

21 November 2025

Kellie Johnson

Project Officer (Waste Services)
City of Rockingham
PO Box 2142
Rockingham DC WA 6967



Phone +61 8 9202 6819
Mob +61 0 427 005 226
Email paul@pgv.net.au
Suite 3, 67 Howe Street
Osborne Park WA 6017
ABN 44 981 725 498
Knightside Nominees Pty Ltd

Dear Kellie,

RE: Millar Road Landfill Redevelopment –Tree Assessment Stage 1 and 2

Following is our assessment of trees in the Stage 1 and 2 area on the Millar Road Landfill site. The Stage 1 works have been completed and the proposed Stage 2 works include a new access road and formalising a staff carpark.

1 Methodology

Dr Paul van der Moezel of PGV Environmental undertook a vegetation assessment on 11 December 2023 and 8 July 2025. The assessment included recording any native vegetation (trees, shrubs, herbs) and assessing the native trees in the area.

The following information was recorded for each tree assessed:

- Species
- Location
- Height
- DBH (1.3m above ground)
- Tree health
- Presence of hollows

2 Site Description

The site contains some native trees, mostly standing alone and with a few in small clumps, as well as some non-native trees and shrubs. There were no native shrubs or herbs in the understorey. Therefore, the condition of the vegetation was rated as Completely Degraded.

3 Tree Assessment

A total of 71 trees were recorded in the two areas. Tree data are provided in Attachment 1.

Trees likely to be native to the site included:

- Marri (*Corymbia calophylla*) – 26 trees
- Tuart (*Eucalyptus gomphocephala*) – 23 trees
- Sheoak (*Allocasuarina fraseriana*) – 7 trees
- Jarrah (*Eucalyptus marginata*) – 7 trees

Trees likely not to be native to the site included:

- WA Peppermint (*Agonis flexuosa*) – 1 tree
- Red Ironbark (*Eucalyptus sideroxylon*) – 1 tree
- Eucalyptus sp – 1 tree

In addition, there were 5 Standing Dead Trees recorded in the area.

Photographs of all trees are shown in Attachment 2.

The location of all trees assessed is shown in Attachment 3.

About a third of the trees (24 of 71) were rated as healthy trees. Twenty-five trees were rated as unhealthy or in poor condition. Five trees were dead, one of which had only recently died.

Examples of healthy Tuart trees are shown in Plates 1 and 2.

Plate 1: Healthy Tuart (Tree 60)



Plate 2: Healthy Tuart (Tree 51)



Many of the trees in the area currently used as an informal staff parking area were in poor health or were dead. Examples of unhealthy trees in this area are shown in Plates 3 and 4.

Plate 3: Unhealthy Marri and Sheoak



Plate 4: Unhealthy Marris



4 Black Cockatoo Habitat Trees

According to the EPBC Act Referral Guidelines for three species of Black Cockatoos, any Marri, Jarrah or Tuart tree with a DBH >50cm has the potential to be a breeding habitat tree for Black Cockatoos either currently, if there is a suitable hollow, or in the future if there is no hollow.

A total of 28 trees were recorded with a DBH of 50cm or greater. The species recorded were:

- Tuart – 16 trees
- Marri – 10 trees
- Jarrah – 2 trees

Most (25) of the trees did not have any hollows. Two trees had small hollows and one tree (Tree 24) contained a large vertical hollow that is highly likely to be hollow through to the base of the tree and therefore not be suitable for a breeding hollow for cockatoos (Plate 4).

All Marri, Jarrah, Tuart and Sheoak trees provide foraging habitat for Black Cockatoos. There are also some Standing Dead Trees (Plate 5).

Plate 4: Large Vertical Hollow on Tree 24.



Plate 5: Standing Dead Sheoak



5 Clearing Permit

A clearing permit is required under the State *Environmental Protection Act 1986* (EP Act) to clear native vegetation unless an exemption applies through Schedule 6 of the EP Act or the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*. Clearing for the proposed works does not appear to qualify for an exemption.

The Stage 1 clearing has been undertaken under Clearing Permit CPS 10485-1 which was granted on 18 June 2024. The clearing permit is valid until 12 July 2029.

The proposed Stage 2 works will result in the clearing of four trees in total, including one Jarrah sapling (Tree 55), one dead *Allocasuarina fraseriana* (SDT), a small Tuart (Tree 58) and one significant tree, a Marri that is infested with termites (Tree 38), as shown in Figure 1. The total amount of additional clearing is 160m².

