

Northern Star Resources FY24 Biodiversity Values

Production Centre/Operation/Project		Taxa, Community and/or Habitat	Location Relative to Operation/Project	Management Practices
Yandal Production Centre	Jundee Operations Bronzewing Operations	Multiple Priority Ecological Communities in association with invertebrates in groundwater calcretes Brush Tailed Mulgara (<i>Dasyercus blythi</i>) (P4)(LC) <i>Aristida jerichoensis</i> var. <i>subspinulifera</i> (P3) <i>Baeckea</i> sp. <i>Sandstone</i> (P3) <i>Eremophila arguta</i> (P1) <i>Eremophila congesta</i> (P1) <i>Eremophila</i> sp. <i>long pedicels</i> (P2) <i>Eremophila pungens</i> (P4) <i>Goodenia modesta</i> (P3) <i>Micromyrtus chrysodema</i> (P1) <i>Stackhousia clementii</i> (P3) <i>Tribulus adelacanthus</i> (P3) <i>Xanthoparmelia nashi</i> (P3)	Within and outside proposed disturbance areas Outside proposed disturbance area	<ul style="list-style-type: none"> Minimise water abstraction and land disturbance where possible. Subterranean fauna surveys are planned to understand species and extent. Avoid where possible and apply hierarchy of mitigation (avoid, minimise & rehabilitate). Biodiversity surveys completed prior to any disturbances within the area. Fauna relocation undertaken in areas of suitable habitat two weeks prior to disturbance. Inspections conducted by suitably trained personnel immediately prior to disturbance activities. Weed management practices are implemented during disturbance to prevent introduction of invasive species. Jundee Biodiversity Management Plan JUN-ENV-054-PLA
	Thunderbox Operations	<i>Calytrix erosipetala</i> (P3) <i>Calytrix uncinata</i> (P3)	None of these populations have been recorded in areas of planned impact	<ul style="list-style-type: none"> Avoid where possible and apply the mitigation hierarchy (avoid, minimise, rehabilitate, offset). Biodiversity surveys completed prior to any disturbances within the area. Biodiversity Management Plan TBO-ENV-040-PLA Weed and Feral Animal Control TBO-ENV-006-SWP Land Disturbance Procedure NSR-ENV-001-PRO
Kalgoorlie Production Centre	Carosue Dam Operations	Malleefowl (<i>Leipoa ocellata</i>) (VU) Southern Whiteface (<i>Aphelocephala leucopsis</i>) (VU) <i>Eremophila arachnoides subsp. tenera</i> (P3)	Within and outside proposed disturbance areas Outside proposed disturbance areas	<ul style="list-style-type: none"> Avoid where possible and apply the mitigation hierarchy (avoid, minimise, rehabilitate, offset). Biodiversity surveys completed prior to any disturbances within the area, including targeted Priority flora and fauna surveys in areas of suitable habitat. Biodiversity Management Plan CDO-ENV-051-PLA Rehabilitation Management Work Instruction CDO-ENV-027-SWP Implementation of site Weed Management Plan. Weed and Feral Animal Control CDO-ENV-024-SWP Land Disturbance Procedure NSR-ENV-001-PRO Implementation of Annual Malleefowl Monitoring on site and regional surveys. Avoid clearing or disturbing areas where this species is present.
	Kalgoorlie Operations (Kanowna Belle & South Kalgoorlie)	Malleefowl (<i>Leipoa ocellata</i>) (VU) <i>Eremophila praecox</i> (P2)	Outside proposed disturbance areas Within and outside proposed disturbance areas	<ul style="list-style-type: none"> Avoid where possible and apply hierarchy of mitigation (avoid, minimise & rehabilitate). Weed management practices are implemented during disturbance to prevent introduction of invasive species. Biodiversity surveys completed prior to any disturbances within the area, including targeted Priority flora and fauna surveys in areas of suitable habitat. Weed Management Procedure NSR-ENV-004-PRO Land Disturbance Procedure NSR-ENV-001-PRO Internal Disturbance Permit Forms required prior to any clearing.
