

# MANGOOLA OPEN CUT

GLENCORE

## **Annual Compliance Report 2024** **EPBC 2018/8280** 1 January to 31 December 2024



# Table of Contents

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<b>1.</b>	<b>Introduction .....</b>	<b>2</b>
<b>2.</b>	<b>Purpose and Scope .....</b>	<b>2</b>
<b>3.</b>	<b>Activities During the Reporting Period .....</b>	<b>2</b>
<b>4.</b>	<b>Compliance Assessment .....</b>	<b>3</b>
<b>5.</b>	<b>Conclusion and Action Plan.....</b>	<b>14</b>

# 1. Introduction

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Mangoola Coal Mine is an open cut coal mine located approximately 20 kilometres (km) west of Muswellbrook and 10km north of Denman in the Upper Hunter Valley of NSW. Mangoola Coal Operations Pty Limited (Mangoola) has operated the Mangoola Coal Mine under Project Approval (PA) 06\_0014 since mining commenced at the site in September 2010.

On 26 April 2021, Mangoola was granted Development Consent for State Significant Development (SSD) 8642 by the NSW Independent Planning Commission (IPC) for continued operations at the Mangoola Coal Mine. SSD 8642 enables the continuation of mining at Mangoola Coal Mine at up to 13.5 million tonnes per annum (Mtpa) of Run of Mine (ROM) coal through to 2030. On 21 November 2022, Mangoola surrendered PA06\_0014 in accordance with Schedule 2, Condition A15 of SSD8642.

Approval under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) for the Project (EPBC 2018/8280) was obtained on 1 October 2021, with controlling provisions being Listed Threatened Species and Communities, and Water Resources. A variation of conditions 9 and 10 was issued 25 July 2023. A subsequent variation of conditions 9 and 10 was issued 20 February 2024.

# 2. Purpose and Scope

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This compliance report has been prepared by Mangoola to satisfy the requirements of Condition 18 of EPBC 2018/8280 and provides an assessment of compliance against each of the conditions of the approval for the 2024 calendar year.

This report will be published on the Mangoola website and provided to the Department as required by Condition 18.

# 3. Activities During the Reporting Period

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Mining operations officially commenced under SSD 8642 on 1 December 2022 in the MCCO Project area, otherwise known as Wybong Pit. Mangoola continued operations in Wybong Pit, with the first blast conducted on 19 January 2023 and first coal extracted on 28 August 2023. Coal extracted from Wybong Pit during 2024 totalled 4,925,943 tonnes.

Activities undertaken during the reporting period included open cut mining, coal processing, coal transport, and construction works. Truck and excavator mining methods are used to handle overburden and coal, following pre-strip and drilling and blasting activities. Product coal is loaded and transported to market via the rail loop connected to the Muswellbrook – Ulan railway. The mine operates 24 hours a day, seven days a week, and currently employs 482 full time equivalent employees.

Throughout the reporting period, 51 exploration holes were drilled within the Wybong Pit area of ML 1817 and 3 exploration holes were drilled within the AL9 area.

Land clearing is undertaken in accordance with the Mangoola Environmental Management System (EMS). Areas are assessed prior to clearing to minimise potential ecological, water management, sediment and erosion, and cultural heritage impacts in accordance with pre-clearing requirements.

Open cut mining operations continued during the reporting period, with 11.47 million tonnes (Mt) of ROM coal being extracted from Main Pit, South Pit and Wybong Pit combined. Approximately 34.98

million bank cubic metres (BCM) of overburden were moved. During 2024, three additional haul trucks were added to the mining fleet to manage the coal haulage from the Wybong Pit and no gravel crushing operations occurred.

During the reporting period approximately 9.1 Mt of product coal, 0.96 Mt of tailings and 1.18 Mt of coarse rejects were produced from the CHPP. The CHPP washed or bypassed all coal produced at Mangoola, with Tailings Dam 4 used for fine rejects disposal.

Tailings is currently being deposited in Tailings Dam 4 which has sufficient capacity for Life-Of-Mine. No capping was undertaken for Tailings Dam 1 or Tailings Dam 2 during 2024. Capping of Tailings Dam 1 will commence in 2025.

During the reporting period there were 2074 train movements from the Mangoola rail loader, which transported approximately 9.157 Mt of coal. Each train consists of two movements (one movement into the loop and one movement out of the loop). This equates to an average of 5.66 daily train movements generated by Mangoola, with a maximum of 16 train movements in one day. This is within the 20 train movements per day limit stipulated in Condition B93 of SSD 8642. No coal was transported other than by rail during the reporting period.