It may be possible to amend CPS 10485-1 to include the Stage 2 area given the location of clearing is in the same location and the amount of clearing is very small (approximately 160m²).

6 EPBC Act Referral Guidelines

The Marri, Tuart, Jarrah and Sheoak trees on the site provide foraging habitat for Carnaby's Black Cockatoos and Forest Red-tailed Black Cockatoos while four Tuart trees provide potential breeding habitat. Evidence of Black Cockatoo foraging has previously been observed on a Marri tree on the site.

Carnaby's Black Cockatoos and Forest Red-tailed Black Cockatoos are listed as Matters of National Environmental Significance (MNES) under the Commonwealth *Environment Protection and Biodiversity Conservation Act 2000* (EPBC Act). A significant impact on MNES must be referred to the

Commonwealth environment department (DCCEEW) to determine whether the proposed impact needs to be fully assessed or not.

The referral guidelines for Black Cockatoos (Referral Guideline for 3 WA Threatened Black Cockatoo Species, 2022) provides guidance on whether the potential for a significant impact to occur. The statutory document to determine the level of impact is the *Significant Impact Guidelines 1.1*.

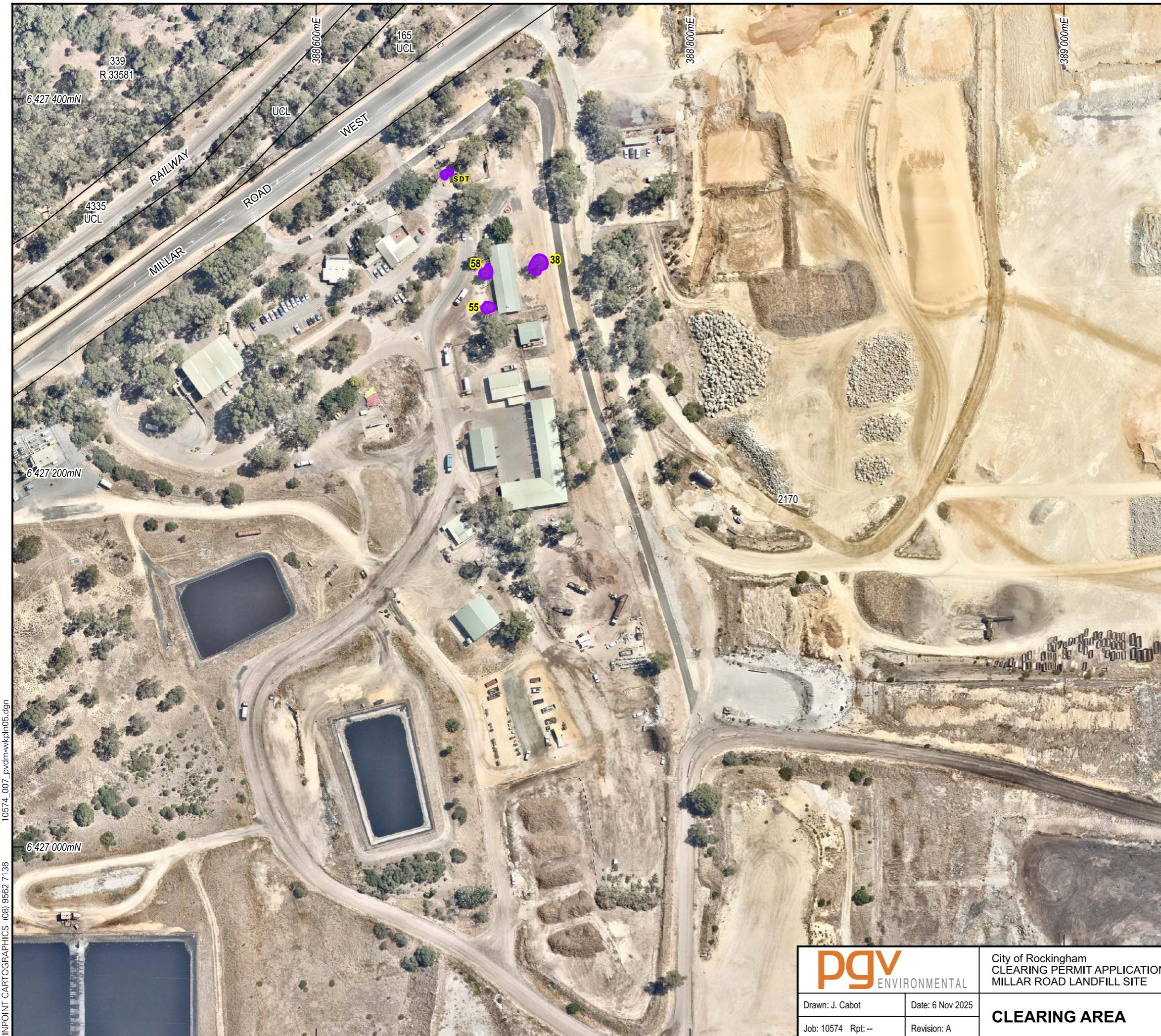
According to the Referral Guidelines the clearing of more than 1ha of quality foraging habitat could lead to a significant impact on Black Cockatoos and a Referral is recommended. The amount of foraging habitat proposed to be cleared (4 trees) is 160m² (0.016ha) which is well under the 1ha threshold.

