



## OBSERVATION ON VEGETATION AT HANRAHAN RD WASTE FACILITY



Figure 1

A site visit was made to the Hanrahan Road Waste Facility on the 13<sup>th</sup> and 19<sup>th</sup> February 2024 by Green Skills Inc to document the native and introduced flora within three sites. All three sites have had significant disturbance associated with the adjoining landfill site and have a wide range of environmental weeds present with limited native vegetation occurring.

Below is an outline for each site detailing the native vegetation and environmental weeds observed as of 19<sup>th</sup> February 2024.

## SITE 1



**Condition** – Completely Degraded

**Vegetation** – stand of large non-local Eucalyptus species with one small Paperbark tree (*Melaleuca preissiana*) in the northern point of the site. Understory is a mix of environmental weeds dominated by Kikuyu (over 90%) and annual grasses.

**Native flora:**

- *Melaleuca preissiana* Modong
- *Ficinia nodosa* Knotted Club Rush

**Introduced flora:**

- *Acacia longifolia* Sydney Golden Wattle
- *Zantedeschia aethiopica* Arum lily
- *Cortaderia selloana* Pampas Grass
- *Pennisetum clandestinum* Kikuyu
- *Watsonia* sp. Watsonia
- *Agapanthus praecox* Agapanthus
- *Cirsium* sp. Thistle



Photo 1: showing stand of non-local Eucalyptus trees and completely degraded understory in Site 1

## SITE 2



**Condition** – Completely Degraded

**Vegetation** – dense stand of large non-local Eucalyptus species with one small Paperbark tree (*Melaleuca preissiana*) and five mature Wonnich (*Callistachys lanceolata*) scattered within the site. Understory is a mix of environmental weeds dominated by Kikuyu (over 90%) and annual grasses and the mid-story is dominated by Taylorina (*Psoralea pinnata*) shrubs.

### **Native flora:**

- *Melaleuca preissiana* Modong
- *Callistachys lanceolata* Wonnich
- *Pteridium esculentum* Bracken fern

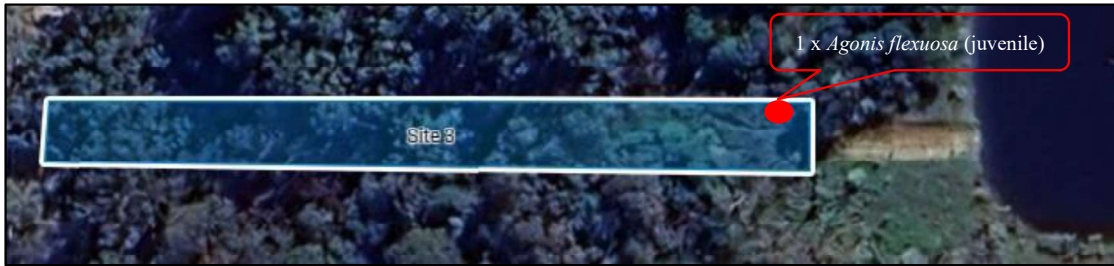
### **Introduced flora:**

- |                                  |                      |                              |              |
|----------------------------------|----------------------|------------------------------|--------------|
| • <i>Psoralea pinnata</i>        | <i>Taylorina</i>     | • <i>Cynodon dactylon</i>    | couch grass  |
| • <i>Zantedeschia aethiopica</i> | Arum lily            | • <i>Cortaderia selloana</i> | Pampas Grass |
| • <i>Pennisetum clandestinum</i> | Kikuyu               | • <i>Watsonia</i> sp.        | Watsonia     |
| • <i>Acacia longifolia</i>       | Sydney Golden Wattle |                              |              |



Photo 2: showing dense non-local Eucalyptus trees and Kikuyu understory in Site 2

### SITE 3



**Condition** – Degraded

**Vegetation** – Dense to scattered large non-local Eucalyptus species with one Paperbark tree (*Melaleuca preissiana*) and eight mature Wonnich shrubs (*Callistachys lanceolata*) scattered within the site. The understory is a mix of native rushes including Bare Twig rush (approx. 60%) & Knotted Club rush (approx. 10%) and environmental weeds including Kikuyu, annual grasses, and Blackberry. The mid-story comprises scattered Taylorina and large Sydney Golden Wattle shrubs. There is one small juvenile (2.5m high) WA Peppermint (*Agonis flexuosa*) located just within the site near the existing rock/concrete spillway.

**Native flora:**

<i>Agonis flexuosa</i>	WA Peppermint	<i>Machaerina juncea</i>	Bare Twig rush
<i>Melaleuca preissiana</i>	Modong	<i>Juncus pallidus</i>	Pale Rush
<i>Lobelia anceps</i>	Angled Lobelia	<i>Pteridium esculentum</i>	Bracken fern
<i>Hibbertia cuneiformis</i>	Cut leaf Hibbertia	<i>Ficinia nodosa</i>	Knotted Club rush
<i>Typha orientalis</i>	Bulrush		

**Introduced flora:**

<i>Acacia longifolia</i>	Sydney Golden Wattle	<i>Zantedeschia aethiopica</i>	Arum lily
<i>Psoralea pinnata</i>	Taylorina	<i>Cortaderia selloana</i>	Pampas Grass
<i>Rubus fruticosus</i>	Blackberry	<i>Pennisetum clandestinum</i>	Kikuyu
<i>Ulex europaeus</i>	Gorse	<i>Cynodon dactylon</i>	Couch grass
<i>Watsonia sp</i>	Watsonia	<i>Agapanthus praecox</i>	Agapanthus
<i>Cirsium sp.</i>	Thistle		



Photo 3: showing large Sydney Golden Wattle with non-local Eucalypts in the background in Site 3.

## **Conclusion**

- Sites 1 and 2 are in a Completely Degraded condition with minimal native vegetation.
- Site 3 was in a Degraded Condition although having a healthier population of understory rushes.
- Site 3 directly adjoins remnant vegetation (in Good Condition) with a large mature Marri (*Corymbia calophylla*) and WA Peppermint (*Agonis flexuosa*) trees.
- All three sites have stands of the non-local Eucalyptus trees which are from the original plantings and from self-seeding.
- No Priority or DRF flora were observed on the two site visits in February 2024.
- NO possum dreys observed in either native or introduced shrubs and trees.

## **References:**

- Florabase
- Flora Of the Southwest – Judy Wheeler, Neville Marchant and Margaret Lewington
- Southern Weeds and their Control – J. Moore
- Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment – EPA 2016