

WASTEWATER

CENTRAL INTERCEPTOR

Stage: Construction Phase

Est. Start Aug 2019

Date:

Our Estimate: \$1,500,000,000

Location: Western Springs, Mt Roskill, Mangere, Auckland

Update: 91 (LR 2/7/2025)

Project ID: E8314

Date: 3/12/2025

Specification:

- Grey Lynn Tunnel - 4.5m dia x 1.6km gravity tunnel between 15-60m deep.
- Main Tunnel - nominally 4.5m internal dia, approx 13km long, installed by Earth Pressure Balanced (EPB) Tunnel Boring Machine (TBM) lined with a single pass concrete segmental lining.
- Link sewer B - nominally 2.4m internal dia, 1.1km long, using concrete or Fibre Reinforced Plastic (FRP) pipe installed by micro-tunnelling machine (MTBM).
- Link sewer C - nominally 2.1m internal diameter, 3.2km long, using concrete, or FRP pipe installed by MTBM.
- 16 deep shafts along the tunnel & link sewers, of which 10 are constructed as cascade drop shafts & 2 are fitted with vortex drop pipes.
- Mangere pump station constructed by slurry wall, dual cell construction together with building, mechanical & electrical fitout.
- Works in public parks, Watercare operational sites & under private property.
- Numerous connection pipelines, chambers & gates.
- Air treatment facilities.
- System wide controls & telemetry integration.
- Construction of new sewer tunnel between Western Springs & the Mangere Wastewater Treatment Plant.
- The main tunnel (4.5m dia) will be about 13km in length & will lie between 15 & 110m below ground level.
- It will cross the Manukau Harbour at a depth of about 15m below the seabed.
- The tunnel provides a total storage capacity of about 200,000 CM.
- There will be 4.04km Link sewers (up to 2.4m dia) to collect wastewater flow from parts of central Auckland & Waitakere City & transfer them to the existing Mangere wastewater treatment plant.
- The 3 main construction sites are expected to be at Western Springs, May Road in Mt Roskill & the Mangere Wastewater Treatment Plant.
- Work will also be done at 16 deep shaft sites in areas including Mt Albert, Blockhouse Bay, Mt Roskill, Hillsborough & Sandringham.
- Also includes a large pumping station, control gates, connection works & associated control, communications & M&E systems.

Description:

