

Targeted Assessment for *Idiosoma sigillatum* for the Peel Health Campus Upgrade.



Report by *Invertebrate Solutions Pty Ltd*
for Department of Finance on behalf of
Emerge Associates Pty Ltd

May 2025

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Prepared for: Department of Finance, on behalf of Emerge Associates Pty Ltd

Frontispiece: Adult male of the Perth Shield Backed Trapdoor spider (*Idiosoma sigillatum*).

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Executive Summary

Peel Health Campus, 110 Lakes Road in Greenfields. The NVCP for the expansion has been subject to the requirement by the Department of Water Environment Regulation (DWER) to conduct a targeted invertebrate fauna survey, specifically for the mygalomorph spider *Idiosoma sigillatum*.

The NVCP (survey area) was comprehensively searched on 24th May 2025. No burrows of *Idiosoma sigillatum*., either active, or inactive were observed within the survey area.

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1. Introduction

The Department of Finance (DOF) is managing upgrades to the Peel Health Campus, 110 Lakes Road in Greenfields (the Project). The DOF has engaged Emerge Associates (Emerge) to undertake various environmental studies for the Project including a Native Vegetation Clearing Permit (NVCP) for the Project. The NVCP has been subject to the requirement by the Department of Water Environment Regulation (DWER) to conduct a targeted invertebrate survey for the mygalomorph spider *Idiosoma sigillatum*. The mygalomorph spider *Idiosoma sigillatum* is a Priority 3 species that is considered to be poorly known (DBCA 2024).

1.1 Scope of Works

Emerge on behalf of the Department of Finance requested Invertebrate Solutions Pty Ltd (Invertebrate Solutions) undertake a targeted search for *Idiosoma sigillatum* within the NVCP application area.

1.2 Project area

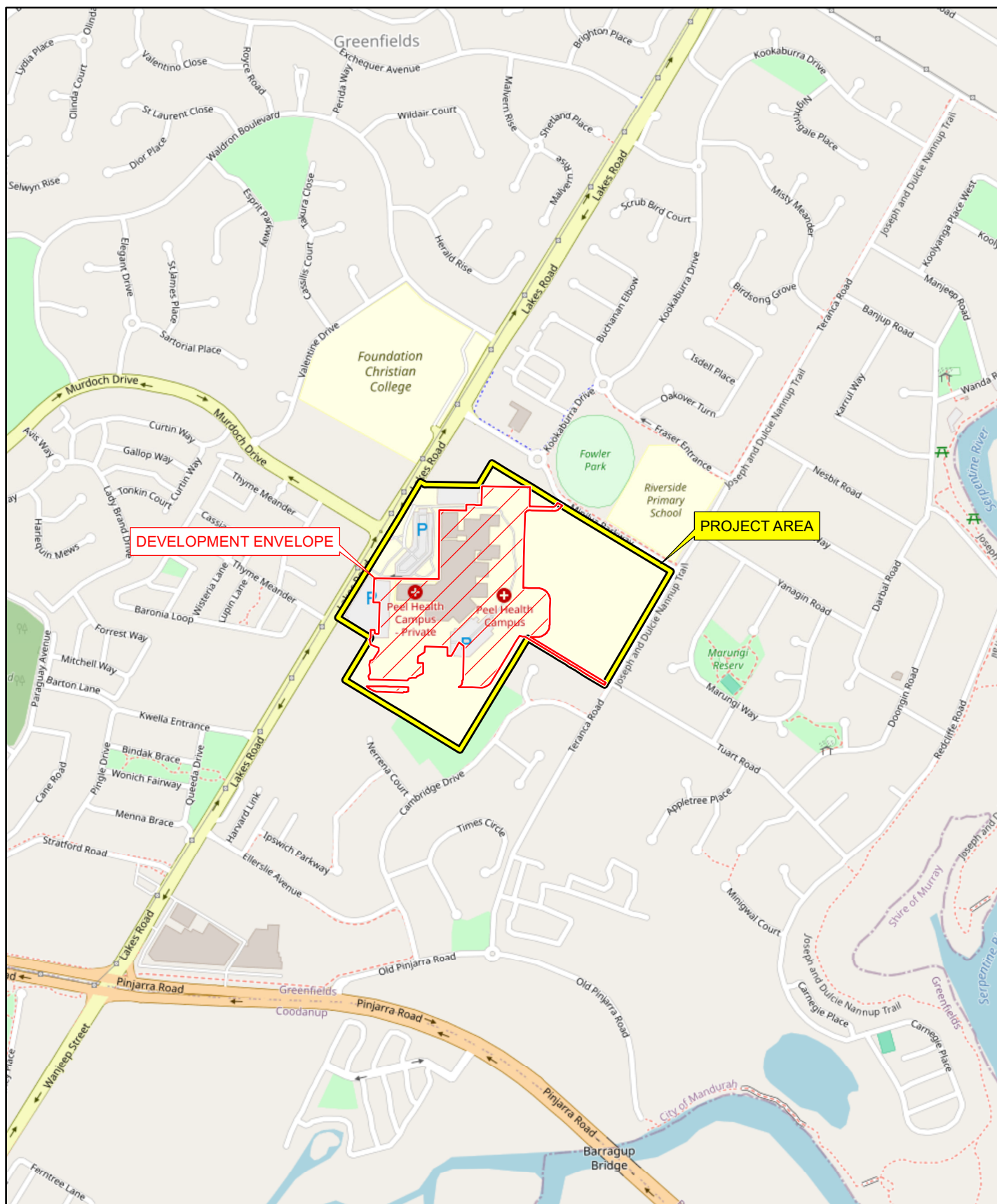
The Project area is the Peel Health Campus located in Mandurah on Lakes Rd and is shown in Figure 1. The survey area encompasses the full extent of the native vegetation clearing permit area.

