

Appendix A

Consideration of clause 228(2) factors and matters of National Environmental Significance and Commonwealth land

Clause 228(2) Checklist

In addition to the requirements of the Is an EIS required? (1995/1996) guideline and the Roads and Related Facilities EIS Guideline (DUAP, 1996) as detailed in the addendum REF, the following factors, listed in clause 228(2) of the Environmental Planning and Assessment Regulation 2000, have also been considered to assess the likely impacts of the proposed modification on the natural and built environment.

Factor	Impact
<p>Any environmental impact on a community?</p> <p>The modified project would result in some short-term amenity-related impact during construction to the community, including a noise and air quality impact, increased traffic and temporary delays from partial road closures and disruption to access for some receivers on Menangle Road.</p> <p>Once operational, the modified project would provide access to the Menangle Park urban release area and increase the capacity of Menangle Road. This would have a long term positive impact to the community, by not only enabling the existing road to cope with forecasted traffic volumes but also by supporting the development of the region. It is expected that this would support future development and growth of businesses and employment in the region.</p>	<p>Short-term, minor negative.</p> <p>Long-term positive.</p>
<p>Any transformation of a locality?</p> <p>The modified project would result in short-term disruption during construction leading to a noise and traffic impacts. The impact would be mitigated with the implementation of recommended safeguards identified in Chapter 6.</p> <p>The modified project supports Spring Farm Parkway Stage 1 by introducing a new road, with an elevated bridge structure across the motorway corridor. The bridge structure would be visually prominent but would be in keeping with the existing broader context of large infrastructure in the corridor. The removal and trimming of vegetation for access tracks with have a low impact on the locality.</p>	<p>Short-term minor negative.</p> <p>Long-term minor negative.</p>
<p>Any environmental impact on the ecosystems of the locality?</p> <p>The modified project would require clearance of 5.51 PCT 850 DNG and trimming of 0.85 low condition PCT 850. This is not likely to significantly impact ecosystems of the locality.</p>	<p>Short-term minor negative.</p>
<p>Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality?</p> <p>The modified project would result in short-term impacts to traffic and transport as well as noise and vibration during construction. Some occasional night work would also be required. In all cases, the impact would be minimised by including a range of safeguards. These safeguards would also include controls to prevent any unnecessary impact while minimising any risks to other values locally.</p>	<p>Nil.</p> <p>Short-term minor negative.</p>

Factor	Impact
<p>Any effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?</p> <p>The modified project would impact an area of Grazier's Farm Inn and require the acquisition of an area within the Sugar Loaf Farm (State Heritage Listed) curtilage. Impacts to these heritage items are considered minor and the likelihood of encountering any archaeological relics is low.</p>	Long term minor negative.
<p>Any impact on the habitat of protected fauna (within the meaning of the <i>National Parks and Wildlife Act 1974</i>)?</p> <p>The bridge in the western portion of the study area provides potential habitat for threatened microbat species. Heavy vehicles accessing parts of the site via the bridge may cause an indirect impact in the form of vibrations. However, further assessment via an AoS for potential microbat species was undertaken (refer to Appendix C) which found significant impacts as a result of the proposed modification works were unlikely.</p>	Nil.
<p>Any endangering of any species of animal, plant or other form of life, whether living on land, in water or in the air?</p>	Nil.
<p>Any long-term effects on the environment?</p> <p>The modified project would require clearance of 5.51 PCT 850 DNG and impact an area of Grazier's Farm Inn and require the acquisition of an area within the Sugar Loaf Farm (State Heritage Listed) curtilage. These impacts are considered to be minor.</p>	Long term minor negative.
<p>Any degradation of the quality of the environment?</p>	Nil
<p>Any risk to the safety of the environment?</p> <p>During construction, the proposal may require the transportation and storage of hazardous or contaminated materials in limited quantities. These materials would be managed in accordance with the mitigation measures proposed in the project REF. The potential risk to the safety of the environment would be minor and limited to the construction period.</p>	Short term minor negative.
<p>Any reduction in the range of beneficial uses of the environment?</p> <p>The modified project is located almost exclusively within land zoned for the provision of a new road corridor. Some property acquisition would be required immediately adjacent to the road corridor, including acquisition of some private property, and partial acquisition of an area of Sugarloaf Farm (State heritage listed item). This acquisition would not affect the use and enjoyment of Sugarloaf Farm.</p>	Long term minor negative.

Factor	Impact
<p>Any pollution of the environment?</p> <p>Construction of the modified project would result in dust generation and air and noise emissions from machinery and construction vehicles. There is a risk of pollution to the surrounding watercourses and drainage lines. The management measures proposed would help reduce the impact.</p> <p>During operation, pollution would largely be consistent with the current use. The proposal has been designed to ensure it complies with all safety requirements. As such, this reduces the impact of any accidents or incidents that may result in pollution, contamination or other environmental safety concerns. While this risk cannot be full discounted it has been reduced to a level that is achievable, feasible and reasonable. This includes controls to manage the stormwater runoff from the operational site via grassed swales and gross pollutant traps.</p>	<p>Short term minor negative.</p> <p>Nil.</p>
<p>Any environmental problems associated with the disposal of waste?</p> <p>During construction, a number of waste streams would be produced by the modified project. Where possible, excavated materials would be used on site. Where this is not possible, waste would be classified to identify suitable recycling and safe disposal methods in accordance with Roads and Maritime <i>Environmental Procedure – Management of Wastes on Roads and Maritime Services Land</i> and the requirements of the Waste Classification Guidelines.</p> <p>During operation, waste generation is expected to be minimal and consistent with the current use.</p>	<p>Short term minor.</p> <p>Nil.</p>
<p>Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply?</p> <p>It is predicted that about 400 000 m³ of imported fill would be required for construction of the modified project. It is unlikely this, or any other resources required for the modified project would be in short supply.</p>	<p>Nil.</p>
<p>Any cumulative environmental effect with other existing or likely future activities?</p> <p>Construction of the modified projects may be carried out with other proposals, including the Menangle Park Development. Cumulative impacts could include noise impacts, dust or other amenity impacts and community fatigue. Where necessary environmental management measures would be coordinated to reduce cumulative construction impacts. The proposal is unlikely to have any long-term impacts.</p>	<p>Short term minor negative.</p>
<p>Any impact on coastal processes and coastal hazards, including those under projected climate change conditions?</p>	<p>Nil.</p>

Factor	Impact
None, as the proposal is located outside of coastal areas.	

Matters of National Environmental Significance and Commonwealth land

Under the environmental assessment provisions of the EPBC Act, the following matters of national environmental significance and impacts on Commonwealth land are required to be considered to assist in determining whether the proposed modification should be referred to the Australian Government Department of Water, Agriculture and the Environment.

Under the EPBC Act strategic assessment approval a referral is not required for proposed road actions that may affect nationally listed threatened species, populations, endangered ecological communities and migratory species. Impacts on these matters are assessed in detail as part of this addendum REF in accordance with Australian Government significant impact criteria and taking into account relevant guidelines and policies.

Factor	Impact
Any impact on a World Heritage property?	Nil
Any impact on a National Heritage place?	Nil
Any impact on a wetland of international importance?	Nil
Any impact on a listed threatened species or communities?	Nil.
Any impacts on listed migratory species?	Nil.
Any impact on a Commonwealth marine area?	Nil
Does the proposed modification involve a nuclear action (including uranium mining)?	Nil
Additionally, any impact (direct or indirect) on Commonwealth land?	Nil