Also, according to the Referral Guidelines the clearing of more than one breeding habitat tree could lead to a significant impact on Black Cockatoos and a Referral is recommended. There is one potential breeding habitat tree proposed to be cleared, however the tree is significantly impacted by termites. In accordance with the *Significant Impact Guidelines 1.1* the clearing of the one tree and a very small amount of foraging habitat is unlikely to lead to a significant impact and a referral should not be required.

7 Conclusion

The assessment of the vegetation in the Stage 2 area proposed for redevelopment on the Millar Road Landfill site in 2025 resulted in the following findings:

- No intact native vegetation occurs on the site;
- A total of 28 native trees occur in the area of which 4 are proposed to be cleared including a small Jarrah, a Sheoak and two small Tuarts;
- A large number of the trees were in unhealthy or poor condition;
- The native trees provide foraging habitat for Carnaby's and Forest Red-tailed Black Cockatoos. The total amount of clearing in Stage 2 is 0.016ha;
- Four Tuart trees were recorded which are defined as potential Black Cockatoo breeding habitat trees. None of the trees contain a hollow suitable for Black Cockatoo breeding and none are proposed to be cleared;
- A clearing permit will be required under the EP Act. The clearing of the four trees could be added to the current clearing permit CPS 10485-1 which was granted for the Stage 1 works and is valid until 2029;
- The clearing will be of one Jarrah sapling (Tree 55), one Standing Dead Tre that was *Allocasuarina fraseriana* (SDT), a small Tuart (Tree 58) and one significant tree, a Marri that is infested with termites (Tree 38); and
- The clearing is not likely to require referral under the Commonwealth EPBC Act.