1.3 Survey Effort, Timing and Staff

Invertebrate Solutions completed the survey of the Shield Backed Trapdoor spiders and the targeted search of the Project Area on 22nd May 2025.

Field sampling for invertebrates was undertaken by experienced ecologists and comprised of:

- Dr Timothy Moulds *BSc (Hons) Geol., PhD. Invert. Ecol.*
- Mr Jack Livsey *BSc (Hons) Env. Geog.*



Legend

- Project Area
- Development Envelope

0 75 150 300 N
m
Scale: 1:10,000 @ A4

-NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

LOCALITY MAP



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HORIZONTAL DATUM & PROJECTION GDA2020 MGA Zone 50
DATE 29/05/2025

PROJECT Peel Health Campus Targeted *Idiosoma sigillatum* Search
CREATED ENVIRONMAPS
CHECKED TM
APPROVED TM
REVISION 0

Department of Finance

Figure 1
Project Location

1.4 Report Limitations and Exclusions

This survey was limited to the written scope provided to the client by Invertebrate Solutions (30th April 2025) and in Section 1.1. This survey was limited to the extent of information made available to Invertebrate Solutions at the time of undertaking the work. Information not made available to this survey, or which subsequently becomes available may alter the conclusions made herein. The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. Invertebrate Solutions has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by Invertebrate Solutions described in this report (this section and throughout this report). Invertebrate Solutions disclaims liability arising from any of the assumptions being incorrect.

Invertebrate Solutions has prepared this report on the basis of information provided by Department of Finance, Emerge Associates Pty Ltd, and others (including Government authorities), which Invertebrate Solutions has not independently verified or checked beyond the agreed scope of work. Invertebrate Solutions does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

1.5 Field Sampling Limitations

Invertebrate Solutions notes the following field sampling limitations in the writing of this report and its subsequent conclusions:

- Field sampling for any site is never exhaustive and Invertebrate Solutions makes no warrant that burrows of *Idiosoma sigillatum* remain to be documented within the defined survey area shown in Figure 1.

2. Methods

The desktop assessment and field survey program were undertaken with regard to Technical Guidance Sampling of short range endemic invertebrate fauna (EPA 2016).

2.1 Targeted Survey

Invertebrate Solutions staff undertook a targeted field assessment of the proposed clearing area including a grid search of all vegetated areas for the distinctive burrows of *Idiosoma sigillatum*. Each burrow, or burrow cluster was recorded by GPS in GDA2020 datum and the number of burrows recorded. *Idiosoma sigillatum* burrows are generally located in sandy soils within Banksia woodland and these areas were thoroughly searched.

