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At the time of writing various work activities are already well advanced including widening and lengthening the bridges on and over the motorway; vegetation clearing along the M2 and installation of temporary noise walls and the required removal of some existing noise walls.

Major earthworks, drainage and widening works along the motorway are also underway as well as implementation of tunnel crown support and service relocation work in the eastbound tube of the Norfolk Tunnel. Relocation of service points which include power, gas and communications is also well advanced.

Extensive traffic management has been required on local roads, particularly on the overbridges at Barclay Road, Murray Farm Road Bridge and Christie Road that are being extended to facilitate the widening.

"A key challenge of the project is keeping traffic moving whilst undertaking such a large project," Mr Sinclair said.

"Our focus has been on reducing the impact on motorists by maintaining the full motorway lane capacity during peak periods whilst providing a safe operating environment for both road users and workers.

"The Hills M2 is located in one of the most environmentally sensitive road corridors in Sydney. Several major tributaries and bushland reserves, including the Lane Cove National Park criss-cross the motorway. The sensitivity of the corridor is a fundamental consideration to the upgrade team who are working collaboratively with an internal environmental team and independent ecologists to implement construction methods that reduce impacts on the environment and the community."

The use of tower cranes at the Darling Mills Creek and Terrys Creek viaducts has successfully minimised the overall clearing requirements of the project. Tower cranes are being established to facilitate the majority of required widening works. The clearing footprint at the Darling Mills Creek has been reduced by approximately 8500m<sup>2</sup> including saving 20 mature trees.



Windsor Road west facing ramps.

## TRANSURBAN'S INTERNATIONAL PRESENCE

Transurban Group was established in 1996 and operates internationally from its Melbourne headquarters with its main focus on America and Australia. The company owns, manages and develops a number of toll roads in both countries. In the US, the Group owns Pocahontas 895 in Richmond, Virginia and in Northern Virginia, just south of Washington, DC, Transurban is involved in a major project creating High Occupancy Toll (HOT) lanes on the Capital Beltway (495).

In Australia, Transurban owns CityLink in Melbourne and has a stake in five motorways in New South Wales including full ownership of the Hills M2 and Lane Cove Tunnel. The company also has a 75.15 per cent ownership of the Eastern Distributor and a 50 per cent stake in the Westlink M7 and the M5.

Essentially, Transurban concentrates on the long term management of its assets in an effort to achieve the best outcomes for its partners and the community. The company's expertise covers a broad range of appropriate skills associated with road management including

traffic modelling, road safety and performance, sustainability and financial management.

In recent years, Transurban has earned international recognition for its approach to managing the impact of its projects and operations on the environment and communities. The Group has been included in the Dow Jones Sustainability Index (DJSI) World list of high performing companies each year from 2006 to 2010.

## Online selected for M2 Upgrade

As a professional concrete sawing and drilling company, Online Concrete Cutting Services have been selected by Leighton Contractors as their preferred subcontractor for the M2 upgrade project. Having been engaged by the Roads, Tunnels and Structures division, Online Concrete Cutting Services are actively involved on a daily basis.

Daily activities include Core Drilling, Road Sawing, Hand Sawing and Ring Sawing. Having fully equipped vehicles including water and power has been critical to Online Concrete Cutting Services ability to complete the numerous sawing and drilling tasks along the M2 corridor.

Online Concrete Cutting Services working relationship with Leighton Contractors started almost six years ago on the North West T-Way. Since then they have also teamed up with Leighton's on the Northern Hume Alliance, Energy 2U, and the Richmond Line Alliance projects.

Additional services offered by Online Concrete Cutting Services include deep Road Sawing, large diameter Core Drilling, Wall Sawing, Wire Sawing and Bursting.

Online Concrete Cutting Services is a family owned and operated organisation which still recognises the importance of maintaining and delivery a high level of quality service.

Further information regarding Online Concrete Cutting Services can be found on their website [www.onlineconcrete.com.au](http://www.onlineconcrete.com.au) or by calling their office on (02) 9899 3757.



Vibration monitoring equipment in the tunnel.




**Proud to be a key Leightons partner on the M2 upgrade project.**

- Online Concrete Cutting Services is a well respected Concrete Sawing and Core Drilling company with more than twenty years experience.
- Whatever your concrete cutting requirements, we have the solution to meet your needs.

**Services we offer:**

- Core Drilling
- Hand Sawing
- Ring Sawing
- Road Sawing
- Wall Sawing
- Wire Sawing
- Bursting

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