



DOCUMENT	Razorback Quarry EIS
PROJECT	Plantation Pine Products Pty Ltd
VERSION	2.0

AUTHOR	Shaun Smith
POSITION	Principal Environmental Planner
DATE	1/03/2023



**Plantation
Pine Products**

Appendix E – Project Environmental Risk Assessment

APPENDIX D – PROJECT ENVIRONMENTAL RISK ASSESSMENT

ISSUE	ASPECT	IMPACT	RISK ASSESSMENT RANKING			ENVIRONMENTAL IMPACT STATEMENT SCOPE
			C	L	R	
Traffic and Access	Vehicle movements from employees, and in-bound and out-bound deliveries during operations	Increased traffic movements Safety interactions of Razorback Road with the Castlereagh Highway	Mod	2	6, Mod	<p>A Traffic Impact Assessment has been undertaken for the Project in accordance with the 'Guide to Traffic Generating Developments' (RTA 2002).</p> <p>The assessment considered construction and operational traffic types, volumes and movements on site and existing road networks, and predicted impacts of increased traffic on road safety.</p> <p>An upgrade of the intersection of Razorback Road with the Castlereagh Highway is also proposed to increase safety.</p>
	Construction traffic					
Air Quality	Vehicle movements	Elevated airborne, deposited dust and odour emissions	Mod	2	6, Mod	<p>An Air Quality Impact Assessment has been undertaken for the Project in accordance with the <i>Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales</i> (DEC, 2005).</p> <p>The Assessment included confirmation of background levels, determination of site criteria, air quality impacts for the construction and operational phases, calculation of likely greenhouse gas emissions, cumulative impacts and a literature review.</p> <p>Mitigation and management measures have been developed to reduce the impacts on air quality.</p>
	Operation of quarry equipment					
Greenhouse Gas	Combustion of fuels during construction and operations	Greenhouse gas emissions	Minor	1	2, Low	<p>The Air Quality Impact Assessment included an assessment of greenhouse gas Scope 1, 2 and 3 emissions in accordance with the Australian Greenhouse Office's (AGO) <i>Factors and Methods Workbook</i> (AGO, 2006) as part of the Air Quality and Greenhouse Gas Impact Assessment described above.</p> <p>Mitigation and management measures have been developed to reduce the impacts on air quality.</p>
	Generator use for electricity supply onsite					
Noise and Vibration	Vehicle movements		Minor	2	4, Mod	<p>A Noise and Vibration Impact Assessment has been undertaken for the Project in accordance with relevant NSW regulatory policy and guidelines,</p>

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			C	L	R	
	Receival, consolidation, and composting of organics, biosolids, and recycled water	Excessive noise and vibration generation at sensitive receivers	Minor	2	4, Mod	<p>including the <i>Industrial Noise Policy 2000, Interim Construction Noise Guidelines</i> and <i>Road Noise Policy</i>.</p> <p>The Assessment determined likely criteria for the Project and included an assessment of construction and operational noise and vibration impacts, and cumulative noise impacts with other approved industry in the vicinity.</p> <p>Mitigation and management measures have been developed to reduce the noise and vibration impacts of the project.</p>
Surface and Ground Water	Disturbance of soils during construction	Sediment movement resulting in contamination of nearby surface water and groundwater	Mod	2	6, Mod	<p>Surface water and groundwater assessments have been undertaken for the Project. The Assessments included a review of existing surface and ground water assessment information, the identification of surface and groundwater resources, assessment of existing surface and groundwater hydrology, and an assessment of potential surface water and groundwater impacts on and offsite. The assessment also included the development of a site water balance to assist with the design of the wastewater containment system and the design of a groundwater monitoring program.</p> <p>Measures have been developed to mitigate and or manage surface and groundwater and soil contamination issues associated with the project.</p>
Aboriginal Cultural Heritage	Ground disturbance during construction	Disturbance of Aboriginal artefacts, sites or places of cultural heritage significance	High	1	4, Mod	<p>An Aboriginal Archaeological and Cultural Heritage Impact Assessment for the Project has been undertaken in accordance with the <i>National Parks & Wildlife Act 1974 Part 6 Approvals Interim Community Consultation Requirements for Applicants (ICCRs)</i> (NPWS 2004) and DECCWs <i>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010</i>. The Assessment consisted of a desktop review - database and literature search of previously recorded Cultural Heritage information.</p> <p>In addition, field survey assessment has been conducted with members of the local Aboriginal community.</p> <p>Mitigation and management strategies have been developed in consultation with Registered Aboriginal Parties in the event that an Aboriginal artefact is discovered.</p>