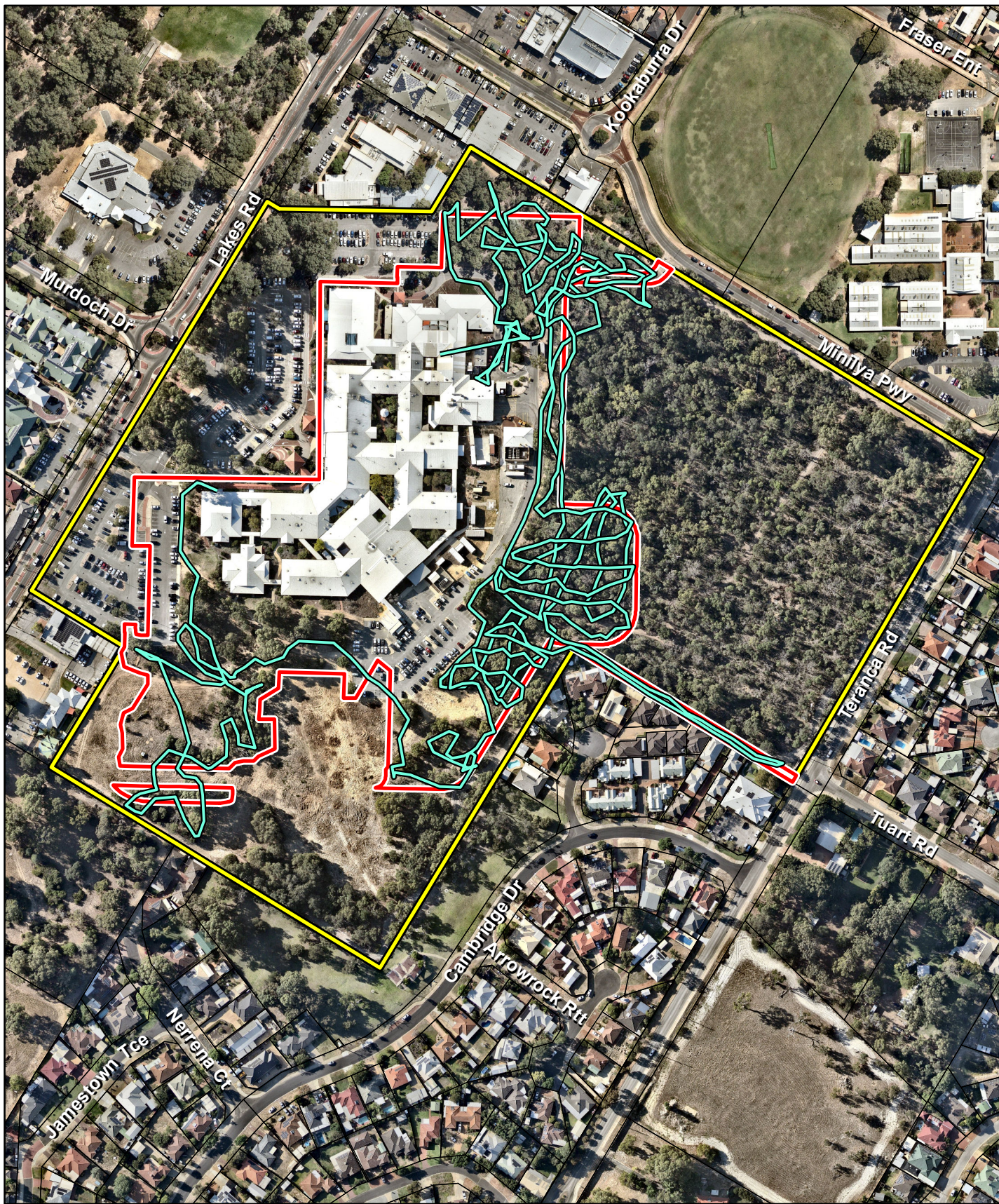
Potential burrows were examined with a Kentfaith HD endoscope to determine if they were occupied by a live individual of *Idiosoma sigillatum* or a different taxon.

The survey program was undertaken with regard to the Technical Guidance Sampling of short range endemic invertebrate fauna (EPA 2016).

3. Results

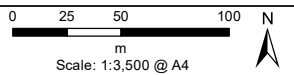
3.1 Targeted Search

The Project Area was comprehensively searched by Dr Timothy Moulds and Mr Jack Livsey (Invertebrate Solutions) during the field survey. No burrows, either active, or inactive were observed within the survey area Figure 1. The tracklog of areas searched is shown in Figure 2.



