Offsets Assessment Guide
For use in determining offsets under the Environment Protection and Biodiversity Conservation Act 1999
2 October 2012
This guide relies on Macros being enabled in your browser.

Matter of National Environmental Significance

Matter of National Environmental Significance									
Name	Bilby								
EPBC Act status	Vulnerable								
Annual probability of extinction Based on IUCN category definitions	0.2%								

			Impact calcul	ator										
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imp	pact	Units	Information source							
			Ecological c	ommunities										
				Area										
	Area of community	No	Pindan	Quality										
				Total quantum of impact	0.00									
	Threatened species habitat													
				Area	639.6	Hectares	Condtion of vegetation ranged from good to excellent (Mattiske							
ator	Area of habitat	Yes	Permanent/Life of Mine Clearing	Quality	7	Scale 0-10	2016). Some low level disturbance, associated with cattle and some areas subject to fire. Quality varies							
Impact calculator				Total quantum of impact	447.72	Adjusted hectares	across site, so an average quality was assumed.							
dwj	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imp	pact	Units	Information source							
	Number of features e.g. Nest hollows, habitat trees	No												
	Condition of habitat Change in habitat condition, but no change in extent	No												
	Threatened species													
	Birth rate e.g. Change in nest success	No												
	Mortality rate e.g Change in number of road kills per year	No												
	Number of individuals e.g. Individual plants/animals	No												



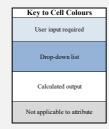
										Offset c	alculate	or											
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon	(years)	Start are quali		Future are quality witho		Future are quality wit		Raw gain	Confidence in result (%)	Adjusted gain	Net prese (adjusted l		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source	
	Ecological Communities																						
	Area of community	No				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset Future area without offset (adjusted hectares)	0.0	Risk of loss (%) with offset Future area with offset (adjusted hectares)	0.0										
						Time until ecological benefit	ecological (s	Start quality (scale of 0- 10)		Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)											
										Threate	ned spec	ies habitat											
						Time over		54.4		Risk of loss (%) without offset	100%	Risk of loss (%) with offset	30%									Recent WA Ministerial Statements & offset	
lator	Area of habitat	Yes 44	447.72	Adjusted hectares		which loss is averted (max. 20 years)	20	Start area (hectares)	639.6	Future area without offset (adjusted hectares)	0.0	Future area with offset (adjusted hectares)	447.7	447.72	90%	402.95	387.16	0.00	0.00%	No	\$1,150,000.00	packages for the Pilbara have offset values between \$1,500 to \$3,000/ha. This equates to between \$671,580 and	
Offset calculator						Time until ecological benefit	1	Start quality (scale of 0- 10)	7	Future quality without offset (scale of 0-10)	0	Future quality with offset (scale of 0-10)	0	0.00	90%	0.00	0.00					\$1,343,160 over the life of the project.	
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon	(years)	Start value		Start value Future value without offset		Future valuoffse		Raw gain	Confidence in result (%)	Adjusted gain	Net preser	nt value	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source	
	Number of features e.g. Nest hollows, habitat trees	No																					
	Condition of habitat Change in habitat condition, but no change in extent	No																					
										Thre	eatened s	species											
	Birth rate e.g. Change in nest success	No																					
	Mortality rate e.g Change in number of road kills per year	No																					
	Number of individuals e.g. Individual plants/animals	No																					

	Summary													
							Cost (\$)							
	Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Direct offset (S)	Other compensatory measures (\$)	Total (\$)						
	Birth rate	0						\$0.00						
Summary	Mortality rate	0				\$0.00		\$0.00						
Sum	Number of individuals	0				\$0.00		\$0.00						
	Number of features	0				\$0.00		\$0.00						
	Condition of habitat	0				\$0.00		\$0.00						
	Area of habitat	447.72	0.00	0.00%	No	\$1,150,000.00	N/A	\$1,150,000.00						
	Area of community	0				\$0.00		\$0.00						
						\$1,150,000.00	\$0.00	\$1,150,000.00						

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Annual probability of extinction Based on IUCN category definitions	0.2%									

			Impact calcul	ator										
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imp	oact	Units	Information source							
			Ecological co	ommunities										
				Area										
	Area of community	No	Pindan	Quality										
				Total quantum of impact	0.00									
	Threatened species habitat													
				Area	1633	Hectares	Condtion of vegetation ranged from good to excellent (Mattiske							
ator	Area of habitat	Yes	Temporary Clearing for Mining Excavation	Quality	7	Scale 0-10	2016). Some low level disturbance, associated with cattle and some areas subject to fire. Quality varies							
Impact calculator				Total quantum of impact	#####	Adjusted hectares	across site, so an average quality was assumed.							
Imp	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imp	pact	Units	Information source							
	Number of features e.g. Nest hollows, habitat trees	No												
	Condition of habitat Change in habitat condition, but no change in extent	No												
	Threatened species													
	Birth rate e.g. Change in nest success	No												
	Mortality rate e.g Change in number of road kills per year	No												
	Number of individuals e.g. Individual plants/animals	No												



										Offset c	alculato	or										
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon	(years)	Start are: qualit		Future are quality withe		Future are quality wit		Raw gain	Confidence in result (%)	Adjusted gain	Net prese (adjusted l		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
										Ecolog	ical Com	nmunities										
	Area of community	No				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset Future area without offset (adjusted	0.0	Risk of loss (%) with offset Future area with offset (adjusted	0.0									
						Time until ecological benefit		Start quality (scale of 0- 10)	art quality Futur vicale of 0-	Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)										
										Threate	ned speci	ies habitat										
						Time over		Start area		Risk of loss (%) without offset	20%	Risk of loss (%) with offset	0%									
lator	Area of habitat	Yes 1	1143.03	Adjusted hectares		averted (max. 20 years)	10	(hectares)	1632.9	Future area without offset (adjusted hectares)	1306.3	Future area with offset (adjusted hectares)	1632.9	326.58	100%	326.58	320.12	1043.78	91.32%	Yes	\$500,000.00	
Offset calculator						Time until ecological benefit	2	Start quality (scale of 0- 10)	7	Future quality without offset (scale of 0-10)	0	Future quality with offset (scale of 0-10)	7	7.00	90%	6.30	6.27					
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon	(years)	Start value		Start value Future value without offset		Future val		Raw gain	Confidence in result (%)	Adjusted gain	Net prese	nt value	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
	Number of features e.g. Nest hollows, habitat trees	No																				
	Condition of habitat Change in habitat condition, but no change in extent	No																				
										Thr	eatened s	species										
	Birth rate e.g. Change in nest success	No																				
	Mortality rate e.g Change in number of road kills per year																					
	Number of individuals e.g. Individual plants/animals	No																				

	Summary													
							Cost (\$)							
	Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Direct offset (S)	Other compensatory measures (S)	Total (\$)						
	Birth rate	0				\$0.00		\$0.00						
Summary	Mortality rate	0				\$0.00		\$0.00						
Sum	Number of individuals	0				\$0.00		\$0.00						
	Number of features	0				\$0.00		\$0.00						
	Condition of habitat	0				\$0.00		\$0.00						
	Area of habitat	1143.03	1043.78	91.32%	Yes	\$500,000.00	\$156,616.61	\$656,616.61						
	Area of community	0				\$0.00		\$0.00						
				•		\$500,000.00	\$156,616.61	\$656,616.61						