

Tunnelling and Underground Blasting in your area – Sydenham and Tempe

Work is underway on WestConnex which involves widening and extending the M4 and M5 and joining them to create a free-flowing motorway network.

As part of the project, the New M5 will duplicate the existing M5 East corridor, doubling vehicle capacity and easing congestion between St Peters and Beverly Hills. It will include twin tunnels, an upgrade of King Georges Road Interchange and a new interchange at St Peters. For more information, visit www.westconnex.com.au/NewM5

In the coming weeks, tunnelling for the New M5 will be carried out 24 hours a day, seven days a week and underground blasting will take place Monday to Friday 9am – 5pm and Saturday 9am – 1pm; these works will be **approximately** 46 metres underground under the following streets:

- | | | |
|-------------------|--------------------|----------------|
| - Princes Highway | - Railway Lane | - Railway Road |
| - Park Road | - Belmore Street | - Terry Street |
| - Samuel Street | - Lymerston Street | |

What to expect:

Tunnelling

In your area roadheaders will be approximately 40 - 45 metres underground and depending on the ground conditions, building type and existing background noise, it is possible that you will not notice the work underneath your property.

You will not be able to hear the excavation equipment, but ground borne noise generated by tunnelling activities may be experienced inside your property at shallower depths. Ground borne noise is created when vibration from tunnel excavation travels through the ground and causes the walls and floors of the building to faintly vibrate, creating audible noise.

Underground Blasting

Underground blasting will be conducted in the vicinity of the Princes Highway in tunnel cross passages. Blasting is a safe and commonly used method of road tunnel excavation. You can expect to hear regenerated noise when the blasting occurs which can be expected to last no more than 15 seconds. You may feel a series of small vibrations as a result of the blasting. Vibration monitoring will be conducted in the discreet surface area where blasting will be taking place.

Underground blasting will be approximately 40 - 45metres underground and will be conducted by licensed blasting specialists. Every effort will be made to minimise impacts on local residents, all blasting activities have been planned to comply with the strict vibration requirements set out in the New M5 Conditions of Approval.

What is involved?

The New M5 tunnels will be excavated to around 12.5 metres wide with a height of around 7.5 metres. Tunnel excavation is carried out using road headers.

A roadheader is an excavation machine that has a rotating, rock-cutting head, mounted to a boom. When the excavated material is cut, it falls at the front of the machine, where a loading device transfers the rock onto the roadheader's conveyor system which loads the spoil onto underground off road haulage trucks. The roadheader machine travels on tracks and weighs around 135 tonnes.

Tunnelling will take place from four main construction sites located at Kingsgrove, Bexley, Arncliffe and St Peters. In your area, the tunnelling site is located on the St Peters Interchange site (former Alexandria Landfill).

For more information

✉ info@newm5.com.au

☎ 1800 660 248

🌐 westconnex.com.au



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There will be up to 3 roadheaders passing underneath your property around the same time. The anticipated tunnel advance rate is around 25 to 30 metres each week. Tunnelling will occur under individual properties for around a week for each tunnel. In order to see the New M5 tunnel alignment in comparison to the location of your property please go to <https://gis.aecomonline.net/westconnex/newm5/>

Cross Passages

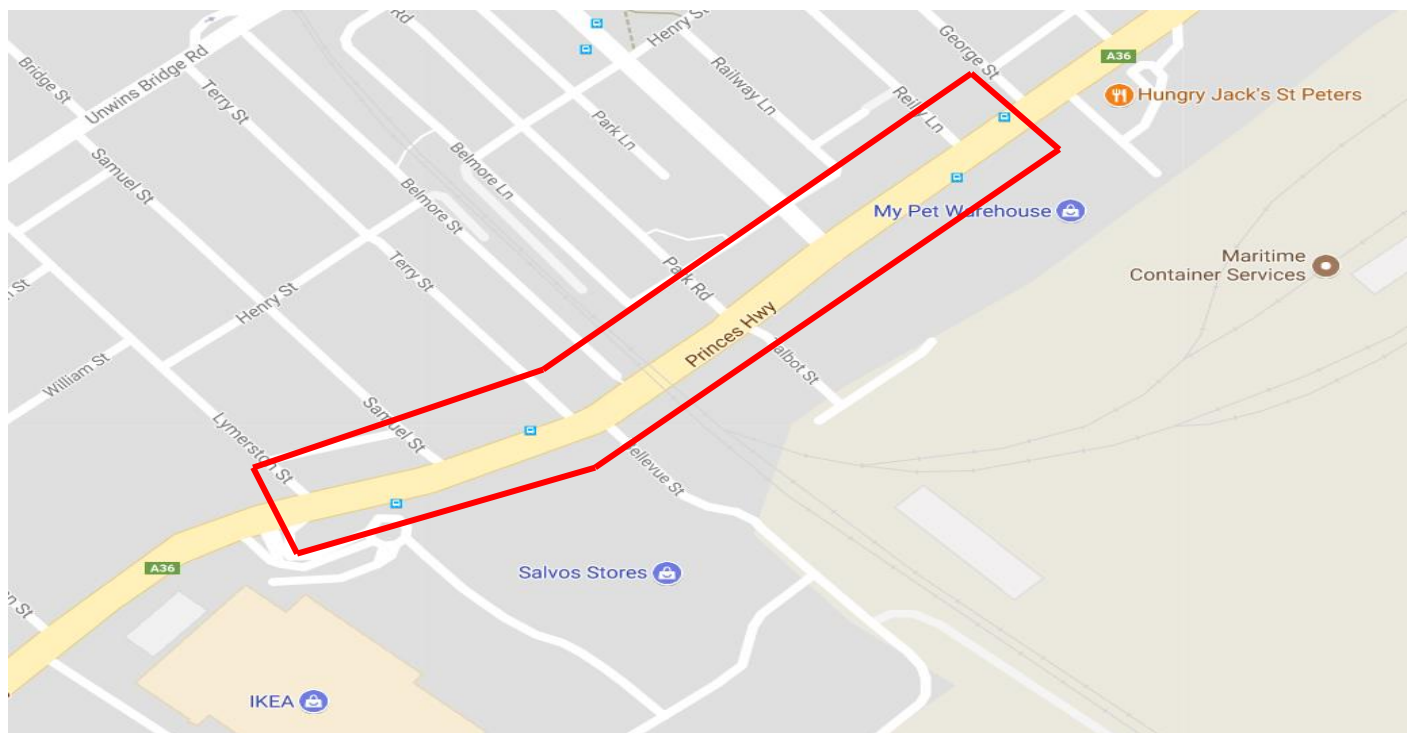
Cross passage tunnels which connect the eastbound and westbound tunnels are designed to house mechanical and electrical equipment for the tunnel operation and to permit the motoring public to cross to the other carriageway in the event of an emergency.

Cross passages are located throughout the tunnel around 120 metres apart and will typically be excavated around two to three weeks after the main tunnels in that area are complete. The time taken to construct a cross passage will depend on ground conditions and the type and length of the cross passage being constructed. A typical cross passage will take around one week to construct.

More information

If you have any questions about this work, please call 1800 660 248 and ask to speak to a member of the New M5 Community Engagement Team or email info@newm5.com.au.

You can also visit the New M5 Community Information Centre located at 27 Burrows Road St Peters. The centre is open on weekdays from 9am to 5pm.



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