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| End of form |

Pits and extractives

**NOTE**: This form relates to an application for a tailored condition environmental mining licence.

| Table 2.1 Pits and Extractives | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Item** | | **Pertinent information** | | | | | | | | | | | | | | | | | |
| No. of pit operations | | Pit 1 (identify new or existing) | | | | | | Pit 2 (identify new or existing) | | | | | | Pit 3 (identify new or existing) | | | | | |
| Open pit or extractive | |  | | | | | |  | | | | | |  | | | | | |
| Titles | |  | | | | | |  | | | | | |  | | | | | |
| Target material/commodity | |  | | | | | |  | | | | | |  | | | | | |
| LOM year of construction | |  | | | | | |  | | | | | |  | | | | | |
| Pit | Total depth (m) |  | | | | | |  | | | | | |  | | | | | |
| Current Depth (m) (if existing pit) |  | | | | | |  | | | | | |  | | | | | |
| Dimensions | Length(m): | Width(m): | | | Volume (m³): | | Length(m): | Width(m): | | | Volume (m³) | | Length(m): | Width(m): | | | Volume(m³) | |
| Waste types to be encountered |  | | | | | |  | | | | | |  | | | | | |
| Pit wall Competency | Geological Zone | Depth range (m) | RQD\* (%) | Strength | | | Weathering state\* | Depth range (m) | RQD\* (%) | Strength | | | Weathering state\* | Depth range (m) | RQD\* (%) | Strength | | | Weathering state\* |
|  |  |  |  | | |  |  |  |  | | |  |  |  |  | | |  |
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| References |  | | | | | |  | | | | | |  | | | | | |
| Benches/Berms | Bench height (m): |  | | | | | |  | | | | | |  | | | | | |
| Bench width (m) |  | | | | | |  | | | | | |  | | | | | |
| Bench angle (H:V) |  | | | | | |  | | | | | |  | | | | | |
| Factor of Safety (FoS)\*  (assumes modelling undertaken) |  | | | | | |  | | | | | |  | | | | | |
| References |  | | | | | |  | | | | | |  | | | | | |
| Dewatering/pit stabilisation | Standing Water Level (SWL) |  | | | | | |  | | | | | |  | | | | | |
| Aquifers to dewater |  | | | | | |  | | | | | |  | | | | | |
| No of bores |  | | | | | |  | | | | | |  | | | | | |
| Extraction rate (ML/yr) |  | | | | | |  | | | | | |  | | | | | |
| Cone of depression distance (m) from pit at 0.5m contour |  | | | | | |  | | | | | |  | | | | | |
| Water management requirements |  | | | | | |  | | | | | |  | | | | | |
| References |  | | | | | |  | | | | | |  | | | | | |
| Diversions | Waterway name |  | | | | | |  | | | | | |  | | | | | |
| Length (m) |  | | | | | |  | | | | | |  | | | | | |
| Width (m) |  | | | | | |  | | | | | |  | | | | | |
| References |  | | | | | |  | | | | | |  | | | | | |
| Flood immunity (ARI) | Flood potential | Annual Recurrence Interval (ARI) | | | | | | Annual Recurrence Interval (ARI) | | | | | | Annual Recurrence Interval (ARI) | | | | | |
| 1:10 | 1:100 | | 1:500 | | PMF | 1:10 | 1:100 | | 1:500 | | PMF | 1:10 | 1:100 | | 1:500 | | PMF |
| Peak flood depth (m) |  |  | |  | |  |  |  | |  | |  |  |  | |  | |  |
| Flood mitigation required (Yes/No) |  |  | |  | |  |  |  | |  | |  |  |  | |  | |  |
| References |  | | | | | |  | | | | | |  | | | | | |
| Pit development method | Rationale |  | | | | | |  | | | | | |  | | | | | |
| Regulatory considerations | Authorisation (former MMA) | Authorisation XXXX-01:   * Condition XX – dewatering * Condition XX – clearing for pit | | | | | |  | | | | | |  | | | | | |
| NT EPA | Environmental Approval XXXXX   * Condition XX – dewatering | | | | | |  | | | | | |  | | | | | |
| EPBC Act |  | | | | | |  | | | | | |  | | | | | |
| Other |  | | | | | |  | | | | | |  | | | | | |
| Ancillary structures |  |  | | | | | |  | | | | | |  | | | | | |

| Table 2.2 Pits and Extractives - Risk, Controls and Management | | | | | | | | | | |
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| **Project Stage** | **General description of major works** | **Key risks**  **(Tick that apply)** | | | | | | **Controls** | **Management performance and monitoring** | **References** |
| **Flora & Fauna** | **Sacred Sites** | **Heritage** | **Water** | **Air/Dust** | **Other** |
| 1 | Clearing/site investigation   * Site investigation – drilling * Clearing site for stage 2 works below |  |  |  |  |  |  |  |  |  |
| 2 | Construction/Earthworks   * Earthworks to prepare foundations for small office * Connect office to services (water/power) |  |  |  |  |  |  |  |  |  |
| 3 | Commissioning/Operations   * Drill on 10x10m grid spaces to 5m; collect samples for grade control and waste classification * Load explosives for blasting * Geologists will mark blast material for ore and waste, based on testing * Waste placement on WRD 1, as per WRD Mgt plan |  |  |  |  |  |  |  |  |  |
| 4 | Unplanned closure   * Decommission all plant/infrastructure (cut services) * Remove all plant/infrastructure * Contaminated site investigation and rehabilitate any contaminated areas * Establish bund around perimeter for pit lake |  |  |  |  |  |  |  |  |  |
| 5 | Planned Closure   * Same as unplanned closure |  |  |  |  |  |  |  |  |  |