- Contract awarded Mar 2019 for the Central Interceptor deep tunnel sewerage system & associated works.
- Project also includes the Grey Lynn wastewater tunnel which is a 2km extension of the Central Interceptor from Tawariki Street, Grey Lynn to Western Springs - tunnel will connect to the existing Tawariki local sewer & Orakei main sewer (a drop shaft & connection works are required at 44-48 Tawariki Street, Grey Lynn & a secondary shaft at the site is planned to enable further collector sewer connections).
- Business Case completed between Jan-Jun 2021.
- (BUN60334952, LUC60334953, WAT60334954 & DIS60338392) Resource Consent granted.
- (LUS60443435) Resource Consent lodged Feb 2025 for reshaping of stream bank, Roma Road.
- (Auckland BCO10302056) Building Consent issued end Feb 2020 to install a temporary noise fence along the western boundary of the Mt Roskill site (\$120K).
- (Auckland BCO10326647) Building Consent issued mid May 2021 for tunnel boring machine (TBM) gantry shed, spoil shed required for tunnelling associated with the central interceptor project, 776 SM (\$900K).
- (Auckland BCO10364452) Building Consent issued late Jul 2023 for TBM relocation of existing gantry shed required for tunnelling associated with the CI project to Roma Road (\$900K).
- (Auckland BCO10369472) Building Consent issued late Oct 2023, Roma Road, for a closed single storey industrial building & site for the purpose of air treatment of the CI sewerage project, 1178 SM (\$3.5mill).
- Mt Roskill site shaft excavation commenced Sep 2020 for tunnelling of link sewer via micro TBM.
- Demolition of old storage tanks at Mangere WWTP underway Nov 2019 in preparation for construction of new pump station to pump wastewater from the tunnel to the plant.
- Excavation at Mangere site completed Oct 2020.
- Assembly of 165m long tunnel boring machine (TBM, named Hiwa-i-te-Rangi) completed, factory acceptance completed at the Herrenknecht factory in Schwanau, Germany.
- Disassembled TBM arrived in NZ via cargo ship (Parsifal) Nov 2020, next stage is reassembly in the shaft.
- Indicative timeline: Stage 1 (Southern Tunnel - Mt Roskill) 2019-late 2024; Stage 2 (Northern Tunnel - Western Springs) mid 2022-mid 2024; Stage 3 (Grey Lynn Tunnel) early 2023-mid 2025.
- Southern tunnel work programme: Site set up activities Aug 2019-Mar 2020; Construction of shaft structure Apr-Jul 2020; Excavation of shafts Aug-Oct 2020; Assembly of TBM end 2020; Tunnelling Apr/May 2021-early 2023; Construction of pump station late 2021-late 2023; Site reinstatement late 2023-mid 2024; Completion expected late 2026.
- Project cost estimate increased to \$1.56bill Dec 2023.
- Broke through the halfway point at May Road, Mt Roskill, of 14.7km from Mangere to Grey Lynn, Sep 2023.
- Stage 1 completion 14 Feb 2025.
- Full completion expected 2026.
- **Winner of Supreme Award at Hynds Construction Awards 2025.**
- Recycled Water Plant [AF3198](#).
- **Subcontractor added: wastewater**, concrete, airconditioning & mechanical, gas monitoring, pumps, scaffolding, portable buildings, structural steel fabrication, reinforcing steel, formwork.
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Developer: [Watercare Services Ltd](#) (David Ward, Project Manager, Phone: 09 539 7409, Email: dward@water.co.nz) Private Bag 92521, Wellesley Street, Auckland, 1141, Phone: 09 539 7300, Fax: 09 539 7334, Website: water.co.nz , Email: info@water.co.nz

Developer: [Watercare Services Ltd](#) (David White, Construction Manager) Private Bag 92521, Wellesley Street, Auckland, 1141, Phone: 09 539 7300, Fax: 09 539 7334, Website: water.co.nz , Email: info@water.co.nz

Developer: [Watercare Services Ltd](#) (Roger McRae, Strategic Advisor) Private Bag 92521, Wellesley Street, Auckland, 1141, Phone: 09 539 7300, Fax: 09 539 7334, Website: water.co.nz , Email: info@water.co.nz

Developer: [Watercare Services Ltd](#) (Shayne Cunis, Executive Programme Director) Private Bag 92521, Wellesley Street, Auckland, 1141, Phone: 09 539 7300, Fax: 09 539 7334, Website: water.co.nz , Email: info@water.co.nz

Developer: [Watercare Services Ltd](#) (Stephen Grace, Senior Engineer, Phone: 09 539 7884, Mobile: 021 995 423, Email: stephen.grace@water.co.nz.) Private Bag 92521, Wellesley Street, Auckland, 1141, Phone: 09 539 7300, Fax: 09 539 7334, Website: water.co.nz , Email: info@water.co.nz

Project Manager: [Jacobs NZ Ltd \[AKL\]](#) (Conny Wang, Construction Management & Design Support Services, Email: conny.wang@jacobs.com) PO Box 9806, Newmarket, Auckland, 1149, Phone: 09 928 5500, Website: jacobs.com , Email: mele.stone@jacobs.com

Architect (Landscape): [Isthmus Group Ltd \[AKL\]](#) PO Box 90366, Victoria Street West, Auckland, 1142, Phone: 09 309 9442, 0800 478 468, Website: isthmus.co.nz , Email: studio@isthmus.co.nz

Designer: [Arup New Zealand Ltd](#) (-, Tender Design Support/Detailed Design Services) 22 Crestview Place, Browns Bay, Auckland, 0630, Phone: 09 301 7000, Mobile: 027 428 8428, Website: [arup.com](#) , Email: [auckland@arup.com](#)

Designer: [Beca Ltd \[AKL\]](#) PO Box 6345, Wellesley Street, Auckland, 1141, Phone: 09 300 9000, Website: [beca.com](#) , Email: [rupert.hodson@beca.com](#)

