

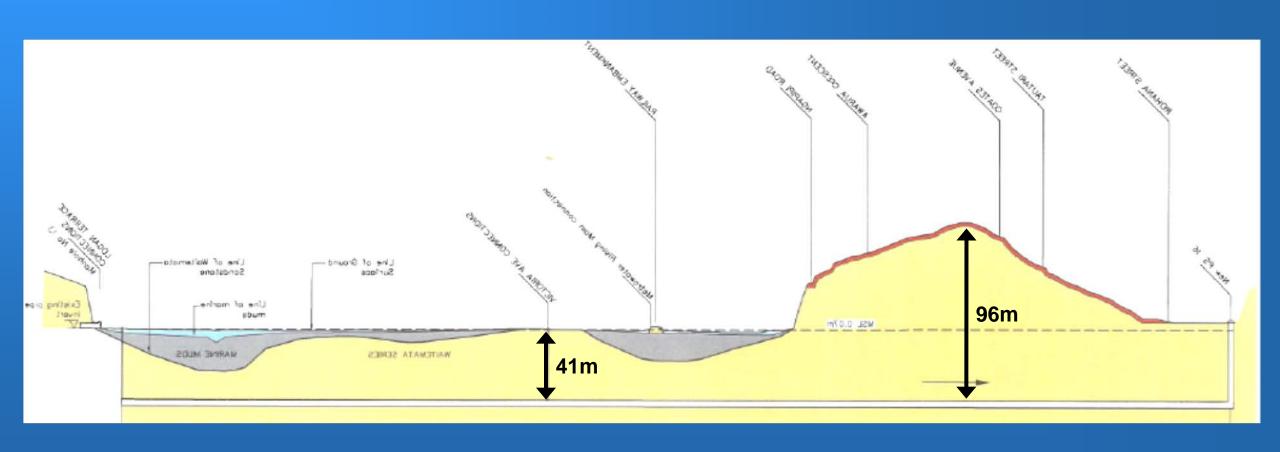


Project Owner	Watercare Services Limited
Project Management and Contract Supervision	Watercare Services Limited
Designer	SKM – Connell Wagner
Contractor	Fletcher McConnell Dowell Joint Venture (FMDJV)
Contract Value	\$113.6M
Contract Commencement	March 2007
Scheduled Operation	December 2009
Contract Completion	2010 (Demolition)

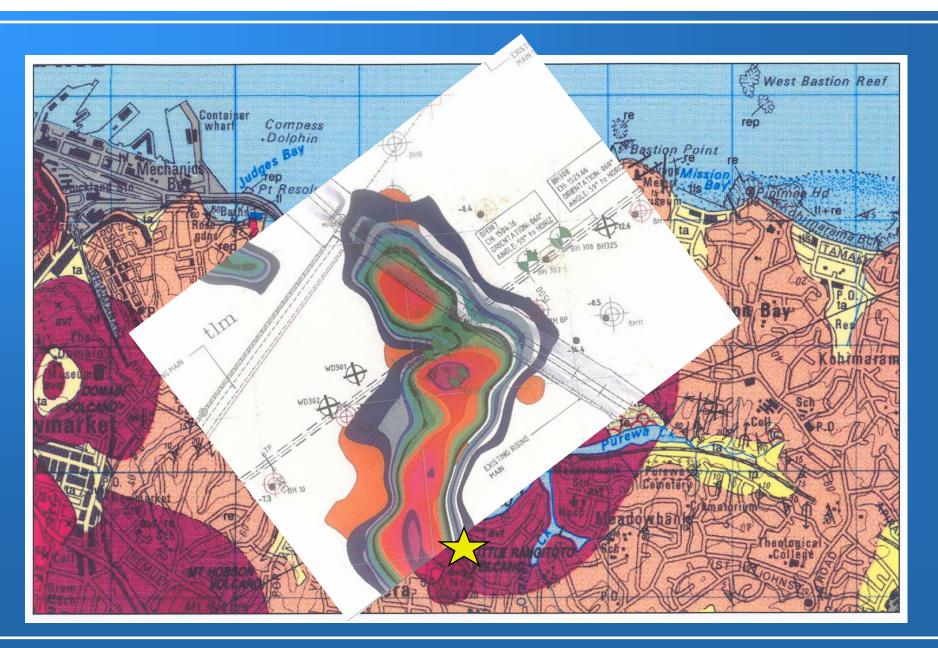




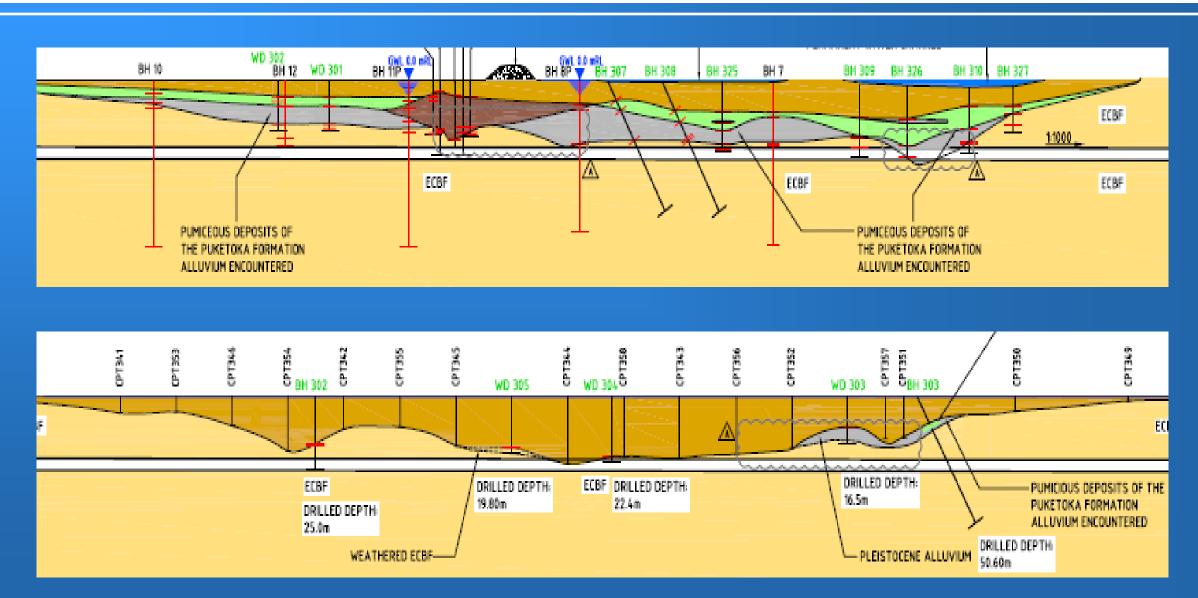


























Key local environmental benefits delivered by the project:

- Eliminate major risk associated with failure of the existing infrastructure and leaks into Hobson Bay.
- Reduce overflows from the existing system into the Waitemata Harbour by providing wet weather flow storage.
- Accommodate future growth in the city.
- Improve the amenity of Hobson Bay for local residents.



How is this scheme relevant in a Global environmental context?

- Power savings associated with pumping 3,000Mwh per annum.
- 690t of CO₂ equivalent emission.
- 150 cars per annum.
- 69,000t of CO₂ over the life of the scheme.



OVERFLOWS INTO HOBSON BAY PREVIOUSLY OCCURED 23 TIMES PER YEAR
BUT ARE VIRTUALLY ELIMINATED BY THE NEW TUNNEL

