

PROJECT UPDATE

Dennis resumes ascent to highest point

Dennis is resuming its ascent to the Great North Road Interchange's (GNRI) highest point – 23 metres above ground – after recently taking a short break while sub-standard concrete was removed from a section ramp four.

Span six of the ramp had concrete removed from the deck and then replaced with new concrete containing the correct strength for the Waterview Connection project.

After biding its time in the cold while remedial work was carried out, the giant yellow gantry is ready to add to the 46 beams already placed on ramp four which has a total of 77.

"The next stage of beam placement is the most complex and intense part of our ramp construction," says Project Engineer Adam Stilges.

"Manoeuvring it to place as many as 15 Super T Beams (60 tonnes each) over the motorway will

require some road closures in and around the Great North Road Interchange."

Throughout this month a series of planned overnight closures will occur through the Great North Road Interchange to assist with ramp four beam placement, starting 5 July to 30 July between 11pm and 5am, Sunday to Thursday.

More details on page four.



Dennis is working above State Highway 16.

ON THE NIGHT SHIFT

Our structures team working alongside Dennis follow several work practices at night to help neighbours:

- Team meetings to plan work before all night work commences.
- Avoid the use of equipment which generates impulsive noise.
- Avoid steel-to-steel contact on equipment.
- Reversing beepers are replaced with low volume squawkers on all vehicles.
- Vehicle horns are not used.
- Loud radio/talking is forbidden.

Precast Facility produces last segment

The East Tamaki Precast facility celebrated a momentous milestone last month with the production of the final pre-cast concrete segment.

A key component of New Zealand's most ambitious roading project, the purpose built facility has manufactured over 24,000 segments to line the two motorway tunnels.

Precast Sub-Alliance Manager Andy Bould says that production of the final segment marks a 'massive' achievement for the Pre-cast Sub-Alliance and Well-Connected Alliance.

"Over the past 21 months the quality of finish and consistency of the segments produced for the tunnels has been to a very high standard."

"The team can be very proud of their legacy

and contribution to the project which they will see for many years to come," says Andy.

The remaining 65 workers at the facility celebrated the occasion with a special lunch which was attended by key subcontractors, suppliers and NZ Transport Agency, Well Connected Alliance management.

With the skills developed at East Tamaki, many of our people have been able to find new jobs in the construction industry, says the Alliance Project Manager John Burden.

"The team have worked with the local community to hire, train and develop a highly skilled workforce."

"There skill development is something that I'm personally very pleased about," John says.



The pre-cast team gather to watch the last segment being cast.

WELL DONE EAST TAMAKI TEAM, AN OUTSTANDING EFFORT ALL AROUND!

COMPONENTS PRODUCED:

- Over 24,000 tunnel lining segments.
- 2,406 culvert units.
- 279 bridge beams.
- Each segment weighs up to 10 tonne.
- One of 10 makes up 2,414 rings of concrete lining.
- Each ring is two metres wide and 14 metres in diameter.

SEGMENT MANUFACTURE – MATERIALS USED:

- 230,000 tonnes of concrete.
- 3,500 tonnes of conventional reinforcing.
- 4,500 tonnes of steel fibre reinforcing.

IN THE NEIGHBOURHOOD

Waterview Garden Market

Get down to the Waterview Garden Market, held every third Saturday of the month at 9am beside the Waterview Coffee Project on Daventry Street.

The market is a fantastic way to meet locals and for keen gardeners to share tips and insights about the art of horticulture.

Buy home-grown vegetables, pick up seedlings or choose to donate any fresh produce that you don't need.

All the proceeds from the market go to the Waterview Primary School.

Site access card returned

We really enjoy working in this area of Auckland, and one of the great things about it are the friendly and helpful people of our community.

A big thank you to Raval for handing in a WCA site access card that he found on the floor of the Mt Albert ANZ Bank.

The helpful gentleman called our 0800 WCA SAFE (922723) to notify our Health and Safety team of the lost card.

Although we had offered to pick up the card from him, he kindly dropped it off to our reception desk at 150 Stoddard Road that same afternoon.

Asset Sale now on

The Well Connected Alliance is selling assets from the Waterview Connection project.

Buildings, vehicles, plant, machinery and other equipment will be offered for sale as assets are released from our project.

Visit <http://assetsales.wellconnected.co.nz/info/> to view a list of items on sale such as the Spoil Building.

#BuildCommunities photo competition extension

Our #BuildCommunities photo competition is extending its deadline till July 31.

The extension is to give a chance for more people to submit their entries.

3 easy steps to take part:

1. Take a photo that depicts or represents the Well-Connected Alliance's aspirational goal to Build Communities.
2. Display #BuildCommunities in the photo.
3. Submit the photo to competitions@wellconnected.co.nz.

