



## Waikato Expressway

### Ngaruawahia Section

Information Sheet May 2012

## Good construction progress made

The Ngaruawahia section of the Waikato Expressway is well on track for completion in late 2013.

Good progress has been made during the project's first summer earthworks season. To date approximately 1,000,000m<sup>3</sup> of material has been moved, with a further 200,000m<sup>3</sup> still to be cut, hauled and placed through site. The remaining earthworks will continue over the winter months, although some earthworks activities are expected to be limited due to the location and types of material. The winter earthworks activities will be closely monitored by our environmental team to ensure that any impacts on the environment are minimised.

A key focus of the 2011/2012 summer construction season has been the preloading of the lower lying peat areas of the route with sand quarried from within the project site and the hill cuttings at Kainui Road, Lake Areare, and between Lake and River Roads. Winter earthworks will focus on building embankments in preparation for the commencement of piling and bridge construction.

### Gordonton Road Interchange

Cut and fill operations to construct the elevated roundabouts at the Gordonton Road interchange have commenced (refer to photo at right). The majority of fill material is being sourced from the cutting at Kainui Road and carted by motor scraper through the site. Any additional fill material required will be provided by imported clay from offsite.



Aerial view from Lake Road looking south to Te Rapa



Aerial view from Gordonton Road Interchange looking south

### Kainui Road Cutting

Construction is well underway at Kainui Road. Approximately 75,000m<sup>3</sup> of material has been removed from the cutting on the northern side of Kainui Road and relocated around the site. Some of this material has been unsuitable for structural purposes and will be used as landscaping fill along the expressway alignment.



### Waikato River Crossing

Recent activity at the Waikato River involved the construction of an access track and associated environmental controls in anticipation of the piling crews arriving.

A crane was brought into site to commence with sheet piling. Sheet piles were driven into the ground by a vibrating hammer attached to the crane to depths of 12m into the ground followed by placing mud crete. This work forms a cofferdam to enable construction of the capping beam at the bridge piers. Cofferdams are structures that enable construction to continue below the ground water level.

Pile lengths for the Waikato River Bridge will be from 18m to 30m.



## Overview of Construction Programme

ACTIVITY	DESCRIPTION	CONSTRUCTION DATES
<b>Bridges</b>	Gordonton Road Kainui Road Lake Road River Road Waikato River	October 2012 – April 2013 April 2012 – September 2012 May 2012 – December 2012 June 2012 – November 2012 April 2012 – June 2013
<b>Earthworks</b>	Bulk earthworks General earthworks	October 2011 – December 2012 Will continue throughout the duration of the project.
<b>Drainage</b>	Culvert installation	September 2011 – March 2013
<b>Road Pavement</b>	Chipseal Asphalt	September 2012 – May 2013 Within 2 years of opening of Ngaruawahia Section.

## What's happening on the Local Roads?

Short term traffic management closures will be installed at various times along all local roads. Speed restrictions will be in place so caution will be required. Your patience with respect to any disruptions is appreciated.

ROAD	CLOSURE PROGRAMME
<b>Gordonton Road - (SH1B)</b>	Will remain open to traffic in both directions at all times.
<b>Kainui Road</b>	Will be closed between Driver Road and Kerie Road on 24 to 26 May 2012 and from July 2012 to September 2012. Access into private properties will be maintained at all times.
<b>Kerie Road</b>	Closed from Kainui Road to approximately 300m north of the intersection from October 2012 to November 2012. Access into private properties will be maintained at all times.
<b>Howard Road</b>	Permanently closed from October 2012 between Driver Road and Rogers Road.
<b>Lake Road</b>	Will remain open to traffic in both directions at all times.
<b>River Road</b>	Will remain open to traffic in both directions at all times.



### For more information

For further information online visit:  
[www.nzta.govt.nz/rons](http://www.nzta.govt.nz/rons)  
[www.nzta.govt.nz/projects/waikato-expressway](http://www.nzta.govt.nz/projects/waikato-expressway)  
[www.nzta.govt.nz/projects/Ngaruawahia](http://www.nzta.govt.nz/projects/Ngaruawahia)



Or follow us on Facebook:  
[www.facebook.com/waikatoexpressway](http://www.facebook.com/waikatoexpressway)

## Environmental Management

The detailed planting and landscaping design for the project is currently in the final approval stage, which includes review by local tangata whenua and ecologists.

The design will include specific plans to enhance the Kainui Wetland, Lake Areare, and the gully system through the farm property between Lake and River Roads. The landscaping will greatly enhance the ecological values of these three key areas which are home to endangered fish species and native bats. Where possible seeds for the planting are being harvested locally to ensure plants are endemic to the area.

A new wetland will be constructed at Lake Areare to treat run off from surrounding farm land as well as the expressway, thereby improving the quality of the water entering the Lake system.

Many streams and farm drains have now been diverted into temporary culverts. Before the water courses were disturbed nets were set to trap and relocate all fish species. Threatened species (black mud fish and long finned eel) were found in several areas and relocated into nearby water courses.

Fletcher Construction appointed ecologists to identify trees for potential bat roosts prior to tree clearance. Monitoring identified one stand of trees that is likely to be a maternity roost. These trees are being protected during the works and are incorporated into the landscaping.

On a large earthworks site one of the biggest environmental risks is sediment discharge into watercourses where it can smother aquatic life and block drains. To prevent this, 38 ponds, over 20km of bunds and many other controls have been constructed to contain sediment before discharging clean water from the site. These controls are independently inspected by the Waikato Regional Council weekly and have been performing well.



CC-314

## Contact Details

For enquiries and information regarding the Ngaruawahia Section of the Waikato Expressway:

### Site and construction enquiries

Freephone 0800 BYPASS (0800 297 277)

### WENDY AUSTIN

Traffic and Stakeholder Manager  
 Mobile: 027 206 4212  
 Email: wendya@fcc.co.nz

### NICOLA BOYES

Communications and Stakeholder Liaison Manager  
 Waikato Expressway  
 Phone: 07 958 7888  
 Mobile: 021 615 461  
 Email: nicola.boyes@nzta.govt.nz



NZ TRANSPORT AGENCY  
 WAKA KOTAHI

New Zealand Government