Designer (Landscape): [GreensceneNZ Landscapes Ltd](#) (Allan Holmes, Grey Lynn Tunnel - Arboricultural Assessment, Email: [allan.holmes@greenscenenz.com](#)) 145 Dominion Road, Mt Eden, Auckland, 1024, Phone: 09 623 0774, Website: [greenscenenz.com](#) , Email: [info@greenscenenz.com](#)

Consulting Engineers: [AECOM New Zealand Ltd \[AKL\]](#) (-, Concept) PO Box 4241, Shortland Street, Auckland, 1140, Phone: 09 967 9200, Website: [aecom.com](#) , Email: [auckland.reception@aecom.com](#)

Consulting Engineers: [Arup New Zealand Ltd](#) 22 Crestview Place, Browns Bay, Auckland, 0630, Phone: 09 301 7000, Mobile: 027 428 8428, Website: [arup.com](#) , Email: [auckland@arup.com](#)

Consulting Engineers: [Beca Ltd \[AKL\]](#) PO Box 6345, Wellesley Street, Auckland, 1141, Phone: 09 300 9000, Fax: 09 300 9300, Website: [beca.com](#) , Email: [don.lyon@beca.com](#)

Consulting Engineers: [Jacobs NZ Ltd \[AKL\]](#) (-, PEA Detailed Design) PO Box 9806, Newmarket, Auckland, 1149, Phone: 09 928 5500, Fax: 09 928 5501, Website: [jacobs.com](#)

Consulting Engineers: [Stantec NZ \[AKL\]](#) Level 4, 105 Carlton Gore Road, Newmarket, Auckland, 1023, Phone: 09 580 4500, Website: [stantec.com](#) , Email: [aucklandbusinessservices@stantec.com](#)

Consulting Engineers: [Tonkin & Taylor \[AKL\]](#) (-, Concept) PO Box 5271, Victoria Street West, Auckland, 1142, Phone: 09 355 6000, Fax: 09 307 0265, Website: [tonkintaylor.co.nz](#) , Email: [aki@tonkintaylor.co.nz](#)

Engineer (Acoustic): [Marshall Day Acoustics Ltd \[AKL\]](#) (Matt Cottle) PO Box 5811, Wellesley Street, Auckland, 1141, Phone: 09 379 7822, Fax: 09 309 3540, Email: [auckland@marshallday.co.nz](#)

Engineer (Civil): [Envivo Ltd \[AKL\]](#) (-, Building & Asset Dilapidation Surveys) PO Box 109207, Newmarket, Auckland, 1149, Phone: 09 630 9512, Website: [envivo.co.nz](#) , Email: [info@envivo.co.nz](#)

Engineer (Geotech): [Beca Ltd \[AKL\]](#) (Ann Williams) PO Box 6345, Wellesley Street, Auckland, 1141, Phone: 09 300 9000, Fax: 09 300 9300, Website: [beca.com](#) , Email: [don.lyon@beca.com](#)

Engineer (Traffic): [Commute Transportation Traffic Consultants](#) (-, Grey Lynn Tunnel) PO Box 128259, Remuera, Auckland, 1541, Phone: 09 869 2825, Website: [commute.kiwi](#) , Email: [info@commute.kiwi](#)

Consultant: [Boffa Miskell Ltd \[AKL\]](#) (Dave Slaven, Ecological Effects Assessment) PO Box 91250, Victoria Street West, Auckland, 1142, Phone: 09 358 2526, Website: [boffamiskell.co.nz](#) , Email: [info@boffamiskell.co.nz](#)

Consultant: [Clough & Associates Ltd](#) (Richard Shakles, Archaeological Assessment) 321 Forest Hill Road, Waiatarua, Auckland, 0612, Phone: 09 814 1946, Mobile: 027 485 0059, Website: [clough.co.nz](#) , Email: [heritage@clough.co.nz](#)

Consultant: [SLR Consulting NZ Ltd \[AKL\] \(was 4Sight Consulting\)](#) (Renate Schutte, Contamination) PO Box 911310, Victoria Street West, Auckland, 1142, Phone: 09 303 0311, Website: [slrconsulting.com](#) , Email: [auckland@slrconsulting.com](#)

