



ERA



Summary of Changes to the Ranger MCP since the 2018 submission

No.	Adapted from the Western Australian Mine Closure Plan checklist (DMP & EPA 2015)	Y/N/NA	Section No.	Changes from previous version	Comments
Cover Pages, incl approvals, contact details, version control and table of contents					
1	Do the MCP cover pages include: <ul style="list-style-type: none"> Project Title Company Name Contact Details Document ID and version number Date of submission 	Y	N/A	Updated for 2019 Mine Closure Plan (MCP)	
S1 Scope and purpose					
2	State why the MCP is submitted (i.e. to fulfil approval, regulatory or other legal requirements)	Y	1	<p>Section 1 was previously Chapter 1 Introduction, purpose and scope (2018 MCP).</p> <p>The structure of the MCP has been revised to further align with the Western Australian <i>Guidelines for Preparing Mine Closure Plans</i> (Environmental Protection Authority / Department of Mines and Petroleum, 2015)</p> <p>This revision of the MCP includes updated figures and details of the revised structure of the MCP. Some regulatory detail was moved to Section 3.</p> <p>Appendix A is the ERA responses to stakeholder feedback on the 2018 MCP.</p> <p>Appendix 1.1 is a form for the purpose of clear stakeholder feedback on the 2019 MCP.</p>	To meet condition B3 of Annex B, Authorisation 0108-18, issued under the <i>Mining Management Act 2001 (NT)</i>
S2 Project overview					
3	The project summary includes: <ul style="list-style-type: none"> Location of the project; Comprehensive site plan(s) Background information on the history and status of the project 		2	Section 2 was previously Chapter 3 Project overview (2018 MCP). It is largely unchanged, with regulatory and land tenure detail moved to Section 3. Figures have been updated.	



ERA



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S3 Legal obligations and commitments					
4	Land ownership details (include any land management agency responsible for the land/reserve and the purpose for which the land/reserve [including surrounding land] is being managed)	Y	3	Section 3 Legal obligations and commitments is a new addition to the 2019 MCP. Section 3 includes land tenure detail and updated text relating to regulatory framework, legal obligations and standards (government and internal) relevant to closure. Figures have been updated.	
5	The MCP includes a consolidated summary or register of closure obligations and commitments	Y	3	Section 3 includes Appendix 3.1 Overview of primary legislation, agreements and authorisations and Appendix 3.2 Closure legal obligations register.	
S4 Environmental and social setting					
6	N/A	Y	4	Section 4 was previously Chapter 2 Environmental setting (2018 MCP). This revision of the MCP includes updated biological environment information (Section 4.3) and other minor updates throughout the section. Land tenure was moved from this section to Section 3.	
S5 Stakeholder engagement					
7	All stakeholders involved in closure have been identified	Y	5	Section 5 is largely unchanged from the previous Chapter 5. Information regarding the Jabiru transition has been removed as it falls outside of the scope of the MCP.	ERA has engaged, communicated and consulted with multiple stakeholder groups through various engagement activities. Appendix 5.1 is a stakeholder consultation register and has been added to the document and reflects stakeholder engagement on closure matters to 30 June 2019.
8	The MCP includes a summary or register of historic stakeholder engagement with details on who has been consulted and the outcomes	Y	5		



ERA



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9	The MCP includes a stakeholder consultation strategy to be implemented in the future	Y	5		Section 5 provides ERA's approach to stakeholder engagement.
S6 Post mining land use and closure objectives					
10	The MCP includes agreed post-mining land use(s), closure objectives and conceptual landform design diagram	Y	6	Section 6 was previously Chapter 4 Final land use and closure objectives (2018 MCP). Culturally important information on the biological environment moved to Section 4.	Closure objectives are aligned to the Environmental Requirements (ERs) as appended to the section 41 Authority, issued under the <i>Atomic Energy Act</i> and now annexed to the Ranger Authorisation issued under the <i>Mining Management Act</i> . There were no pre-existing environmental legacy sites at the RPA.
11	The MCP identifies all potential (or pre-existing) environmental legacies, which may restrict the post mining land use (including contaminated sites)	Y	6		
12	Soil or groundwater contamination that occurred, or is suspected to have occurred, during the operation of the mine, has been managed / reported in accordance with the Authorisation	Y	11		
S7 Supporting studies					
13	The MCP includes baseline data (including pre-mining studies and environmental data)	Y	7	Section 7 was previously Chapter 7 Supporting Studies (2018 MCP) and has been updated to incorporate summaries of biological surveys and technical studies that have occurred since submission of the previous Mine Closure Plan (2018 MCP).	
14	Materials characterisation has been carried out consistent with applicable standards and guidelines.	Y	11	Addressed in Section 11.	



