

GATEWAY UPGRADE NORTH

PROJECT SUMMARY

Client: Lendlease

Location: Brisbane

Duration: 3 Years

Value: \$ 1.5M

Major Challenges Overcome:

- Weather - access
- De-watering – water quality
- Tight spaces – confined spaces



Culvert C2010 (Southbound)

The Project

The Gateway is the main highway allowing traffic to bypass the already congested Brisbane CBD. Carrying over 83,000 vehicles a day, The Northern section required an upgrade to improve traffic flow and de-stress Brisbane's motorway network. The upgrade comprised of additional bridges, additional lanes and new flyovers to improve traffic flow. Some of the work is to be carried out in the low-lying areas around Nudgee and Deagon, which presents all types of project challenges from flooding, access, ground conditions and environmental issues.

Epoxy Solutions was engaged by the Principal Contractor, Lendlease, to provide a structural remediation solution for the many concrete culverts currently running under the highway. Other structural remedial works includes coating bridge strengthening, jacking and grouting works.

Program

Our work kicked off at the end of the rain season in May 2015 and continued through to Christmas. Starting early in 2016, we anticipate to complete much of the work by the end of 2017, which only leaves a few culverts to complete in 2018.

Project Scope

The project included the following:

- Structural repairs to any structure on the GUN Project
- Culvert repairs to all culverts.

Completed Works

The following works were completed at Culverts C2010 (15 cells) and C2009 (16 cells) and C2008 (6 cells) in 2016:

Spalling Repairs: 294 No. Repairs


Replace Corroded Bars (Section exceeds 20% loss): 48m

Crack Repair: 360m

Waterproofing Coating: (Vandex Concrete Grey) : 950m²

Pressure washing: 950m²

Site Activities:

<p>Confined Space Access</p> 	<p>Confined Space Rescue</p> 
<p>Cleaning Culverts</p> 	<p>Pressure Wash Culverts</p> 
<p>Reinforcement Replacement</p> 	<p>Spalled and broken out culvert wall (form & pour repair)</p> 
<p>Crack Repairs</p> 	<p>Completed Spalling Repairs (high build)</p> 



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SITE BULLETIN

Edition 8 | October 2016

SPOTTED OUT ON SITE

During recent culvert concrete repair works beneath the Gateway Motorway, our subcontractor, Epoxy Solutions, discovered some Welcome Swallow eggs and hatchlings.

Epoxy Solutions, who have been very proactive at implementing environmental controls to ensure programmed works here on site are not affected, quickly notified our team of their find.

As culverts are deemed to be a confined space, we had identified the risk of fauna inhabitants being present prior to commencing these works and engaged AusEcology to ensure they had confined space trained staff available, should they ever need to enter a culvert.

This prior planning enabled AusEcology to promptly translocate the hatchlings and eggs to carers, where they will be looked after until they are able to be released into the wild.

Shamaul and Sarah | Site Engineer and Environmental Advisor (south)



Above and Right: AusEcology's fauna spotter catcher gathering the Welcome Swallow eggs.