An ancillary infrastructure bund was constructed in 2024 to minimise runoff collected in the dirty and mine water systems.

## 4. Compliance Assessment

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Table 1 lists the conditions of EPBC 2018/8280 and provides the outcomes of the compliance assessment that has been undertaken for the 2024 calendar year. The compliance assessment presents a compliance status finding against each condition as 'compliant', 'non-compliant' or 'not triggered'. Comments are provided against conditions where required.

Table 1 Mangoola Coal Mine EPBC 2018/8280 Compliance Assessment 2023

Condition Number	Condition	Compliance Status	Comment
1	The approval holder must not extract or process more than 52 million tonnes of run-of mine coal from the MCCO Additional Project Area	Compliant	Coal extraction commenced in Wybong Pit (MCCO Additional Project Area) in August 2023. ROM coal extracted to end December 2023 was 304,982 tonnes. ROM coal extracted between end December 2023 and end December 2024 was 4,925,943 tonnes. Total ROM coal extracted to end December 2024 was <b>5,230,925</b> tonnes.
2	The approval holder must comply with conditions B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B85-91 of Part B of the State development consent.	Compliant	
3	The approval holder must ensure the action has negligible impacts to Groundwater Dependent Ecosystems (the GDE Performance Measure). a. The approval holder must include in the Groundwater Management Plan required by condition B50(v) of the State development consent: i. a program to monitor the GDE Performance Measure ii. A trigger action response plan to respond to any exceedances of the GDE Performance Measure iii. A plan to repair and mitigate any exceedances. b. The approval holder must notify the Department within 5 business days of detecting an exceedance of the GDE Performance Measure and the proposed repairs and/or mitigation work to be undertaken. In the event an exceedance of the GDE Performance Measure cannot be repaired or mitigated, the approval holder must provide an offset. The offset must be approved by the Minister.	Compliant	GDE monitoring is undertaken annually with results reported in the Annual Review available on the Mangoola website.
4	For the protection of surface water quality, the approval holder must: a. Ensure the action has negligible impacts to surface water quality. b. Submit a list of water quality monitoring parameters and performance criteria for the Ministers approval. The approved water quality parameters and performance criteria are to be included in the Surface water management plan (condition B50(iv) of the State development consent). The	Compliant	

Condition Number	Condition	Compliance Status	Comment
	<p>water quality parameters must include (but not limited to) key metals (total and dissolved) and nutrients. Coal extraction from the MCCO Additional Project Area cannot commence until the water quality monitoring parameters and performance criteria have been approved by the Minister (the approved water quality parameters and performance criteria).</p> <p>i. The approved water quality parameters and performance criteria are subject to the same requirements as the performance measures listed in Table 6, condition B48 of the State development consent.</p> <p>c. Prepare a Stream Monitoring Program for the Hunter River discharge point which includes:</p> <p>i. a map showing the water discharge location on the Hunter River associated with the action. The map must also identify the receiving waters.</p> <p>ii. baseline water quality data of the approved water quality parameters for the receiving waters, upstream and downstream of any water discharge locations associated with the action and identified in condition 4c(i)</p> <p>iii. expected water quality, volume, timing (seasonal) and frequency of discharged water and the potential impacts to surface water quality</p> <p>iv. proposed mitigation measures to reduce impacts of the discharged water to the receiving environment</p> <p>v. a program to monitor the approved water quality parameters against the performance criteria within the receiving waters. The monitoring program must be designed to detect impacts to water quality directly associated with the action and be able to distinguish from natural variability and upstream impacts</p> <p>vi. a program to monitor stream biota within the receiving waters. The program must include site-specific guideline values and mitigation strategies following sampling events.</p> <p>vii. Coal extraction in the MCCO Additional Project Area cannot commence until the Stream Monitoring Program has been approved by the Minister.</p>		
5	<p>The approval holder must provide the Department with the version of the Water Management Plan approved by the NSW Planning Secretary as required by condition B50 of the State development consent within 5 business days of its approval by the NSW Planning Secretary.</p>	Not Triggered	
6	<p>The approval holder must notify the Department within 5 business day of submitting a request to change the approved Water Management Plan approved by the NSW Planning Secretary. If the revised version of the Water Management Plan is approved by the NSW Planning Secretary, the approval holder must provide the Department with the approved revised Water</p>	Compliant	Mangoola notified the Department on 19 December 2024 that the Groundwater Management Plan, a sub plan of the Water Management Plan, had been submitted to