Legend

- Project Area
- Development Envelope
- Cadastre
- Search Tracklog



- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

LOCALITY MAP



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HORIZONTAL DATUM & PROJECTION
 GDA2020 MGA Zone 50

DATE
 29/05/2025

PROJECT
 Peel Health Campus Targeted *Idiosoma sigillatum* Search

CREATED	CHECKED	APPROVED	REVISION
ENVIRONMAPS	TM	TM	0

Department of Finance

Figure 2
 Targeted Search of
Idiosoma sigillatum

4. Discussion and Conclusions

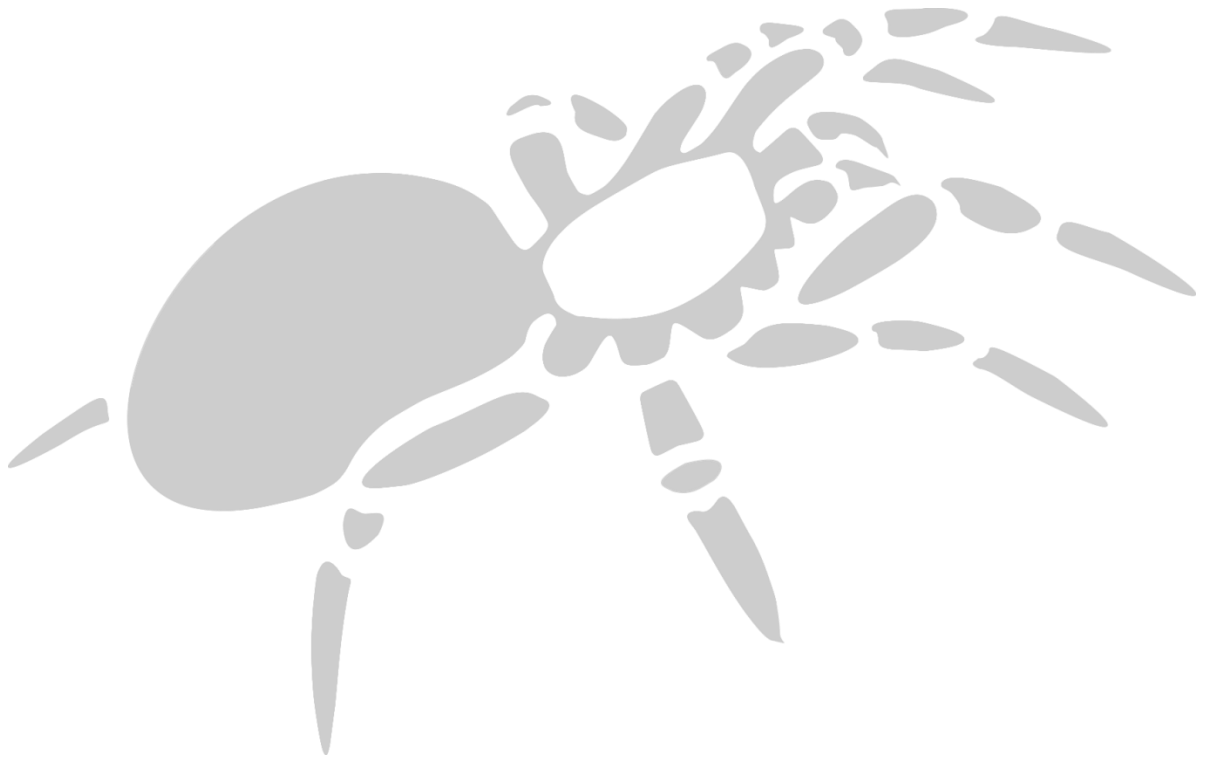
The results of the targeted survey for the Perth Shield Backed trapdoor spider (*Idiosoma sigillatum*) of the PHC Project area located no *Idiosoma sigillatum* burrows during the targeted search.

5. References

Department of Biodiversity, Conservation and Attractions (DBCA). (2024). Threatened and Priority Faun list October 2024. Accessed 12th May 2025 from:

<https://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-animals>

EPA (2016). Technical guidance. Sampling of short range endemic invertebrate fauna. Environmental Protection Authority: Perth. 35 pp.



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