



## Biosphere Environmental Consultants Pty Ltd

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13 January 2015  
Guy Smith  
Goodman Ltd.

**Assessment of Potential Noise Impacts  
On Green and Golden Bell frog Habitat Ponds  
Southlands, Banksmeadow  
January 2015**

As part of the re-development of the Southland site, two Green and Golden Bell frog habitat ponds are to be created in an easement between proposed warehouses and the Springvale Drain. The location and design of these ponds have been developed according to the habitat requirements of this species of frog.

In December 2014, Goodman Ltd, planners for the warehouse construction at Southlands, requested a change to the approved Masterplan. The change entailed the provision of an internal access road to service the warehouses on the eastern side of the Springvale Drain. The proposed access road will pass along the western side of the frog habitat area, between the two frog ponds and the new warehouses (Figure 1).

I have examined the design drawings for this variation in the MasterPlan with reference to potential noise impacts that could arise as a result of this change.

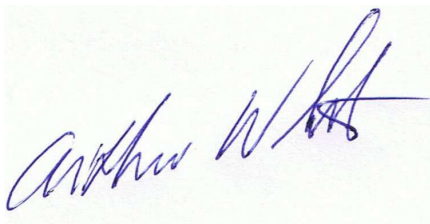
The access road is likely to result in increased noise around the frog habitat area but background noise has not proven to be a disturbance to Bell frogs in the past. In fact, many sites around Sydney where these frogs occur are in or close to industrial areas where noise is ongoing and the frogs have persisted at these sites and behaved

normally. Similarly, ground vibration in these areas is also a regular occurrence but does not adversely impact Green and Golden Bell frogs.

Conclusion:

The location of access road will generate some extra noise and vibration but will not adversely affect the Green and Golden Bell frogs at the Southlands site.

Yours Sincerely

A handwritten signature in blue ink, appearing to read 'Arthur White', on a light green background.

Dr Arthur White.