Consultant: [Stellar Projects Ltd \[AKL\]](#) (-, Strategic Procurement Expertise) PO Box 33915, Takapuna, Auckland, 0740, Mobile: 027 700 9443, Website: [stellarprojects.co.nz](#) , Email: [info@stellarprojects.co.nz](#)

Consultant: [The Property Group Ltd \[AKL\]](#) (-, Specialist Property Expertise) PO Box 104, Shortland Street, Auckland, 1010, Phone: 09 309 8526, Fax: 09 309 8902, Website: [propertygroup.co.nz](#) , Email: [enquiries@propertygroup.co.nz](#)

Consultant (Landscape): [Boffa Miskell Ltd \[AKL\]](#) (John Goodwin) PO Box 91250, Victoria Street West, Auckland, 1142, Phone: 09 358 2526, Website: [boffamiskell.co.nz](#) , Email: [info@boffamiskell.co.nz](#)

Consultant (Legal): [Simpson Grierson Ltd](#) (Mike Weatherall, Procurement Leader) Private Bag 92518, Victoria Street West, Auckland, 1142, Phone: 09 358 2222, Fax: 09 307 0331, Website: [simpsongrierson.com](#) , Email: [info@simpsongrierson.com](#)

Cost Management: [Rider Levett Bucknall \(RLB\) \[AKL\]](#) Level 16, 48 Shortland Street, Auckland Central, Auckland, 1010, Phone: 09 309 1074, Website: [rlb.com](#) , Email: [stephen.gracey@nz.rlb.com](#)

Other: [Timescapes Ltd](#) (-, Information Technology & Service) Level 4, Textile Lofts, 1 Kenwyn Street, Parnell, Auckland, 1052, Phone: 0800 846 372, Website: [timescapes.co.nz](#) , Email: [info@timescapes.co.nz](#)

Resource Management: [Jacobs NZ Ltd \[AKL\]](#) (Tim Hegarty, Grey Lynn Tunnel, Email: [tim.hegarty@jacobs.com](#)) PO Box 9806, Newmarket, Auckland, 1149, Phone: 09 928 5500, Website: [jacobs.com](#) , Email: [mele.stone@jacobs.com](#)

Surveyor: [Lands & Survey \[AKL\]](#) PO Box 33917, Takapuna, Auckland, 0740, Mobile: 027 650 3027, Website: [landsandsurvey.co.nz](#) , Email: [limin@landsandsurvey.co.nz](#)

Contractor: [Abergeldie Harker Ltd](#) (Brian Coman, Ghella Abergeldie JV - Senior Project Engineer, Mobile: 022 618 7672, Email: [bcoman@abergeldieharker.co.nz](#)) PO Box 9888, Newmarket, Auckland, 1149, Phone: 09 295 2570, Email: [info@abergeldieharker.co.nz](#)

Contractor: [Ghella Abergeldie JV](#) Level 2, 8 Gloucester Park Road, Onehunga, Auckland, 1061, Phone: 09 953 5640, Website: [gajv.co.nz](#)

Contractor (Civil): [Ghella Ltd](#) (Francesco Saibene, Ghella Abergeldie JV - Project Director) PO Box 363, Shortland Street, Auckland, 1140, Phone: 09 218 8652, Website: [ghella.com](#) , Email: [auckland@ghella.com](#)

Contractor (Civil): [McMillan Drilling Ltd \(was McMillan Water Wells/Drilling Ltd\)](#) 120 High Street, Southbridge, 7602, Phone: 03 324 2571, Fax: 03 324 2431, Email: admin@drilling.co.nz

Contractor (Demolition): [Ward Demolition Ltd](#) (-, Storage tank demolition) PO Box 12720, Penrose, Auckland, 1642, Phone: 09 622 3111, Fax: 09 634 5128, Website: ward-demolition.co.nz , Email: demo@ward-demolition.co.nz

Contractor (Services): [Becker Mining Australia Pty Ltd](#) (David Pitkin - CEO, Delivery of Underground Safety Systems) 46 Glenwood Drive, Thornton, Newcastle, NSW, Australia, 2322, Phone: +61 2 4941 3333, Mobile: +61 2 4941 3300, Website: becker-mining.com , Email: sales@au.becker-mining.com