Submit a photo today to be in with a chance to win one of two tours for you and three mates.

Structures team remove sub-standard concrete.

Our structures team working on ramp four have successfully removed sub-standard concrete from span six.

"This work was not part of any programme when we first started constructing the interchange, and removal of the concrete required the highest standard of planning, engineering and execution," says GNRI Structures Supervisor Gary Setterfield.

"Twelve men with jack hammers, a large crew of hydro demolition guys and a 2 tonne digger spent 3½ weeks breaking out and removing 203 tonnes of concrete while 18 metres in the air and

directly over a live cycleway, Oakley Creek and adjacent to the Northwestern Motorway."

Gary says the team was under huge pressure because of the potential risk to the environment and safety of local residents, commuters and our team.

"There was one minor incident in the whole process when a couple of small chips fell on to the cycleway below. It was immediately flagged by a spotter, and work was stopped and reassessed."

Work will start later in the year to remove sub-standard concrete from a portal beam on the ramp.



Removing concrete on ramp four.

Permanent roads rise from NAT sump

Two permanent roads have emerged from the sump at the Northern Approach Trench (NAT) and will be open to carry tunnel traffic by mid-July.

The roads are being built on either side of the two temporary bridges that provide a continuous access way to supply precast ring segments and other supplies to the TBM Alice.

Section Engineer William Dobson says that tunnel operations have been on-going during road construction.

"The NAT is a live work area which means our team work under the spoil conveyor and alongside wall pipes and large vehicles that enter and exit the tunnels."

"Even more challenging is that we've had to place pre-cast panels in and around the existing structure from multiple positions using a range of cranes from 300 tonnes to 55 tonnes."

Also taking place concurrently in the NAT is the construction of the 'central corridor', the area

between the roads and tunnels, which will be used to store mechanical and electrical equipment.

Following completion of the current roads the temporary bridges will be dismantled and vehicles will switch over to utilise the new access.

Both permanent roads will then be extended to cover the full width of the tunnels.



Permanent road being built in front of the southbound tunnel entrance.



The central corridor (left), temporary bridge (centre) and permanent road (right).

Hendon Footbridge humming along

Construction is humming along on the Hendon Footbridge as our team work to prepare the structure for its assembly post Alice TBM's second breakthrough.

The architecturally designed footbridge will provide pedestrian and cycling access between Owairaka and New Windsor while crossing over State Highway 20.

With the spoil building and conveyor currently passing through the bridge's alignment, the team recently established the 'anchors' for the structure.

"We've recently built the two concrete arch pads, on the northern and southern ends, which will secure the 100m long steel arch girder," says Project Engineer Jeremy Gordon.

"The north approach ramp (Owairaka side) is also underway and will be completed this winter. The southern approach ramp was completed last year."

Following Alice's demobilisation in mid-Spring, the spoil conveyor will be removed before the steel arch girder is installed and the remaining main span bridge deck is built.



Artist's impression of the Hendon Footbridge, New Windsor end looking to Owairaka.



Work set to begin on 'missing link'

Preparation work is set to begin on a section of the three metre wide southern shared path known as the 'missing link' at Alan Wood Reserve.

Auckland Transport has instructed the WCA to construct the 'missing link' which will fill the gap of the southern shared path from the southern approach trench through to the Waterview shared path along New North Road (path alignment highlighted in red).

During this time Alan Wood Reserve will remain open for public access, except for some areas where we may need temporary closures to make sure that park users are safe during construction.

If we need to make some minor closures, signage will be displayed to show where alternative walking routes will be within the reserve.

The completed 'missing link' will directly connect to the half basketball court and volleyball court within Alan Wood Reserve and also through to Hendon Avenue.

First cross passage breakthrough

In June there was plenty to celebrate underground with the successful breakthrough of the first cross passages between the two tunnels.

"A great team achievement for the construction team, surveyors, the Cross Passages team and our suppliers," says Cross Passage Manager Alistair McPhee.

"We are on track to have all breakthroughs completed by Christmas."

A lot still needs to be done to complete XP 17 including drainage and waterproofing work before a permanent concrete lining is applied to the walls followed by the mechanical and electrical fit out.

There are 17 cross passages in total - 16 between the two tunnels and one inside the Southern Vent Building.



Cross Passage 17, view towards the second tunnel.

