

Invertebrate Specimens from the Cooljarloo lease of Tiwest Joint Venture.

M. Bamford. 31/12/07

All specimens collected: 16-21 August 2006.

All specimens from vertebrate pitfall traps

Millipedes

***Antichiropus 'cooljarloo'* (Paradoxosomatidae)**

Report from Dr Mark Harvey (WA Museum): "This represents the first record of this new species, as it has not been found elsewhere. It is quite distinct from all other species of the genus with very distinctive gonopod morphology of the adult males."

Additional information (M. Bamford). Specimens were collected in banksia woodland adjacent to Dump 1, and at Falcon. The species was also found (but not collected) in monitoring transects near the North Mine. These were also in Banksia woodland. Thus, all specimens are from banksia woodland on sand, which is an extensive habitat in the region. That the species is undescribed probably reflects the lack of collection of millipedes in the region. However, it has not been recorded around Eneabba, where extensive invertebrate studies have been undertaken by Iluka, and it has not been recorded around Perth. It would therefore seem that the species is confined to Banksia woodlands on sand from somewhere north of Perth to somewhere south of Eneabba. It is potentially a short range endemic species but is very likely to occur outside the Tiwest Cooljarloo and Falcon leases.

lulomorphidae, an unidentifiable female and a member of the genus *Podykipus*.

Report from Dr Mark Harvey (WA Museum): "The single female specimen is unidentifiable to genus or species." The other specimen is in the genus *Podykipus*. "The genus *Podykipus* is restricted to south-western Australia, but the taxonomy is poorly resolved as many new species have been detected. The taxonomic status of this population [at Cooljarloo] is uncertain, and will remain so until a research project on the genus can be undertaken."

Additional information (M. Bamford). Both specimens came from Banksia woodland at Falcon and the WA Museum report indicates that lack of information makes identification impossible. It is most likely that both specimens represent a single, undescribed member of the genus *Podykipus*. Because of taxonomic uncertainty, this may be the same species of *Podykipus* found elsewhere in the South-West, or may be a short range endemic species restricted to Banksia woodlands in the Cooljarloo region.

Spiders

***Eucyrtops* sp. (Idiopidae)**

Report from Dr Mark Harvey (WA Museum). "An undescribed species that is moderately widespread in the south-west."

Implications. As a widespread, albeit undescribed species, this record is not significant.

Scorpions

***Cercophonius* sp. (Bothriuridae)**

Report from Dr Mark Harvey (WA Museum). "It is not possible to accurately identify this specimen due to uncertainties in the taxonomy of the genus, but it is not likely to represent a short-range endemic species."

Implications. Although of uncertain taxonomy, the conclusion from the WA Museum that the species is widespread means that it is of low conservation significance.