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Historic Heritage	Disturbance during construction activities	Impact to historic heritage of local or state significance	Mod	1	3, Low	<p>A Historic Heritage Assessment has been prepared for the site and surrounding locality.</p> <p>There are no listed items within the Project area, nor were any items discovered during field inspection activities.</p>
Fire Management	Bushfire	Threat from bushfire to worker safety	High	2	8, Mod	<p>A Bushfire Assessment Report has been prepared for the development. The assessment considered and assessed the bushfire hazard and associated potential threats relevant to the proposal and outlined the minimum mitigative measures which would be required in accordance with <i>Planning for Bush Fire Protection 2019</i> (PBP), as adopted through the <i>Environmental Planning & Assessment Amendment</i> (Planning for Bush Fire Protection) <i>Regulation 2020</i>.</p> <p>The proposed development can meet the performance criteria for acceptable solutions for commercial development, giving due regard to the requirements of Chapter 8 of PBP 2019, specifically section 8.3.1.</p> <p>A suitable package of bushfire protection measures has been developed that is commensurate with the assessed level of risk to the development.</p>
Biodiversity	Disturbance of biodiversity during construction and operations	Disturbance to State and Federally listed species, communities, or habitat for species	High	2	8, Mod	<p>A Biodiversity Assessment has been prepared for the development. The objective of this assessment was to examine the likelihood of the proposed development having a significant effect on any threatened species, populations or ecological communities listed under the NSW Biodiversity Conservation Act 2016 (BC Act). This BA recognises the relevant requirements of the EP&A Act 1979 as amended by the NSW Environmental Planning and Assessment Amendment Act 1997.</p> <p>Preliminary assessment was also made with regard to those threatened entities listed under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act).</p> <p>A Test of Significance considered whether the removal of vegetation on subject site totalling 0.25 ha would constitute a significant impact on known</p>



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						<p>threatened species, populations, and ecological communities from the locality such that a local extinction may occur (5 Part Test).</p> <p>The assessment concluded that a significant impact would not occur to those entities assessed.</p>
Visual Amenity	Visibility of the proposed new infrastructure	Impact to visual amenity of existing environment	Minor	1	2, Low	<p>A Visual Assessment has been undertaken for the Project in accordance with current best practice. The assessment consisted of a desktop review – aerial photography, proposed works, existing reports and planning policy. In addition, a field inspection was undertaken to determine the visibility of the proposed project at a local context. The site is highly shielded from surrounding receivers as a result of the topography and surrounding pine plantation, therefore visual impacts are considered to be minimal.</p>
Socio-economic	Social	Demands on local infrastructure and services, impacts to demographics	Neg	2	2, Low	<p>A desktop Socio-Economic Assessment of the Project has been undertaken as part of the overall EIS. The economic benefits of the Project have been considered, in addition to the potential social impacts. It is considered that the economic benefits far exceed any social impacts that would result from the development.</p>
	Economic	Increased employment opportunities for local residents	Neg	2	2, Low	
Land Resources	Soil and Agriculture	Soil degradation and loss of agricultural production	Minor	1	2, Low	<p>A land resource assessment has been prepared which determined that soil and agricultural impacts are minimal and the site will be rehabilitated and returned to pine plantation.</p>

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Waste Management	Generation of general waste	Land contamination	Minor	1	2, Low	<p>A Waste Management Plan has been prepared as part of the EIS. The management plan details control measures to be implemented. Details of how waste will be stored, handled (including inappropriate waste) and transported to and from site were also detailed.</p> <p>Onsite sewerage will be handled through a portaloo which will be pumped out as required.</p> <p>Mitigation and management measures have been proposed to reduce the impacts associated with waste management on site and ensure compliance with regulatory and statutory requirements and ensure consistency with the aims, objectives and guidance in the <i>NSW Waste Avoidance and Resource Recovery Strategy 2014-2021</i>.</p>
Cumulative Impacts	Construction and operations	Cumulative impacts on existing receivers	Minor	2	4, Mod	All studies incorporate cumulative impacts assessments with approved industries in the vicinity of the Project, where sufficient information was available.

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