Contractor (Supplier): [APS Equipment Ltd](#) (-, Heavy Lift Machinery) PO Box 4361, Kamo, Whangarei, 0141, Phone: 09 437 9037 or 0800 001 495, Website: apsequipment.co.nz , Email: sales@apsequipment.co.nz

Contractor (Supplier): [Castle Portable Buildings Ltd](#) (Joe Wheeler - Sales & Projects Manager, Portable Buildings, Phone: 0800 780 900, Email: sales@castlepb.co.nz) PO Box 104062, Lincoln North, Auckland, 0654, Phone: 0800 780 900, Mobile: 021 780 246, Website: castleportablebuildings.co.nz , Email: sales@castlepb.co.nz

Contractor (Supplier): [Peri Australia/NZ](#) (Tim Gray, Peri Formwork, Email: tim.gray@peri.co.nz) 64 Broomfields Road, RD 1, Howick, 2571, Mobile: 027 468 4694, Website: peri.co.nz , Email: info@peri.nz

Subcontractor: [Accurate Instruments \(NZ\) Ltd](#) (Richard Opie - Area Sales Manager, MSA Altair 4XR & 5X Gas Monitors, Mobile: 021 969 108, Email: richard@accurate.kiwi) PO Box 25586, St Heliers, Auckland, 1740, Phone: 09 579 1777, Fax: 09 579 1776, Mobile: 021 969 108, Website: accurate.kiwi , Email: sales@accurate.kiwi

Subcontractor: [Prime Pump Ltd](#) (John Jones - Civil & Mining Sales Engineer, Pumps & Suction/Discharge Hoses & Tanks) PO Box 412, Greymouth, 7840, Phone: 03 768 9140 or 0800 482 747, Fax: 03 768 9141, Website: primepump.co.nz , Email: info@primepump.co.nz

Subcontractor: [Prime Pump Ltd](#) (John Jones - Civil & Mining Sales Engineer, Supply BBA BA150 Pump - Bentonite Management) PO Box 412, Greymouth, 7840, Phone: 03 768 9140 or 0800 482 747, Fax: 03 768 9141, Website: primepump.co.nz , Email: info@primepump.co.nz

Subcontractor (Air Conditioning & Mechanical): [Heatwave Ltd](#) PO Box 15261, New Lynn, Auckland, 0640, Phone: 09 818 9666, Fax: 09 818 0000, Website: heatwave.co.nz , Email: admin@heatwave.co.nz

Subcontractor (Concrete): [Concrete Logistics](#) 26A Thomas Peacock Place, St Johns, Auckland, 1072, Phone: 0508 752 237, Mobile: 021 763 982, Website: concretelogistics.co.nz , Email: ray@concretelogistics.co.nz

Subcontractor (Earthworks): [CLL Service & Solutions \(CLL\)](#) (-, Secant bored piling) PO Box 577, Kumeu, 0841, Phone: 09 412 7048, Fax: 09 412 7410, Mobile: 027 509 0860, Website: cll.net.nz , Email: sean@cll.net.nz

Subcontractor (Structural Steel): [Complete Reinforcing Ltd](#) 37 Firth Street, Drury, Auckland, 2113, Mobile: 027 474 1553

Subcontractor (Structural Steel): [Genweld Ltd](#) PO Box 204020, Highbrook, Auckland, 2161, Phone: 09 272 3674 or 0800 748 393, Website: genweld.co.nz

Subcontractor (Scaffolding): [All Safe Scaffolding](#) 18 Cowley Place, Rosedale, Auckland, 0632, Phone: 09 448 2179, Website: allsafescaffolding.co.nz , Email: admin@allsafescaffolding.co.nz

Subcontractor (Wastewater): [Seipp Construction Ltd \[AKL\]](#) (-, Confluence Chamber) 6 Neilpark Drive, East Tamaki, Auckland, 2013, Phone: 0800 122 844, Website: seipp.co.nz , Email: admin@seipp.co.nz

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