City of Rockingham
CLEARING PERMIT APPLICATION
MILLAR ROAD LANDFILL SITE

Drawn: J. Cabot
Date: 6 Nov 2025
Job: 10574 Rpt: --
Revision: A

CLEARING AREA

| Tree # | Species | Easting | Northing | Height (m) | Diameter (cm) | 2nd Branch (cm) | 3rd Branch (cm) | Comments |
|--------|---------|---------|----------|------------|---------------|-----------------|-----------------|---|
| 1 | Jarrah | 388720 | 6427415 | 11 | 59 | | | poor tree, no hollows |
| 2 | Jarrah | 388710 | 6427409 | 11 | 41 | | | healthy small tree, no hollows |
| 3 | Jarrah | 388702 | 6427398 | 12 | 57 | | | average tree, no hollows |
| 4 | Jarrah | 388701 | 6427394 | 12 | 40 | | | average tree, no hollows |
| 5 | Marri | 388726 | 6427364 | 20 | 61 | | | healthy tree, no hollows |
| 6 | Tuart | 388735 | 6427349 | 25 | 73 | 70 | | healthy tree, no hollows |
| 7 | Tuart | 388736 | 6427341 | 13 | 37 | | | healthy tree, no hollows |
| 8 | Marri | 388743 | 6427275 | 22 | 59 | | | upright tree, some dead branches, no hollows |
| 9 | Marri | 388749 | 6427259 | 19 | 61 | | | healthy tree, no hollows |
| 10 | Marri | 388762 | 6427228 | 18 | 37 | | | one sided tree, poor condition, no hollows |
| 11 | Marri | 388757 | 6427226 | 9 | 35 | | | one sided tree, poor condition, no hollows |
| 12 | Marri | 388751 | 6427226 | 12 | 43 | | | poor tree, no hollows |
| 13 | Marri | 388767 | 6427219 | 15 | 52 | | | poor tree, no hollows |
| 14 | Marri | 388766 | 6427219 | 12 | 42 | | | poor tree, no hollows |
| 15 | Marri | 388763 | 6427211 | 17 | 58 | | | average tree, no hollows |
| 16 | Jarrah | 388754 | 6427213 | 12 | 49 | | | average tree, no hollows |
| 17 | Marri | 388732 | 6427220 | 16 | 87 | | | average tree, dead branches, no hollows |
| 18 | Marri | 388730 | 6427225 | 17 | 53 | | | chlorotic tree, poor condition, no hollows |
| 19 | Marri | 388735 | 6427204 | 18 | 40 | | | very poor, dead branches, no hollows |
| 20 | Marri | 388741 | 6427199 | 16 | 35 | | | very poor, dead branches, no hollows |
| 21 | Marri | 388738 | 6427208 | 14 | 31 | | | poor tree, no hollows |
| 22 | Tuart | 388744 | 6427195 | 22 | 61 | 57 | | dead top, poor health, no hollows |
| 23 | Tuart | 388735 | 6427167 | 21 | 103 | | | average tree, dead branches, no hollows |
| 24 | Tuart | 388714 | 6427163 | 25 | 138 | | | large vertical hollow, probably no base. Old tree |
| 25 | Tuart | 388710 | 6427171 | 18 | 40 | | | healthy tree, no hollows |
| 26 | Tuart | 388707 | 6427164 | 18 | 52 | | | poor tree, dead top, no hollows |
| 27 | Tuart | 388703 | 6427166 | 18 | 52 | 27 | | poor tree, leaning, no hollows |
| 28 | Tuart | 388692 | 6427151 | 22 | 164 | | | Very old tree, has been pruned top branches, small hollows, spout |
| 29 | Marri | 388689 | 6427173 | 18 | 60 | | | healthy tree, no hollows, foraging by Fores Red-tails |
| 30 | Tuart | 388695 | 6427173 | 19 | 46 | | | average tree, leaning, no hollows |
| 31 | Tuart | 388705 | 6427114 | 20 | 74 | 61 | 30 | average tree, no hollows |
| 32 | Tuart | 388716 | 6427133 | 12 | 124 | | | Dead main trunk, small hollows |
| 33 | Tuart | 388782 | 6427095 | 19 | 99 | | | average tree, no hollows |
| 34 | Tuart | 388805 | 6427024 | 18 | 51 | | | healthy tree, no hollows |
| 35 | Tuart | 388807 | 6427023 | 15 | 45 | | | healthy tree, no hollows |
| 36 | Marri | 388807 | 6427005 | 15 | 38 | | | average tree, no hollows |
| 37 | Tuart | 388790 | 6426921 | 21 | 86 | | | average tree, dead branches no hollows |
| 38 | Marri | 388718 | 6427305 | 14 | 93 | | | poor health, no hollows |
| 39 | Sheoak | 388659 | 6427371 | 10 | 45 | | | average tree, no hollows |
| 40 | Marri | 388667 | 6427374 | 15 | 51 | | | poor health, no hollows |

