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Summary of Changes to the Ranger MCP since the 2019 submission

No.	Adapted from the Western Australian Mine Closure Plan checklist (DMIRS 2020)	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 2020 Ranger Mine Closure Plan (MCP)	
S1 Scope and purpose					
<i>Comparative section in 2019 MCP: Section 1</i>					
2	State why the MCP is submitted (i.e. to fulfil approval, regulatory or other legal requirements)	Y	1	The structure of the MCP has been revised to align with the Western Australian <i>Mine Closure Plan Guidance – How to prepare in accordance with Part 1 of the Statutory Guidelines for Mine Closure Plans</i> (Department of Mines, Industry Regulation and Safety, 2020) and to improve the narrative flow of the document.	The Ranger MCP is submitted to meet condition B3 of Annex B, Authorisation 0108-18, issued under the <i>Mining Management Act 2001 (NT)</i>
S2 Project overview					
<i>Comparative section in 2019 MCP: Section 2</i>					
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 	Y	2	Updated, where required. Figures have been updated.	
S3 Closure obligations and commitments					
<i>Comparative section in 2019 MCP: Section 3</i>					
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 includes updates to the list of applicable legislation and standards as well as revised figures to improve image clarity. The obligations register has been updated with new conditions from	



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				approved applications over the past 12 months.	
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 Stakeholder engagement

Comparative section in 2019 MCP: Section 5

6	All stakeholders involved in closure have been identified	Y	4	Section 4 was previously Environmental and social setting (2019 MCP). The sections have been realigned to better reflect the structure required by the WA Statutory Guidelines for Mine Closure Plans.	The environmental and social settings are now both included in Section 5.
7	The MCP includes a summary or register of historic stakeholder engagement with details on who has been consulted and the outcomes	Y	4		
8	The MCP includes a stakeholder consultation strategy to be implemented in the future	Y	4		Section 4 is now Stakeholder Engagement and includes an updated figure depicting the stakeholder linkages and a new table to outline the ERA principles for stakeholder engagement. Appendix 4.1, Ranger Mine closure stakeholder consultation register, has been updated to include all stakeholder engagement on closure matters undertaken between July 2019 and June 2020.

S5 Baseline and closure data, and analysis

Comparative sections in 2019 MCP: Sections 4 & 7

9	The MCP includes baseline data (including pre-mining studies and environmental data)	Y	5	Baseline environmental and social data is now presented as a preface to the results and proposals of all current and planned ERA research. The intent of this restructure is to aid in narrative flow. Summaries for each closure study have been	
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				updated with where new data is available. Studies are now organised by Key Knowledge Need (KKN) theme where practical.	
10	The MCP identifies all key issues impacting mine closure objectives and outcomes (including potential contamination impacts)	Y	5 / 7 / 8	Section 5 now describes the environmental setting including the current and future research to refine this information and identify the likely environmental impacts of the proposed rehabilitation approaches. Section 7 details all major environmental risks identified during and after rehabilitation. Section 8 now describes the closure objectives, developed to ensure the agreed upon post mining landuse can be realised.	

S6 Best practicable technology

Comparative section in 2019 MCP: Section 9

11	The MCP identifies applicable closure learning from benchmarking against other comparable mine sites	Y	6	Section 6 is now Best practicable technology. The section has been updated to include all summaries of all best practicable technology assessments undertaken by ERA prior to June 2020.	Benchmarking is integral to all BPTs (Section 9), and other site studies are referred to within Section 7.
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S7 Risk assessment and management

Comparative section in 2019 MCP: Section 10

12	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	7	Section 7 is now Risk assessment and management. This revision of the MCP includes an updated risk assessment, to take into account all amendments made to closure risks since July 2019.	
13	The MCP includes the process, methodology and has the rationale been provided, to justify identification and management of the issues	Y	7		

S8 Post-mining landuse, closure objectives and closure criteria

Comparative sections in 2019 MCP: Sections 6 & 8

14	The MCP includes agreed post-mining land use(s), closure objectives and conceptual landform design diagram	Y	8	Sections 6 and 8 of the 2019 MCP have now merged to form Section 8 Post-mining landuse, closure objectives and closure criteria.	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.
15	The MCP identifies all potential (or pre-existing) environmental legacies, which may restrict the post mining land use (including contaminated sites)	Y	5 / 8	No changes	
16	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	5 / 8 / 9	Closure criteria for contaminated soils are included in Section 8.	Refer to Sections 5 and 9 for additional discussion on studies and management pertaining to contaminated land.
17	The MCP includes an appropriate set of specific completion criteria and closure performance indicators	Y	8	Closure criteria have been revised to reflect ongoing consultation with stakeholders to develop appropriate criteria.	The closure criteria for each key environmental theme are now presented in two categories; proposed criteria for minister approval and draft criteria for review



S9 Implementation

Comparative section in 2019 MCP: Section 11

18	Materials characterisation has been carried out consistent with applicable standards and guidelines.	Y	9	Implementation is now addressed in Section 9.	Materials characterisation is provided in Section 9
19	The MCP includes information relevant to mine closure for each domain or feature	Y	9 / 5	Closure implementation strategies for each closure domain within Section 9 is now presented as completed rehabilitation, current rehabilitation, planned rehabilitation and contingency planning. Closure activities, that fall outside of, or across multiple domains, are also discussed. The schedule of activities for closure has been updated to reflect the progress and planning of rehabilitation as of 30 June 2020.	Section 9 describes the closure implementation strategies by domain/activities. Section 5 summarises projects aligned to the Key Knowledge Needs which will be undertaken to inform closure.
20	The MCP includes a summary of closure implementation strategies and activities for the proposed operation or for the whole site	Y	9		Section 9 includes a section on closure activities for each domain/activity where relevant.
21	The MCP includes a closure work program for each domain or feature	Y	9		Section 5 discusses future studies. Trial activities are included in Section 9.
22	The MCP contains a schedule of research and trial activities	Y	9 / 5		Section 9 includes a schedule of progressive rehabilitation tasks for domains/activities where relevant.
23	The MCP contains a schedule of progressive rehabilitation activities	Y	9		Section 9 includes a section on contingency plans for each domain/activity, where relevant.
24	The MCP includes details of how unexpected closure and care and maintenance will be handled	Y	9		Section 9 includes a section on decontamination and decommissioning for each domain/activity, where relevant.
25	The MCP contains a schedule of decommissioning activities	Y	9		Section 10 provides information on closure performance monitoring methods and frequency
26	The MCP contains a schedule of closure performance monitoring and maintenance activities	Y	10		

S10 Closure monitoring and maintenance

Comparative section in 2019 MCP: Section 12

27	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 10 is now Closure monitoring and maintenance. This section has been updated to reflect progress in the development of closure and post-closure monitoring programs.	
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S11 Financial provision for closure
Comparative section in 2019 MCP: Section 13

28	The MCP includes costing methodology, assumptions and financial provision to resource closure implementation and monitoring	Y	11	Financial provision for closure is addressed in Section 11. There are no substantive changes to this section.	
29	The MCP includes a process for regular review of the financial provision	Y	11		

S12 Management of information and data
Comparative section in 2019 MCP: Section 14

30	The MCP contains a description of management strategies including system and processes for the retention of mine records	Y	12	Management of Information and data is now Section 12. There are no substantive changes.	
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