	KCGM Operations	<i>Eremophila praecox</i> (P2) <i>Jalmenus aridus</i> (P1) <i>Ogyris subterrestris petrina</i> (CR)	Within and outside proposed disturbance areas	<ul style="list-style-type: none"> Biodiversity surveys undertaken prior to clearing activities, including targeted surveys for priority flora and fauna. Flora and Fauna Management Plan KCGM-ENV-070-PLA Significant Species Management Plan KCGM-FIM-ENV-010-PLA (Still being assessed by EPA) Vegetation Clearing and Rehabilitation Material Stripping KCGM-ENV-036-GUI Weed Management Procedure NSR-ENV-004-PRO Managing Native Stray Feral and Pest Animals Procedure KCGM-ENV-082-PRO Land Disturbance Procedure NSR-ENV-001-PRO Internal Disturbance Permit Forms required prior to any clearing.
Pogo Production Centre	Pogo Operations	Goodpaster River – breeding ground for Chinook Salmon / King Salmon (<i>Oncorhynchus tshawytscha</i>) Federal and state laws protect both migratory and non-migratory species in Alaska. Most birds in Alaska fall under the <i>Migratory Bird Treaty Act (MBTA)</i> , which makes it illegal to injure, capture, or kill migratory birds or to interfere with their nests when active.	Within and outside proposed disturbance areas	<ul style="list-style-type: none"> Monitoring of water quality upstream and downstream of our operations. Management practices are outlined in Pogo's Fish Resources Permits and Fish Habitat Permits. Bird nesting surveys prior to clearing. Management practices established in the Migratory Bird Treaty Act. Weed management practices follow guidelines established in Alaska Department of Natural Resources (ADNR) Strategic Plan for Invasive Weed and Agricultural Management and Prevention in Alaska. Monitoring of wildlife interactions with the surface waste disposal facilities as per the Mine Plan of Operation Approval issued by ADNR.
Other	Tanami	Landforms and habitats including: <ul style="list-style-type: none"> South-west Tanami Desert Gardiner Range Tanami Range Browns Range Birrindudu Range Central Tanami Paleodrainage Depression Central Tanami Remnant Mulga <i>Bilby (Macrotis lagotis)</i> (VU) <i>Brush-tailed Mulgara (Dasyercus blythi)</i> (LC) <i>Northern Nailtail Wallaby (Onychogalea unguifera)</i> (LC) <i>Spectacled Hare-wallaby (Lagorchestes conspicillatus)</i> <i>Acacia abbreviate Maslin</i> (NTh) <i>Cleome uncifera ssp. Microphylla</i> (NTh) <i>Heliotropium sphaericum</i> (NTh) <i>Heliotropium subreniforme</i> (DD) <i>Hibiscus brachychaenus</i> (NTh) <i>Jacksonia aculeate</i> (DD) <i>Sauropus trachyspermus</i> (NTh)	Potentially within proposed future disturbance areas (no disturbance in FY24)	<ul style="list-style-type: none"> Sites are currently in care and maintenance. Biodiversity Management Plan (Northern Territory). Support of Tanami Regional Biodiversity Monitoring Project, contributing to knowledge of the biodiversity values and better management practices. Wildlife Management Plans for species of conservation significance. Internal Disturbance Permits are required prior to any clearing.

Notes:

P1 - Poorly known species; species known from one or a few locations (generally five or less) which are potentially at risk
 P2 - Poorly known species; species known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation and other land with secure tenure being managed for conservation.
 P3 - Poorly known species; species known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining area of apparently suitable habitat much of it not under imminent threat.
 P4 - Rare, near threatened or other species in need of monitoring
 EPBC Vulnerable - facing a high risk of extinction in the wild in the medium-term future
 NTh - near threatened
 DD - Data deficient

NE - Not Evaluated IUCN Red List Assessment
 DDi - Data Deficient IUCN Red List Assessment
 LC - Least Concern IUCN Red List Assessment
 NT - Near Threatened IUCN Red List Assessment
 VU - Vulnerable IUCN Red List Assessment
 EN - Endangered IUCN Red List Assessment
 CR - Critically Endangered IUCN Red List Assessment
 EW - Extinct in the Wild IUCN Red List Assessment
 EX - Extinct IUCN Red List Assessment