| Tree # | Species | Easting | Northing | Photo | Height (m) | Diameter (cm) |
|--------|------------------------|---------|----------|--------|------------|---------------|
| 41 | Sheoak | 388672 | 6427323 | 12.29 | 7 | 62 |
| 42 | Eucalyptus sideroxylon | 388669 | 6427313 | 12.31 | 18 | 64 |
| 43 | Eucalyptus sp. | 388652 | 6427286 | 12.33L | 10 | 17 |
| 44 | Marri | 388657 | 6427296 | 12.33R | 10 | 36 |
| 45 | Marri | 388652 | 6427294 | 12.35L | 6 | 22 |
| 46 | Sheoak | 388652 | 6427297 | 12.35R | 6 | 33 |
| 47 | Dead | 388639 | 6427288 | 12.37L | 20 | 67 |
| 48 | Marri | 388636 | 6427290 | 12.37R | 19 | 48 |
| 49 | Dead | 388645 | 6427283 | 12.49 | 14 | 33 |
| 50 | Marri | 388674 | 6427269 | 12:50 | 5 | 18 |
| 51 | Tuart | 388694 | 6427273 | 12.51 | 24 | 77 |
| 52 | Marri | 388706 | 6427279 | 12.52 | 6 | 20 |
| 53 | Marri | 388707 | 6427281 | 12.53 | 15 | 45 |
| 54 | Marri | 388695 | 6427285 | 12.56 | 12 | 42 |
| 55 | Jarrah | 388690 | 6427289 | 12.57 | 4 | 23 |
| 56 | Dead | 388691 | 6427300 | 12.57L | 7 | 34 |
| 57 | Dead | 388693 | 6427297 | 12.57R | 6 | 24 |
| 58 | Tuart | 388692 | 6427306 | 12.59 | 9 | 26 |
| 59 | Tuart | 388692 | 6427315 | 1:00 | 17 | 46 |
| 60 | Tuart | 388679 | 6427339 | 1.01 | 26 | 75 |
| 61 | Tuart | 388681 | 6427351 | 1.04L | 12 | 32 |
| 62 | Sheoak | 388684 | 6427350 | 1.04M | 12 | 37 |
| 63 | Sheoak | 388685 | 6427347 | 1.04R | 12 | 24 |
| 64 | Marri | 388679 | 6427363 | 1.08 | 9 | 25 |
| 65 | Tuart | 388680 | 6427369 | 1.08 | 22 | 75 |
| 66 | Sheoak | 388688 | 6427375 | 1:10 | 10 | 60 |
| 67 | Tuart | 388694 | 6427380 | 1.11 | 17 | 55 |
| 68 | Peppermint | 388700 | 6427385 | 1.12 | 7 | 25 |
| 69 | Dead | 388696 | 6427289 | 1.16 | 5 | 90 |
| 70 | Sheoak | 388663 | 6427196 | 1.19 | 10 | 65 |
| 71 | Jarrah | 388660 | 6427205 | | 9 | 48 |

Black Cockatoo Habitat Trees

| 2nd Branch (cm) | 3rd Branch (cm) | Comments |
|-----------------|-----------------|------------------------------|
| | | healthy, leaning |
| | | healthy |
| 16 | 15 | healthy |
| | | unhealthy, no hollows |
| | | unhealthy, no hollows |
| 15 | | unhealthy |
| | | Dead, no hollows |
| 32 | 31 | unhealthy, no hollows |
| | | recently dead |
| | | unhealthy, no hollows |
| | | healthy, no hollows |
| 15 | | unhealthy, no hollows |
| | | unhealthy, no hollows |
| | | healthy, leaning no hollows |
| | | unhealthy, no hollows |
| | | Dead, no hollows |
| | | Dead, no hollows |
| | | healthy, no hollows |
| | | healthy, no hollows |
| 73 | 67 | healthy, nice tree |
| | | healthy, no hollows |
| 35 | | healthy, no hollows |
| | | healthy, no hollows |
| | | unhealthy, no hollows |
| | | healthy, no hollows |
| | | healthy |
| | | unhealthy, no hollows |
| 24 | 18+ | healthy |
| | | Dead - good wood for salvage |
| | | healthy |
| | | unhealthy |

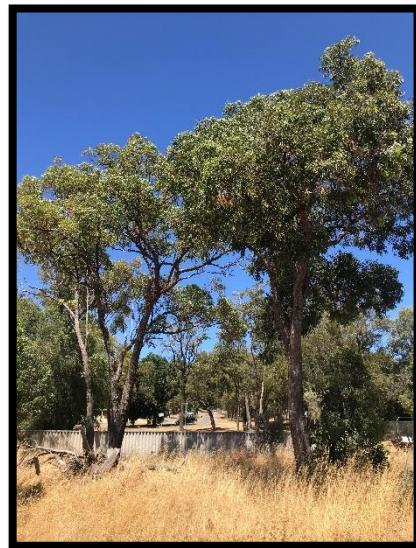
Tree 1



Tree 2 (right), 3 (middle) 4 (left)



Tree 4



Tree 5



Tree 6



Tree 7



Tree 8



Tree 9



Trees 10-16



Tree 17 (centre)