Condition Number	Condition	Compliance Status	Comment
	Management Plan within 5 business days of its approval and outline what changes have been made and any implications for protected matters.		the Department of Planning Infrastructure and Housing (DPHI) for review and approval. A copy of the updated GWMP together with a cover letter was supplied which outlined the changes made and any implications for protected matters.
7	If, at any time during the period for which this approval has effect, the approval holder detects or predicts an exceedance of any trigger levels which are specified in the approved Groundwater Management Plan or Surface Water Management Plan required by condition B50 of the State development consent, the approval holder must notify the Department of the exceedance in writing within 5 business days of detecting or predicting the exceedance	Compliant	<p>Exceedances of trigger levels were reported as required on the below dates:</p> <ul style="list-style-type: none"> <li>12 January 2024</li> <li>16 February 2024</li> <li>15 March 2024</li> <li>09 April 2024</li> <li>14 May 2024</li> <li>14 June 2024</li> <li>16 July 2024</li> <li>19 August 2024</li> <li>16 September 2024</li> <li>14 October 2024</li> <li>13 November 2024</li> <li>13 December 2024</li> </ul> <p>Investigations, as required within the TARPs outlined within the GWMP and SWMP, determined that no incident occurred (as defined within the SSD8642 and EPBC Approval 2018/8280) during any of the above dates. Further information will be reported in the 2024 Annual Review.</p> <p>As requested by the Department, the process of investigation as outlined within</p>

Condition Number	Condition	Compliance Status	Comment											
			the GWMP and SWMP was discussed with Natalia Rodriguez and Karina Richards (from the Department) via online meeting with Mangoola on 9 January 2024.											
8	<p>The approval holder must not exceed the clearing limits specified below and shown in Annexure 2:</p> <p>a. 24.3 hectares of the White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland EPBC Act listed ecological community.</p> <p>b. 148 hectares of Regent Honeyeater (<i>Anthochaera phrygia</i>) habitat.</p> <p>c. 148 hectares of Swift Parrot (<i>Lathamus discolor</i>) habitat.</p> <p>d. 162.7 hectares of Grey-headed flying fox (<i>Pteropus poliocephalus</i>) habitat.</p> <p>e. 101.6 hectares of land containing <i>Prasophyllum sp</i> Wybong habitat.</p>	Compliant												
9	<p>The approval holder must retire the biodiversity credits specified in Table 1 by 30 June 2024. The credits must be retired in accordance with the NSW Biodiversity Offset Scheme under the <i>NSW Biodiversity Conservation Act 2016</i> and to the satisfaction of the Biodiversity Conservation Trust. If biodiversity credits are not retired by this date, coal extraction in the MCCO Additional Project Area must cease until biodiversity credits are retired.</p> <p>Table 1 – Credits to be retired</p> <table border="1" data-bbox="349 962 1384 1347"> <thead> <tr> <th data-bbox="349 962 660 1077">Protected matter</th> <th data-bbox="665 962 1131 1077">Associated PCT Community</th> <th data-bbox="1135 962 1272 1077">Area (ha)</th> <th data-bbox="1276 962 1384 1077">Credits required</th> </tr> </thead> <tbody> <tr> <td data-bbox="349 1080 660 1347" rowspan="2">White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland ecological community</td> <td data-bbox="665 1080 1131 1197">HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter</td> <td data-bbox="1135 1080 1272 1197">17.8</td> <td data-bbox="1276 1080 1384 1197">1,136</td> </tr> <tr> <td data-bbox="665 1200 1131 1347">HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter</td> <td data-bbox="1135 1200 1272 1347">6.46</td> <td data-bbox="1276 1200 1384 1347">253</td> </tr> </tbody> </table>	Protected matter	Associated PCT Community	Area (ha)	Credits required	White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland ecological community	HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter	17.8	1,136	HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46	253	Compliant	<p>The offset package, which was a 100% like-for-like offset package, met the offsetting credit liability through the generation of ecosystem and species credits at the following offset sites:</p> <ul style="list-style-type: none"> <li>• Mangoola (BS0150 – 19 April 2024)</li> <li>• Wybong Heights (BS0134 – 14 February 2024)</li> <li>• Mangrove (BS0138 - 14 February 2024)</li> <li>• Highfields (BS0106 – 14 February 2024)</li> </ul> <p>The above four offset sites are protected in perpetuity as Stewardship Sites under the Biodiversity Conservation Act 2016 (BC Act).</p> <p>All credits required to be retired from the above four offset sites to meet the MCCO credit obligations were retired by 28 June 2024.</p>
Protected matter	Associated PCT Community	Area (ha)	Credits required											
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland ecological community	HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter	17.8	1,136											
	HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46	253											

