## Site: 23-2-3 Talipata/Mount Liebig

**Level of significance:** national

**Location:** 23º 22' S 131º 28' E; Far western Macdonnell Range ca. 60 km west of Papunya.

**Area:** 262 km$^2$ **Map sheet:** Mount Liebig SF 52-26

**Bioregions:** MacDonnell Ranges (MAC 99.4%) & Great Sandy Desert (GSD 0.6%)

**Tenure:** Freehold - Haasts Bluff Aboriginal Land Trust (100% of site)

**Description:** This site includes outlying mountain areas of Heavitree quartzite in the far west of the Macdonnell Ranges bioregion. The site consists of two discrete polygons, the boundaries of which incorporate Mount Palmer, Mount Crawford and Mount Liebig and the intervening plains and run-on areas. These ranges rise to over 1000 m ASL, which at some points are up to 500 m above the surrounding plains.

**Notes:** Talipata gorge has permanent springs and waterholes and these support many restricted plant taxa and highly disjunct, small populations of several mesic species. The site includes the type location for *Nephrolepis arida* and *Goodenia faucium.*

**Criteria satisfied:** A1 a i), A1 b i), A1 c i), A2 e i) , B1 b1 i)

**Taxa of Australian significance:** *Callistemon pauciflorus* {3RC- [N]}, *Goodenia faucium* {2R [NSEW] endemic to/only known from this site}, *Hakea grammatophylla* {3RC- [W]}, *Nephrolepis arida* {3KC- only known in study area from this site}, *Neurachne tenuifolia* {3RCa [NW]}, *Pluchea A87409 Ormiston* {3K [NW]}, *Scaevola graminea* {3R [SW] only known in MAC from this site}, *Schoenus centralis* {3K only known in MAC from this site}, *Teucrium grandiusculum subsp. grandiusculum* {3KC- [N]}

**Taxa of NT significance:** *Corchorus walcottii* {3k}, *Glycine clandestina* s.lat. {3rC-}, *Hibbertia glaberrima* {3rCa}, *Histiopteris incisa* {3rC-}, *Juncus continuus* {3rC-}, *Monotaxis luteiflora* {3r}, *Scaevola humilis* {3k only known in NT from this site}, *Swainsona disjuncta* {3k only known in MAC from this site}, *Triumfetta johnstonii* {3k only known in MAC from this site}, *Triumfetta maconochieana* {3k only known in MAC from this site}

**Taxa of Southern NT (study area) significance:** *Adiantum hispidulum var. hispidulum* {(disjunct)}, *Lindsaea ensifolia subsp. ensifolia* {(rare)}, *Triumfetta micracantha* {(apparently rare) [S] only known in MAC from this site}

**Taxa of bioregional significance:** *Acacia minutifolia* {MAC (disjunct )}, *Acacia strongylophylla* {MAC (northern range limit)} *Baeckea polystemonea* {MAC (northern range limit) [N]}, *Gompholobium polyzygum* {MAC (disjunct)}, *Paratephrosia lanata* {MAC (southern range limit) [S]}, *Prostanthera sericea* {MAC (northern range limit) [N]}, *Stackhousia A90542 Mt Liebig* {MAC (apparently rare) only known in MAC from this site}, *Trema tomentosa var. viridis* {MAC (disjunct)}, *Vittadinia virgata* {MAC (southern range limit) [S] only known in MAC from this site}

**Other taxa only known in MAC bioregion from this site:** *Acacia inaequilatera*, *Diplopeltis stuartii var. stuartii*, *Grevillea eriostachya*, *Heliotropium glabellum*, *Hibiscus leptocladus*, *Hibiscus sturtii var. platychlamys*, *Indigofera monophylla*, *Tribulus macrocarpus*

**Type locations of the following were collected from the site:** *Goodenia faucium* (1957), *Nephrolepis arida* (1984)

**Botanically Significant Waterholes at the site:** Talipata Springs

**Vegetation Map Units** (mapped as occurring at the site on the 1:1000,000 NT Vegetation Survey Map):

Map unit 65 (10 %): *Acacia aneura* (Mulga) tall open-shrubland with *Eragrostis eriopoda* (Woolybutt) open-grassland understorey.

Map unit 59 (17 %): *Acacia estrophiolata* (Ironwood), *Atalaya hemiglauca* (Whitewood) low open-woodland with open-grassland understorey.

Map unit 71 (3 %): *Acacia aneura* (Mulga) tall sparse-shrubland with grassland understorey.

Map unit 43 (68 %): *Eucalyptus* low open-woodland and/or *Acacia* sparse-shrubland with *Triodia spicata* (Spike Flower Spinifex), *Triodia pungens* (Soft Spinifex) hummock grassland understorey.