ERA



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15	The MCP identifies all key issues impacting mine closure objectives and outcomes (including potential contamination impacts)	Y	4 / 6 / 7 / 10	Section 4 provides describes the key environmental setting issues impacting mine closure, Section 6 describes the mine closure objectives, 7 describes the studies that have been undertaken to further develop ERA's understanding of closure issues, including potential contamination impacts. Appendix 7.1 is included to summarise projects aligned to the Key Knowledge Needs, which will further inform closure.	
S8 Closure completion criteria					
16	The MCP includes an appropriate set of specific completion criteria and closure performance indicators	Y	8	Section 8 was previously Chapter 6 Development of closure criteria (2018 MCP). Closure criteria have been revised to reflect the increased knowledge base arising from the outcomes of ongoing technical studies and in consideration of stakeholder feedback on the 2018 MCP criteria.	Further development of some completion criteria will occur in the next 12 months with stakeholder input and finalisation of relevant studies.
S9 Best practicable technology					
17	The MCP identifies applicable closure learning from benchmarking against other comparable mine sites	Y	7 / 9	Section 9 was previously Chapter 8 Best Practicable Technology (2018 MCP) and has been updated to include summaries of closure related best practicable technology assessments that have occurred since submission of the last Ranger Mine Closure Plan (2018 MCP).	Benchmarking is integral to all BPTs (Section 9), and other site studies are referred to within Section 7.



ERA



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S10 Risk assessments and management					
18	The MCP includes a gap analysis/risk assessment to determine if further information is required a relation to closure of each domain or feature	Y	10	Section 10 was previously Chapter 9 Risk assessment and management (2018 MCP).	
19	The MCP includes the process, methodology and has the rationale been provided to justify identification and management of the issues	Y	10	This revision of the MCP includes an updated risk assessment, which considered the comments received from the Supervising Scientist on the 2018 MCP risk section, as well as contemporised the risks to align with the current status of the Ranger Mine closure. Supporting text in this section was updated to discuss the outcomes of the risk assessment. The section also includes a new section discussing class IV risks.	
S11 Closure implementation					
20	The MCP includes information relevant to mine closure for each domain or feature	Y	11/App 7.1	Section 11 was previously Chapter 10 Closure implementation (2018 MCP). It has been changed to reflect the most recent activities and outcomes of the 2018 Feasibility Study, with additional sections discussing the Ranger 3 Deeps exploration decline and schedules for closure activities. A new domain figure has been included.	Section 11 describes the closure approach by domain/activities. Appendix 7.1 summarises projects aligned to the Key Knowledge Needs which will be undertaken to inform closure.
21	The MCP includes a summary of closure implementation strategies and activities for the proposed operation or for the whole site	Y	11		Section 11 includes a section on closure activities for each domain/activity where relevant.
22	The MCP includes a closure work program for each domain or feature	Y	11		Section 7.0 discusses future studies, and Section 11 includes a section on current and planned research for each domain/activity, where relevant.
23	The MCP contains a schedule of research and trial activities	Y	11		Section 11 includes a schedule of progressive rehabilitation tasks for domains/activities where relevant.
24	The MCP contains a schedule of progressive rehabilitation activities	Y	11		



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25	The MCP includes details of how unexpected closure and care and maintenance will be handled	Y	11		Section 11 includes a section on contingency plans for each domain/activity, where relevant.
26	The MCP contains a schedule of decommissioning activities	Y	11		Section 11 includes a section on decontamination and decommissioning for each domain/activity, where relevant.
27	The MCP contains a schedule of closure performance monitoring and maintenance activities	Y	11		Section 11.18 and Appendix 11.1 provides an overall closure implementation schedule.
S12 Closure monitoring					
28	The MCP contains a framework, including methodology, quality control and remedial strategy for closure performance monitoring including post-closure monitoring and maintenance	Y	12	Section 12 was previously Chapter 11 Closure monitoring and maintenance (2018 MCP). This revision of the MCP includes further detail on monitoring programs proposed through the closure and post-closure periods. All sections of the chapter have been updated, based on work been undertaken since the last version of the MCP.	
S13 Financial provisioning for closure					
29	The MCP includes costing methodology, assumptions and financial provision to resource closure implementation and monitoring	Y	13	Section 13 Financial provision for closure is a new section.	
30	The MCP includes a process for regular review of the financial provision	Y	13.2		
S14 Management of information and data					
31	The MCP contains a description of management strategies including system and processes for the retention of mine records	Y	14	Section 14 was previously Chapter 12 Management of Information and Data (2018 MCP). There are no substantive changes.	