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2 July 2021

Alex Noble

Noble Hodge
PO Box 565
Claremont WA 6910

Dear Alex,

RE: Lot 126 Lawnbrook Road, Walliston – Targeted Flora Survey

Following is our targeted flora survey report for Lot 126 Lawnbrook Road, Walliston.

1 Background

Noble Hodge is proposing to subdivide Lot 126 Lawnbrook Road, Walliston (the site) into residential lots of around 1000-1100 m^2 in size. The site is 3.6325ha in size and is triangular-shaped with the broad end at the lower southern side (Plate 1).

The site was formally used for a telecommunication tower and associated buildings. The tower and buildings have been removed from the site. Vegetation remains on about 75% of the site.

Plate 1: Site Location

2 Scope of Work

PGV Environmental was commissioned by Noble Hodge to undertake a targeted flora survey of the site, with particular emphasis on searching for the Threatened species Wavy-leaved Smokebush (*Conospermum undulatum*), which was identified by the Department of Biodiversity, Conservation and Attractions (DBCA) as potentially occurring on the site in advice on the proposed subdivision.

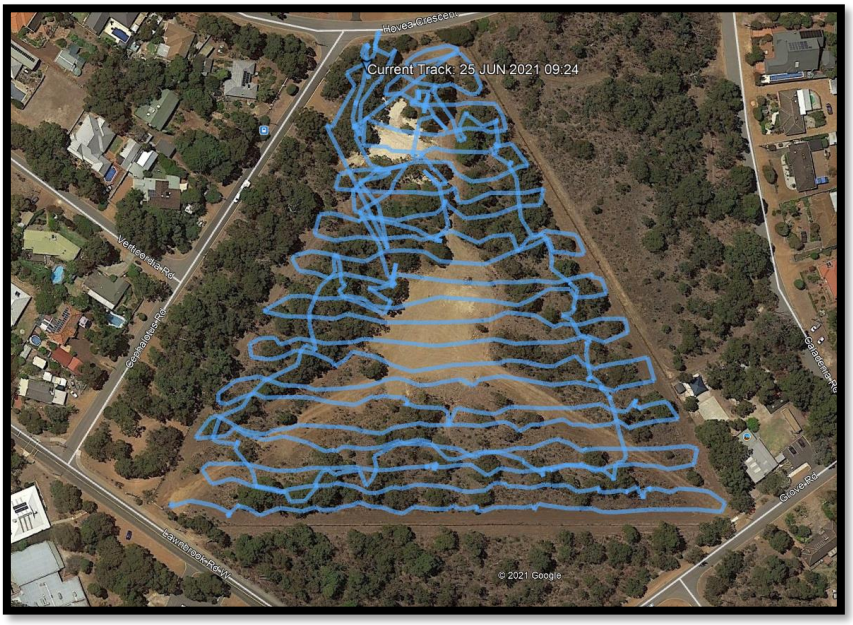
3 Survey Methodology

A targeted search for the Wavy-leaved Smokebush was undertaken by Dr Paul van der Moezel, an experienced senior botanist from PGV Environmental. *Conospermum undulatum* is a perennial shrub up to 1m high which is readily identifiable by an experienced botanist at any time of the year due to the distinctive wavy margins on the large bluish-grey leaves.

The search was conducted on 25 June 2021 and included walking parallel traverses from west to east at a spacing of 10m between the lines. The 10m spacing was considered appropriate given the open, low understorey throughout the site (Plate 3) and the ease of identifying *Conospermum undulatum* from a distance of 5m (5m either side of the walked traverse).

The track log of the survey is shown in Plate 2.

Plate 2: Track Log



4 Vegetation Description

The vegetation on the site was mostly a native Marri (*Corymbia calophylla*) and Sheoak (*Allocasuarina fraseriana*) Woodland with some Jarrah (*Eucalyptus marginata*) over a sparse mid-canopy of Parrot Bush (*Banksia sessilis*) and a low understorey with common native species including *Bossiaea ornata, Acacia pulchella, Bossiaea aquifolium, Scaevola calliptera* and *Babbingtonia camphorosmae* (Plate 3). The soils were lateritic sandy loam with some small boulders and gravel.

Plate 3: Typical Marri Woodland Vegetation on the site

The condition of the vegetation in the southern half was mostly Very Good to Excellent apart from the perimeter tracks and internal cleared areas from the previous activities.

The vegetation at the northern end was highly degraded with some exotic trees (Tasmanian Blue Gum and Spotted Gum) and abundant weeds such as Freesia, Watsonia, Oxalis, Geraldton Wax and Tree Lucerne (Plate 4).

Plate 4: Weedy northern part of the site

5 Flora Recorded

Although the survey was not a Reconnaissance or Detailed flora survey, PGV Environmental recorded plant species while walking the traverses. A total of 101 species were recorded, including 75 native

and 26 introduced (Attachment 1). The list is a provisional list of flora recorded opportunistically during the targeted Threatened species survey. Many more native species would be expected to be recorded in a spring survey.