Tree 18

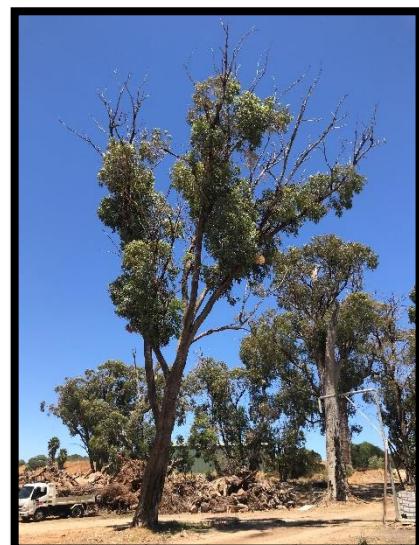
Tree 19 (Right), 20 (Left)



Tree 21

Tree 22

Tree 23



Tree 24



Tree 25



Tree 26 (Left), 27 (Right)



Tree 28



Tree 29



Tree 30



Tree 31



Tree 32



Tree 33



Tree 34 (Right), 35 (Left)



Tree 36



Tree 37



Tree 38



Tree 39



Tree 40



Tree 41



Tree 42



Tree 43 (Left) and 44 (Right)



Tree 45 (Left) and 46 (Right)



Tree 47 (Left) and 48 (Right)



Tree 49



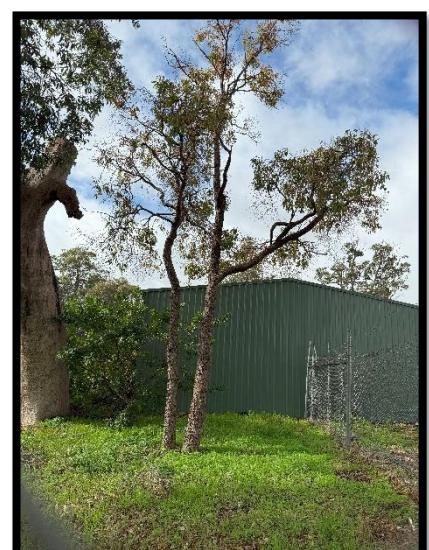
Tree 50



Tree 51



Tree 52



Tree 53



Tree 54



Tree 55



Tree 56 (Left) and 57 (Right)



Tree 58



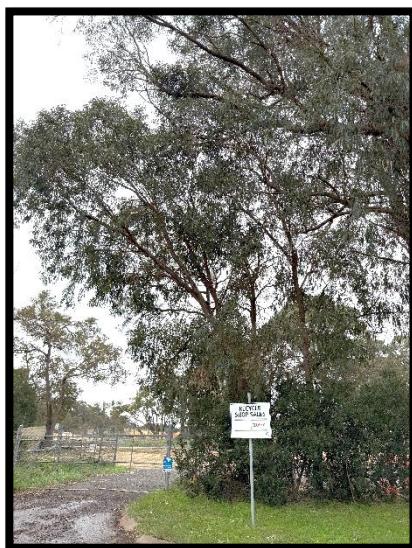
Tree 59



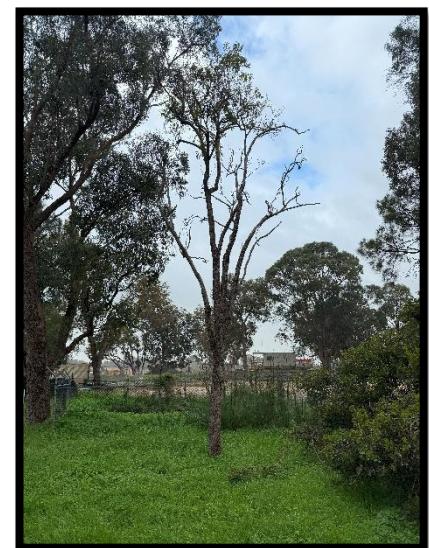
Tree 60



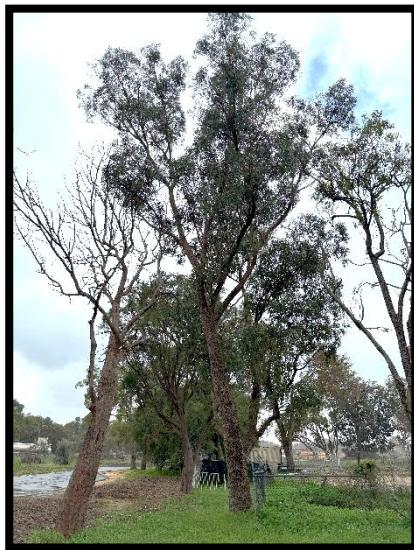
Tree 61 (Left), 62 (Middle) 63 (Right)



