

## Terrestrial Isopod Report – Yalgoo Troglafauna

Three species of terrestrial isopod were recognised from the Yalgoo troglafauna specimens.

Two of these are likely SREs and one a potential SRE. A brief assessment of these morphospecies follows. Four vials from a previous survey were re-examined. The data for ISTN537 (SJ5454) and ISTN540 (SJ5455) are included in the datasheet that accompanies this report. Vials ISTN530 (YRC9, 13/10/2018) and ISTN534 (YRC12, 14/10/2018) did not contain any specimens.

### Family Armadillidae

*Troglarmadillo* sp. indet.

This genus contains very small, troglobitic Armadillidae. This single male specimen (Bore YORC71) is a true troglobitic specimen. *Troglarmadillo* are known from various locations in the northern half of Western Australia and I consider them all to be SRE species. This is a likely SRE species.

### Family Philosciidae

*Unknown genus, sp. indet.*

Most of the specimens collected (including those in 2017) were this species. The taxonomy of the Philosciidae in WA is largely unknown, but this appears to be a different genus to the Philosciidae normally found in epigean habitats. The species is not truly troglobitic, it has well developed eyes and some pigmentation. It is elongated however, and in my opinion, is probably at least partly subterranean. This species is a potential SRE. It was collected at Bore YORC128 in 2017 and 2019, at Bore YRC02 in 2017 and Bore at DDINF4 in 2019.

### Family Paraplatyarthridae

*Paraplatyarthrus?* sp. indet.

Two specimens of an unknown Paraplatyarthridae were collected at Bore YORC77 and Bore YRC4. This species has reduced eyes and a lack of pigmentation but is not fully troglobitic. All Western Australian Paraplatyarthridae are at least partially subterranean and I consider them all to be likely SRE species.

**Simon Judd 14/02/2020**