Condition Number	Condition	Compliance Status	Comment	
	Regent Honeyeater ( <i>Anthochaera phrygia</i> ) / Swift Parrot ( <i>Lathamus discolor</i> )	HU816 - Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter	6.30 369	
	HU817 - Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter	135.2 7,821		
	HU821- Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46 253		
	Grey-headed flying fox ( <i>Pteropus poliocephalus</i> )	HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter	14.7 1,151	
	HU816 - Spotted Gum - Narrow leaved Ironbark shrub- grass open forest of the central and lower Hunter	6.3 369		
	HU817 - Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter	135.2 7,821		
	HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46 253		
	<p>Note: The credits in Table 1 were calculated in accordance with the Framework for Biodiversity Assessment of the NSW Biodiversity Offset Policy for Major Projects (OEH, 2014) and will need to be converted to reasonably equivalent 'biodiversity credits', within the meaning of the NSW Biodiversity Conservation Act 2016, for the credits are to be retired in accordance with the Biodiversity Offsets Scheme of the NSW Biodiversity Conservation Act 2016.</p>			

Condition Number	Condition	Compliance Status	Comment
10	<p>To compensate for the significant residual impacts of the Action to <i>Prasophyllum</i> sp Wybong, the approval holder must, prior to 30 June 2024, submit:</p> <p>a. Evidence, submitted electronically to the department, that at least 193.1ha of <i>Prasophyllum</i> sp Wybong offset habitat has been secured under a Biodiversity Stewardship Agreement. If evidence is not submitted by 30 June 2024, the approval holder must cease coal extraction within the MCCO Additional Project Area. Coal extraction within the MCCO Additional Project Area may only recommence once evidence is submitted electronically to the department that demonstrates at least 193.1 ha of <i>Prasophyllum</i> sp Wybong offset habitat has been secured under a Biodiversity Stewardship Agreement.</p> <p>b. To compensate for significant residual impacts of the Action to <i>Prasophyllum</i> sp Wybong, the approval holder must submit a <i>Prasophyllum</i> sp Wybong offset management plan (this can be provided separately or as part of the Biodiversity Management Plan). This plan must be approved in writing by the Minister and must be implemented until the expiry date of this approval. The offset management plan must be prepared by a suitably qualified <i>Prasophyllum</i> sp Wybong expert and must include, but not be limited to:</p> <p>i. identification of potential direct and indirect impacts to the <i>Prasophyllum</i> sp Wybong individuals and/or habitat in the offset area;</p> <p>ii. management actions proposed to minimise impacts to the <i>Prasophyllum</i> sp Wybong individuals and/or habitat in the offset area;</p> <p>iii. performance indicators and trigger thresholds for the population size and habitat condition. Both short and long term performance indicators and trigger thresholds should be included to account for seasonal variations;</p> <p>iv. a program to monitor and evaluate the population size and habitat condition against the performance indicators and trigger thresholds;</p> <p>v. an action plan to respond to exceedances and/or failure to meet the performance indicators and thresholds.</p>	Compliant	Evidence sent via email 27 June 2024.
11	<p>The approval holder must provide the Minister with an annual report outlining the results of the monitoring and management actions required under the <i>Prasophyllum</i> sp Wybong offset management plan, within 60 business days of the end of the calendar year.</p>	Not Triggered	A letter has been sent regarding this condition. As the <i>Prasophyllum</i> sp Wybong offset management plan is still in draft, this condition has not been triggered.

Condition Number	Condition	Compliance Status	Comment
12	The approval holder must comply with condition B57 of the State development consent to prepare and implement the Biodiversity Management Plan. The approval holder must comply with conditions B54, B55 <sup>1</sup> , B56, B57, B58 and B59 of Part B of the State development consent (to the extent the conditions in Part B relate to EPBC Act threatened species and ecological communities).	Compliant	The Mangoola Biodiversity Offset Management Plan and Strategy (BOMPS) was approved by the Department of Planning and Environment on 10 August 2022. The BOMPS is available on the Mangoola website.
13	Notification of date of commencement of the action The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action.	Compliant	Notification of commencement letter provided to the Department on 9 December 2021 advising that commencement of the action occurred on 6 December 2021.
14	If the commencement of the action does not occur within 5 years from the date of this approval, then the approval holder must not commence the action without the prior written agreement of the Minister.	Compliant	EPBC 2018/8280 was granted 1 October 2021 and commenced on 6 December 2021.
15	Compliance records The approval holder must maintain accurate and complete compliance records.	Compliant	
16	If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request. Note: Compliance records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the Department's website or through the general media.	Not Triggered	
17	Submission and publication of plans The approval holder must: a. submit plans electronically to the Department; b. unless otherwise agreed to in writing by the Minister; i. publish each plan on the website within 20 business days of the date:	Compliant	The approved versions of the management plans required by SSD 8642 are available on the Mangoola website.

