

Project environmental risk register

Appendix E



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E

ID	Environmental Attribute	Risk/scenario	Inherent/existing controls				Response			
				Consequence	Likelihood	Risk rating		Consequences	Likelihood	Risk rating
1	Land use conflict	Proposed development results in adverse conflict with surrounding land uses, noting adjacent Lot 2 753547 is zoned R5 Large Lot residential.	Project site is surrounded by rural land, with no major developments or residences nearby. It is located 10km from the nearest village of North Bourke, and the nearest residences are 2 houses south of the project site on the Mitchell highway, 5.5km and 5.8m respectively from the proposed location of the abattoir buildings. Project site is zoned RU1 Primary Production, as is all surrounding land with the exception of Lot 2 DP 753547 which is zoned R5 Large Lot residential. Lot 2 is vacant with no residence constructed.	2	D - Not likely to happen	4	The applicant (CAPRA Development Pty Ltd) has entered into a conditional contract to purchase the project site, as well as this Lot 2, and the surrounding Lots: Lot 19 DP 753546, Lot 6297 DP 768182, Lot 100 DP 753547, Lot 102 DP 753547, Lot 4 DP 753547, and Lot 3 DP 753547. Technical specialists engaged to assess air quality, noise and traffic and recommend mitigation measures if required to ensure no offsite impacts on surrounding land uses. No on site-rendering of raw animal waste products, with such products to be transported to off-site rendering facility.	1	E - Extremely remote	1

2	Air quality	Proposed development generates unacceptable odour emissions impacting on surrounding sensitive receptors.	Project site is remote from residential areas, being 10km from the nearest village of North Bourke, and 5.5km from the nearest rural dwelling.	2	C - Possible or could happen	6	Project site has been carefully selected due to its distance from residential receptors (greater than 5km). Specialist air quality consultancy (SLR) to undertake appropriate assessment and reporting, including cumulative impacts. No on site-rendering of raw animal waste products, with such products to be transported to off-site rendering facility.	1	D - Not likely to happen	2
3	Air quality	Proposed development generates unacceptable particulate matter emissions impacting on surrounding sensitive receptors.	Project site has no major developments or residences nearby and is located 10km from the nearest village of North Bourke. Abattoir developments not a significant source of particulate matter.	1	E - Extremely remote	1	Specialist air quality consultancy (SLR) has been engaged to undertake appropriate assessment and reporting, including cumulative impacts. Development design includes covered stockyards and unloading area.	1	E - Extremely remote	1

4	Noise	Proposed development generates unacceptable noise levels at surrounding sensitive receptors.	Project site has no major developments or residences nearby and is located 10km from the nearest village of North Bourke.	2	D - Not likely to happen	4	Project site has been carefully selected due to its distance from residential receptors (greater than 5km). Specialist noise consultancy (EMM) has been engaged to undertake the appropriate assessment and reporting, including cumulative effects. Development design includes covered stockyards, covered unloading area and enclosed operational area. Plant and equipment will be regularly inspected and maintained to ensure optimal operational condition. Activities during the hours 11pm - 6am will generally involve stock delivery and operation of waste water treatment plant.	1	E - Extremely remote	1
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5	Noise	Traffic movements associated with the development generates unacceptable noise levels at sensitive receptors along the primary transport route/roads.	Livestock currently transported through and around Bourke.	2	C - Possible or could happen	6	Specialist noise consultancy (EMM) has been engaged to undertake the appropriate assessment and reporting, including cumulative effects. Project not expected to significantly change movements of stock through Bourke. Traffic assessment commissioned to assess this aspect.	2	D - Not likely to happen	4
6	Traffic and transport	Traffic movements associated with development operation increases impacts and/or safety risks on local traffic and transport routes.	Most stock will be acquired around Bourke region where there is already livestock movement	2	D - Not likely to happen	4	Specialist traffic consultancy (EMM) has been engaged to undertake the appropriate assessment and reporting, including cumulative impacts. The new access from the Mitchell Highway will be located and designed to meet RMS and council requirements.	2	E - Extremely remote	2
8	Flora and fauna	Proposed development impacts upon threatened flora and fauna.	The proposed disturbance footprint is already disturbed and does not appear to support significant flora or fauna.	3	D - Not likely to happen	6	Flora and fauna to be assessed in the EIS in accordance with OEH's Framework for Biodiversity. If native vegetation is identified a biodiversity offset strategy will be developed accordingly. Specialist ecology consultancy (EMM) has been engaged to	2	D - Not likely to happen	4

