

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 | |
|--|------------|
| Name | Bilby |
| EPBC Act status | Vulnerable |
| Annual probability of extinction Based on IUCN category definitions | 0.2% |

| Key to Cell Colours |
|-----------------------------|
| User input required |
| Drop-down list |
| Calculated output |
| Not applicable to attribute |

| Impact calculator | | | | | | |
|--|-----------------------------|--|-------------------------|-------|-------------------|--|
| Protected matter attributes | Attribute relevant to case? | Description | Quantum of impact | | Units | Information source |
| <i>Ecological communities</i> | | | | | | |
| Area of community | No | Pindan | Area | | | |
| | | | Quality | | | |
| | | | Total quantum of impact | 0.00 | | |
| <i>Threatened species habitat</i> | | | | | | |
| Area of habitat | Yes | Temporary Clearing for Mining Excavation | Area | 1633 | Hectares | Condition of vegetation ranged from good to excellent (Mattiske 2016). Some low level disturbance, associated with cattle and some areas subject to fire. Quality varies across site, so an average quality was assumed. |
| | | | Quality | 7 | Scale 0-10 | |
| | | | Total quantum of impact | ##### | Adjusted hectares | |
| <i>Threatened species</i> | | | | | | |
| 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 calculator | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|-------------------------|-------------------|---|---|----|------------------------|--|--|---|-------------------------------------|---|----------|--|---------------|---------------------------------------|--------------------|--|-----------------|--------------------|
| Protected matter attributes | Attribute relevant to case? | Total quantum of impact | Units | Proposed offset | Time horizon (years) | | Start area and quality | | Future area and quality without offset | | Future area and quality with offset | | Raw gain | Confidence in result (%) | Adjusted gain | Net present value (adjusted hectares) | % of impact offset | Minimum (90%) direct offset requirement met? | Cost (\$ total) | Information source |
| <i>Ecological Communities</i> | | | | | | | | | | | | | | | | | | | | |
| Area of community | No | | | | Risk-related time horizon (max. 20 years) | | Start area (hectares) | Risk of loss (% without offset) | | Risk of loss (% with offset) | | | | | | | | | | |
| | | | | | | | | Future area without offset (adjusted hectares) | 0.0 | Future area with offset (adjusted hectares) | 0.0 | | | | | | | | | |
| | | | | | | | | Time until ecological benefit | | Start quality (scale of 0-10) | | Future quality without offset (scale of 0-10) | | Future quality with offset (scale of 0-10) | | | | | | |
| <i>Threatened species habitat</i> | | | | | | | | | | | | | | | | | | | | |
| Area of habitat | Yes | 1143.03 | Adjusted hectares | Progressive rehabilitation following mining | Time over which loss is averted (max. 20 years) | 10 | Start area (hectares) | 1632.9 | Risk of loss (% without offset) | 20% | Risk of loss (% with offset) | 0% | | | | | | | | |
| | | | | | | | | Future area without offset (adjusted hectares) | 1306.3 | Future area with offset (adjusted hectares) | 1632.9 | | | | | | | | | |
| | | | | | | | | 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 | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| <i>Threatened species</i> | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | |
|-----------------------------|-------------------|-----------------------------|--------------------|-------------------------|---------------------|----------------------------------|---------------------|
| Protected matter attributes | Quantum of impact | Net present value of offset | % of impact offset | Direct offset adequate? | Cost (\$) | | |
| | | | | | Direct offset (\$) | Other compensatory measures (\$) | Total (\$) |
| | | | | | Birth rate | 0 | |
| Mortality rate | 0 | | | | \$0.00 | \$0.00 | \$0.00 |
| Number of individuals | 0 | | | | \$0.00 | \$0.00 | \$0.00 |
| Number of features | 0 | | | | \$0.00 | \$0.00 | \$0.00 |
| Condition of habitat | 0 | | | | \$0.00 | \$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 | \$0.00 |
| | | | | | \$500,000.00 | \$156,616.61 | \$656,616.61 |