Tree 64



Tree 65



Tree 66



Tree 67



Tree 68



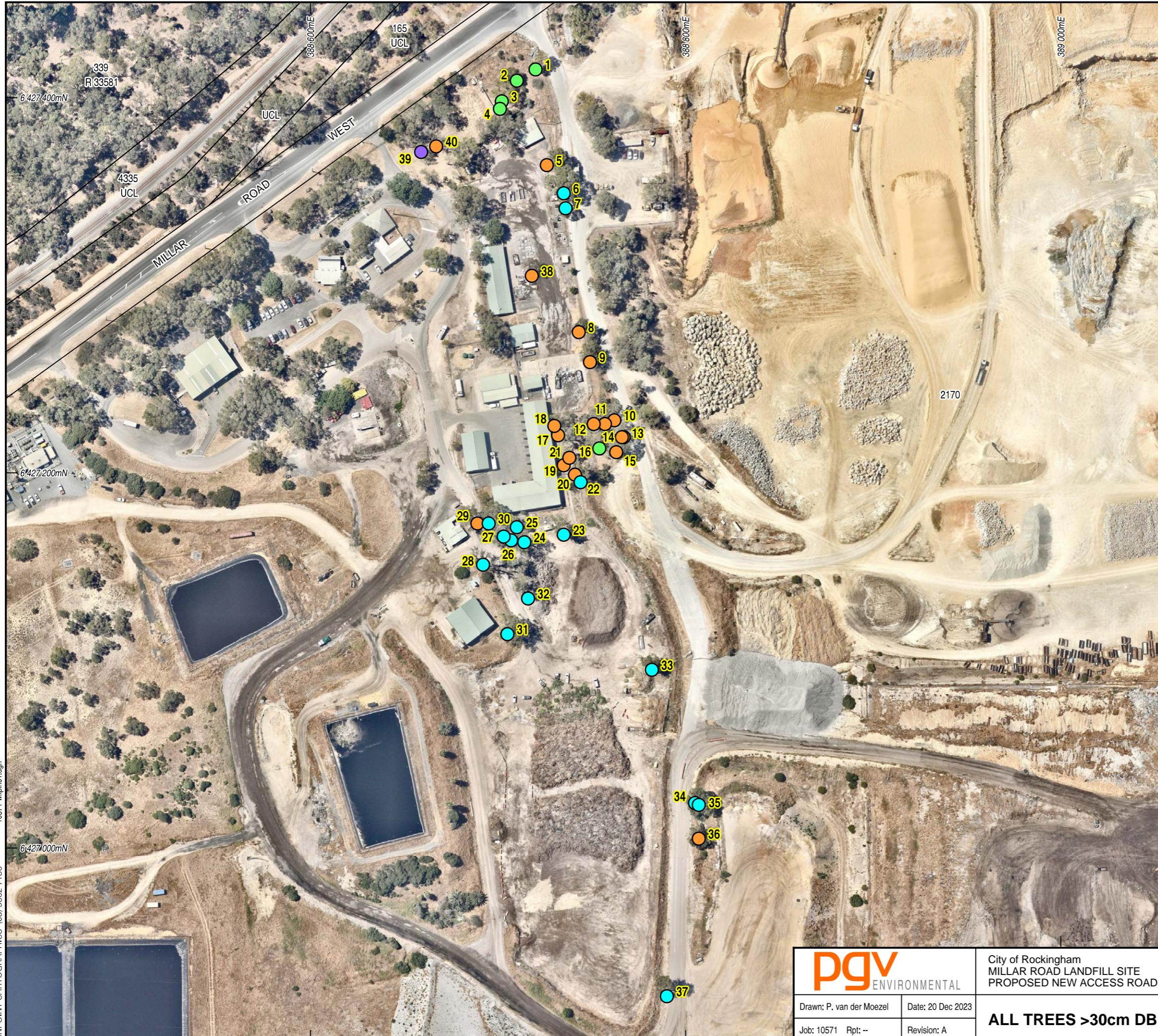
Tree 69



Tree 70



Tree 71 (no photo)