9	Water resources	Proposed development results in unacceptable impacts on the flow and/or quality of local surface water and/or groundwater resources.	Project site is not on flood prone land and is approximately 2.5 km from the Darling river at its nearest point.	2	D - Not likely to happen	4	All wastewater generated will be treated on-site and effluent reused as irrigation. Soil and effluent irrigation assessment commissioned, including nutrient balance. Drilling on site found no groundwater to a depth of 8.8m. Deepest excavation on site will be less than 1.2m.	2	E - Extremely remote	2
10	Aboriginal heritage	Proposed development impacts upon areas/sites of Aboriginal cultural heritage significance.	The project site is already disturbed by historic land clearing and agricultural practices.	3	C - Possible or could happen	9	Specialist heritage consultancy (EMM) have been engaged to undertake the appropriate assessment and reporting of heritage issues in consultation with Registered Aboriginal Parties. No heritage items identified on the project site by a search of the AHIMS database. If required, appropriate mitigation methods and management strategies will be outlined in the EIS.	2	D - Not likely to happen	4
11	Non-indigenous heritage	Proposed development impacts upon areas/sites of non-indigenous cultural heritage significance.	The project site is already disturbed by historic land clearing and agricultural practices.	2	D - Not likely to happen	4	No items of heritage significance identified in the project site in <i>Bourke Local Environmental Plan 2012</i> .	2	E - Extremely remote	2

12	Visual Amenity	Proposed development adversely impacts upon the visual amenity of the local area.	Project site has no major developments or residences nearby and is located 10km from the nearest village of North Bourke. The development will only be observed from the Mitchell Highway.	1	E - Extremely remote	1	Abattoir buildings will be situated around 500m from the highway entrance point. Landscaping around the car park and buildings will improve the visual and environmental amenity of the development site.	1	E - Extremely remote	1
13	Greenhouse gas	Proposed development leads to unacceptable additional greenhouse gas emissions.		2	E - Extremely remote	2	A Specialist consultancy has been engaged to undertake a GHG assessment.	2	E - Extremely remote	2
14	Waste management	Inappropriate storage and/or disposal of waste materials generated by the abattoir operation results in environmental risks and/or impacts to surrounding populace (eg odour).		2	C - Possible or could happen	6	Appropriate systems will be implemented to ensure that all waste streams are effectively managed, and waste streams taken offsite will be disposed of at appropriately licensed facilities. Development operation will be subject to the conditions imposed by the EPL administered by the EPA.	2	D - Not likely to happen	4

15	Chemicals	Inappropriate storage and use of chemicals, or inappropriate management and disposal of chemical containers, results in environmental risk or incident.	Abattoir requires limited chemicals to be stored onsite.	2	D - Not likely to happen	4	A specialist consultancy (EMM) has been engaged to undertake a preliminary hazard and risk assessment. A chemical supply company will provide a chemical delivery and container pickup service direct to the development site. All operational areas will be sealed and drained to the on-site wastewater treatment system.	2	E - Extremely remote	2
16	Health	Proposed development results in adverse community outcomes, such as relating to Q fever.	Project site is remote from residential areas, being 10km from the nearest village of North Bourke, and 5.5km from the nearest rural dwelling.	3	C - Possible or could happen	9	Specialist consultancy (SLR) engaged to assess the potential risk of Q fever on the surrounding populace. There is already livestock movements in an around Bourke, including numerous livestock depots around the town. Project therefore not expected to significantly change movements of stock through Bourke compared to the existing situation. Traffic assessment commissioned to assess this aspect.	2	D - Not likely to happen	4

17	Animal welfare	Proposed development results in unacceptable impacts to animal welfare.		2	D - Not likely to happen	4	Abattoir will be operated in accordance with Australian Standard AS 4696:2007 <i>Hygienic production and transportation of meat and meat products for human consumption</i> , which includes an animal welfare component. Much of the livestock to be processed by the proposed development currently has to travel significant distances to other abattoirs in Charleville (QLD), Melbourne and Nyngan. Operating an abattoir within the source area of livestock and numerous livestock depots is anticipated to reduce the travel time for livestock. Animal welfare will be addressed in the EIS.	2	E - Extremely remote	2
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