ALICE'S PROGRESS

20



SOUTHERN PORTAL

NORTHERN PORTAL

TUNNEL 2

DISTANCE TRAVELLED **1,116m**

DEPTH (TO CROWN) **17m**

No. OF RINGS INSTALLED **554**

EARTH REMOVED **183,000m³**

16

Great North Road Interchange closures and traffic changes

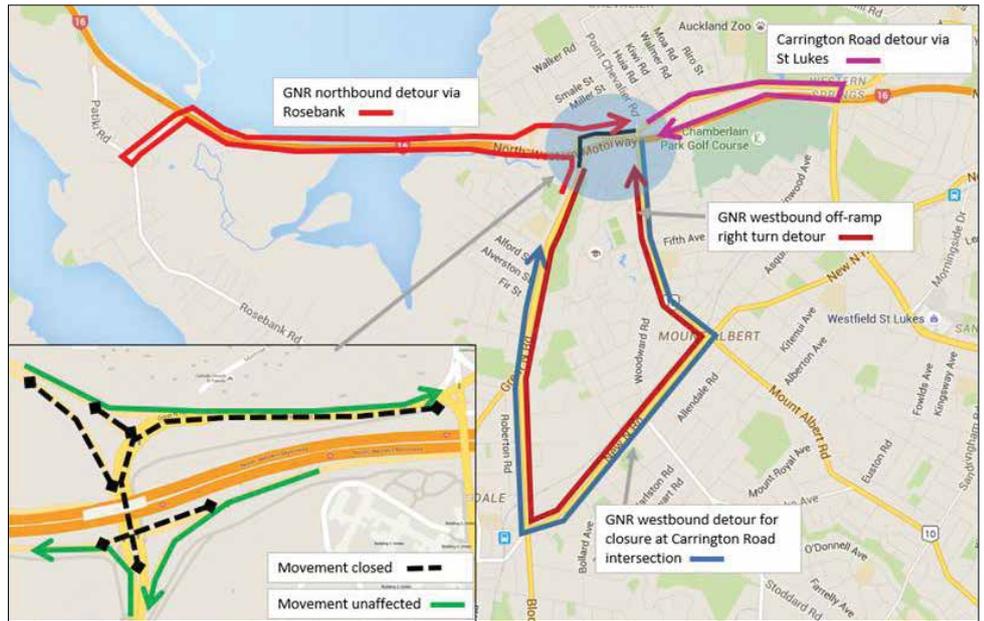
Date: 5 July - 30 July.

Time: 11pm - 5am, Sunday to Thursday.

The interchange closures affects:

- Vehicles travelling on Great North Rd via Waterview towards Pt Chevalier (follow the detour via Rosebank Rd);
- Those wanting to join the Northwestern Motorway (State Highway 16) city-bound (follow the detour via Rosebank Rd);
- Those wanting to use the Northwestern eastbound exit at the interchange (follow the detours via Carrington and New North Roads);
- Those travelling from the city on the Northwestern to Pt Chevalier exit at St Lukes Interchange and travel via Great North Rd.
- Please note that Great North Road westbound from Carrington Road/Pt Chevalier intersection will be closed. Please follow local detours.

The closures do not affect vehicles using the interchange to join the motorway westbound, or those city-bound drivers leaving the motorway for Great North Road.



SURVEY SAYS...

Thank you to all our readers who took the time to complete our survey form in the May Project Update.

A few key results received from your feedback:

- 88% of people agreed or strongly agreed that they receive timely information from the WCA.

- 92% agreed or strongly agreed that the WCA genuinely want to work with the community.
- 93% of people agreed or strongly agreed that the WCA would deliver an outstanding result for the project - a 10% increase from last year.

110 people responded to our survey and your feedback will be used to form a driver education

plan for the tunnel opening.

All survey forms that were sent to us were put into a draw to be in with a chance to win one of four tickets to the final breakthrough celebration event in Owaraka.

The four winners will be contacted directly during the third week of July.

Howlett Reserve Walkway opening

Date: Saturday 11 July 2015

Time: 10am - 11.30am

Come along and join us to celebrate the opening of the new walkway that connects Howlett and Waterview Reserves.

Meet at the Howlett Street entrance at 10am for a brief ribbon cutting ceremony before the first walk commences.

The first walk will finish at Waterbank Crescent where a sausage sizzle and soup station will await you.

The walkway is an all-weather hard surface suitable for prams and pushchairs.

We ask that all dogs remain on-leash for the duration of the opening.



NZ TRANSPORT AGENCY
WAKA KOTAHĪ

Waterview Connection

Albert-Eden Local Board
Auckland Council

NZ TRANSPORT AGENCY
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Waterview Connection

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PROJECT WEBSITE www.nzta.govt.nz/waterviewconnection

FOLLOW THE PROJECT ON FACEBOOK www.facebook.com/AliceTBM

WATCH VIDEOS ON YOUTUBE www.youtube.com/wcnow

Contact us at info@wellconnected.co.nz if you would like to receive Project Updates by email