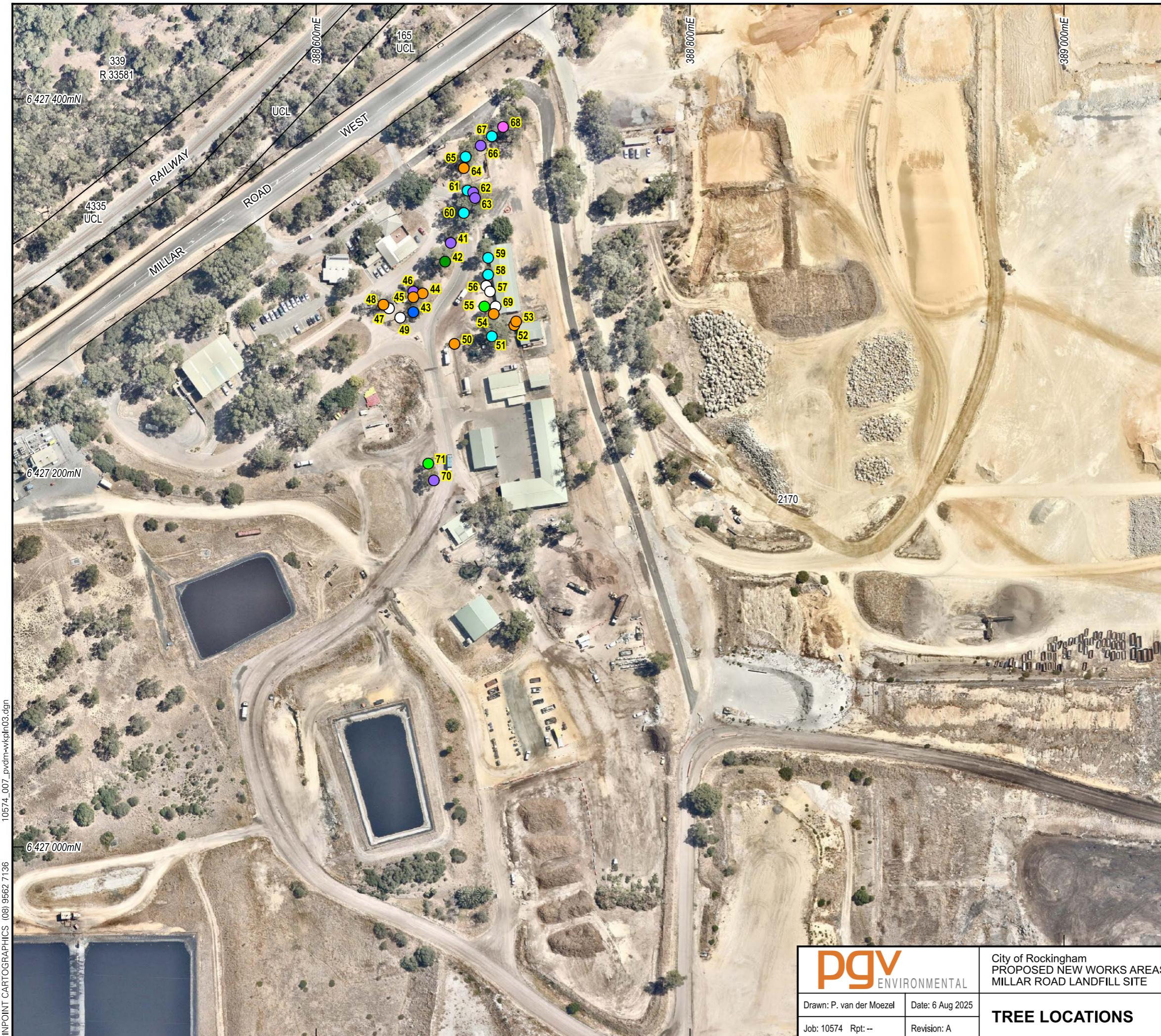
PGV
ENVIRONMENTAL

City of Rockingham
MILLAR ROAD LANDFILL SITE
PROPOSED NEW ACCESS ROAD

Drawn: P. van der Moezel Date: 20 Dec 2023

Job: 10571 Rpt: -- Revision: A

ALL TREES >30cm DBH



PGV
ENVIRONMENTAL

City of Rockingham
PROPOSED NEW WORKS AREAS
MILLAR ROAD LANDFILL SITE

Drawn: P. van der Moezel Date: 6 Aug 2025
Job: 10574 Rpt: -- Revision: A

TREE LOCATIONS

Workplan 3

Please contact me if you would like to discuss any aspects of this assessment.

Yours sincerely



Paul van der Moezel
Managing Director

Figure 1: Proposed Clearing

Attachment 1: Tree Data

Attachment 2: Tree Photographs

Attachment 3: Tree Locations