6 Conservation Significant Flora

No plants of the Threatened species Wavy-leaved Smokebush (*Conospermum undulatum*) were recorded on the site.

Five other Threatened flora species were identified in a Naturemap search undertaken by PGV Environmental that have been recorded within a 5km radius of the site as follows:

- *Acacia anomala*
- *Acacia aphylla*
- *Anthocercis gracilis*
- *Darwinia apiculata*
- *Thelymitra stellata*

None of the species were observed during the survey. The first four species in the list would have been able to be identified during the survey had they occurred on the site. The fifth species, *Thelymitra stellata,* is an orchid which is only able to be identified when it is flowering which is late September to early October.

7 Conclusions

The targeted flora survey of Lot 126 Lawnbrook Road, Walliston did not record any plants of the Threatened species, Wavy-leaved Smokebush (*Conospermum undulatum*), or any other Threatened plant species.

Please contact me if you require any clarification of this report.

Yours sincerely

Paul van der Moezel
Managing Director

Attachment 1 – Species List (Provisional)

SPECIES LIST (Preliminary) – Lot 126
Lawnbrook Road, Walliston

GYMNOSPERMS

CYCADACEAE
Macrozamia riedlei

MONOCOTYLEDONS

ARECACEAE
**Phoenix dactylifera*

ASPARAGACEAE
**Asparagus asparagoides*
Chamaescilla corymbosa
Laxmannia squarrosa
Lomandra caespitosa
Lomandra micrantha
Lomandra nigricans
Lomandra preissii
Thysanotus dichotomus
Thysanotus patersonii
Thysanotus sparteus

COLCHICACEAE
Burchardia congesta

CYPERACEAE
Lepidosperma leptostachyum
Lepidosperma pubisquameum
Mesomelaena pseudostygia
Schoenus sp

HAEMODORACEAE
Anigozanthos manglesii
Conostylis sp
Haemodorum discolor
Haemodorum laxum

HEMEROCALLIDACEAE
Agrostocrinum scabrum
Dianella revoluta var. *divaricata*

IRIDACEAE
**Freesia alba x leichtlinii*
**Gladiolus caryophyllaceus*
**Romulea rosea*
**Watsonia meriana*

ORCHIDACEAE
Diuris brumalis
Leporella fimbriata
Prasophyllum sp.
Pterostylis sp.
Pyrorchis nigricans

POACEAE
**Anthoxanthum odoratum*
**Arundo donax*
**Briza maxima*
**Ehrharta calycina*
**Eragrostis curvula*

XANTHORRHOEACEAE
Xanthorrhoea gracilis
Xanthorrhoea preissii

DICOTYLEDONS

AMARANTHACEAE
Ptilotus manglesii

APIACEAE
Platysace filiformis
Xanthosia huegelii

ASTERACEAE
**Arctotheca calendula*
**Conyza bonariensis*
**Hypochaeris glabra*
Olearia paucidentata
Olearia sp
**Taraxacum officinale*
**Ursinia anthemoides*

CASUARINACEAE
Allocasuarina fraseriana

DILLENIACEAE
Hibbertia sp

DROSERACEAE
Drosera erythrorhiza
Drosera porrecta

ERICACEAE
Styphelia propinqua

FABACEAE
**Acacia iteaphylla*
**Acacia longifolia*
**Acacia podalyriifolia*
Acacia pulchella
Bossiaea aquifolium subsp. *aquifolium*
Bossiaea ornata
**Chamaecytisus palmensis*
Daviesia decurrens subsp. *decurrens*
Daviesia rhombifolia
Gompholobium marginatum
Gompholobium tomentosum
Hardenbergia comptoniana
Hovea chorizemifolia
Hovea trisperma var. *trisperma*
Kennedia coccinea

GOODENIACEAE
Dampiera linearis
Lechenaultia biloba
Scaevola calliptera

LAMIACEAE
Hemiandra pungens
**Lavandula stoechas*

LAURACEAE
Cassytha sp.

MYRTACEAE
Babbingtonia camphorosmae
**Chamelaucium uncinatum*
Corymbia calophylla
**Corymbia maculata*
**Eucalyptus globulus*
Eucalyptus marginata

OXALIDACEAE
**Oxalis debilis* var. *corymbosa*
**Oxalis pes-caprae*

PHYLLANTHACEAE
Phyllanthus calycina

PITTOSPORACEAE
Billardiera fusiformis

PROTEACEAE
Banksia dallanneyi
Banksia sessilis
Grevillea synapheae
Hakea petiolaris

RANUNCULACEAE
Clematis pubescens

RHAMNACEAE
Trymalium ledifolium var. *rosmarinifolium*

RUBIACEAE
Opercularia hispidula
Opercularia sp.

RUTACEAE
Cyanothamnus ramosus subsp. *ramosus*
Philotheca spicata

STYLIDIACEAE
Stylidium brunonianum
Stylidium piliferum
Stylidium repens
Stylidium sp.

THYMELEACEAE
Pimelea suaveolens

VIOLACEAE
Hybanthus floribundus subsp. *floribundus*