<sup>1</sup> The Department notes that the 2012 version of the plan referred to in State condition B55 has been updated to version 3 dated 5 November 2018 or latest version as updated from time to time.

Condition Number	Condition	Compliance Status	Comment
	<p>I. of this approval if the version of the plan to be implemented is specified in these conditions or in the State development consent;</p> <p>II. the plan is approved by the Minister; or the plan is approved by the NSW Planning Secretary if the plan is required under the State development consent to be approved by the NSW Planning Secretary;</p> <p>ii. exclude or redact sensitive ecological data from plans published on the website or provided to a member of the public and, if sensitive ecological data is redacted from any plan, submit an unredacted electronic version of the plan to the Department explaining what redactions have been made in the published version; and</p> <p>iii. keep plans published on the website until the end date of this approval.</p>		
18	<p>Annual compliance reporting</p> <p>The approval holder must prepare a compliance report addressing compliance with each of the conditions of this approval, including implementation of any management plans and strategies from the State development consent that are referred to in this approval, every calendar year, or otherwise in accordance with an annual date that has been agreed to in writing by the Minister. The approval holder must:</p> <p>a. publish each compliance report on a website within 60 business days following the relevant 12 month period,</p> <p>b. notify the Department by email that a compliance report has been published on the website and provide the website's link for the compliance report within five business days of the date of publication,</p> <p>c. keep all compliance reports publicly available on the website until this approval expires,</p> <p>d. exclude or redact sensitive ecological data from compliance reports published on the website, and</p> <p>e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication.</p> <p>Note: Compliance reports may be published on the Department's website.</p>	Compliant	This report.
19	Reporting non-compliance	Not Triggered	

Condition Number	Condition	Compliance Status	Comment
	<p>The approval holder must notify the Department in writing of any: incident, or non-compliance with the conditions of this approval. The notification must be given as soon as practicable, and no later than 5 business days after becoming aware of the incident or non-compliance. The notification must specify:</p> <ul style="list-style-type: none"> <li>a. the condition of this approval or any State condition (if applicable) referred to in this approval which is in breach.</li> <li>b. a short description of the incident and/or non-compliance, and</li> <li>c. the location (including co-ordinates), date, and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.</li> </ul>		
20	<p>The approval holder must provide to the Department the details of any incident or non-compliance with the conditions of this approval as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying:</p> <ul style="list-style-type: none"> <li>a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future,</li> <li>b. the potential impacts of the incident or non-compliance, and</li> <li>c. the method and timing of any remedial action that will be undertaken by the approval holder.</li> </ul>	Not Triggered	
21	<p>Independent audit The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the Minister.</p>	Not Triggered	
22	<p>For each independent audit, the approval holder must:</p> <ul style="list-style-type: none"> <li>a. provide the name and qualifications of the independent auditor and the draft audit criteria to the Department,</li> <li>b. only commence the independent audit once the audit criteria have been approved in writing by the Department, and</li> <li>c. submit an audit report to the Department within the timeframe specified in the approved audit criteria.</li> </ul>	Not Triggered	
23	<p>The approval holder must publish the audit report on the website within 10 business days of receiving the Department's approval of the audit report and keep the audit report published on the website until the end date of this approval.</p>	Not Triggered	
24	Completion of the action	Compliant	

Condition Number	Condition	Compliance Status	Comment
	The approval holder must comply with condition A5 <sup>2</sup> in Schedule 2 of the State development consent.		
25	Within 20 business days after the completion of the action, the approval holder must notify the Department in writing and provide completion data.	Not Triggered	
26	Changes to State development consent The approval holder must notify the Department in writing of any proposed change to the State development consent that may relate to protected matters within 5 business days of formally proposing a change or within 5 business days of submitting an application to propose a change.	Not Triggered	
27	The approval holder must notify the Department in writing of any change to the State development consent conditions that may relate to protected matters, within 10 business days of a change to conditions being approved.	Not Triggered	

<sup>2</sup> Condition A5 in the State development consent states that mining operations may be carried out on the site until 31 December 2030

## 5. Conclusion and Action Plan

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This compliance report has been prepared by Mangoola in accordance with Condition 18 of EPBC 2018/8280.

GLENCORE