

This figure is a detailed site plan for the North Arm Drainage Redevelopment Plan at Buchan Caves Reserve. It consists of two main sections: SECTION A - NORTH and SECTION B - SOUTH, which are continuations of each other. The plan shows the layout of the drainage system, including various channels (CH) and their elevations, and the locations of numerous trees. Each tree is represented by a circular symbol indicating its retention value and the impact of the proposed works. The plan also shows the locations of sapling wattles, dense vegetation, and areas to be excavated or reconstructed. A legend explains the symbols used for tree retention, vegetation, and impact. Two tables provide detailed information about the trees: one for Section A and one for Section B, listing the tree number, species, retention value, impact summary, and the percentage of the tree protection zone (TPZ) that will be encroached. The plan is dated 16/08/2023 and was updated on 19/03/2024. It was designed by S. FITZ and drafted by S. FITZ. The plan was checked by S. FITZ and the DWG NO. is ARB-01 A. The plan was created by ARBORICULTURE PTY LTD. The plan is a draft and should not be used for construction. The plan is a draft and should not be used for construction. The plan is a draft and should not be used for construction.

SECTION A - NORTH

Stormwater permitted to flow across the ground (comprising road and grassed area)

Numerous sapling wattles

Rehabilitation works only - no impact

SECTION B - SOUTH

Legend

- TPZ/SRZ to AS4970
- Tree stem centres
- Retention Value
 - Very High
 - High
 - Medium
 - Low
- Dense veg
- Sapling wattles
- Proposed Swale
- Excavation
- Rehabilitation area (no impacts)
- Track to be reconstructed
- Up to 200mm depth crushed rock
- TPZ Encroachments
 - Lost
 - Minor impact
 - Moderate impact
 - Moderate to high impact
 - No impact

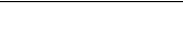
Tree # SPECIES Retention Impact Summary TPZ Encroach.

153	Populus x canadensis	Very High	No impact	0%
154	Populus x canadensis	Very High	No impact	0%
167	Ulmus glabra 'Lutescens'	Very High	Minor impact	1%
538	Gleditsia triacanthos 'Sunburst'	Low	Lost	97%
539	Juglans regia	Medium	Lost	27%
540	Juglans regia	High	Moderate to high impact	28%
541	Juglans regia	High	Lost	55%
543	Betula pendula	Medium	Lost	100%
544	Betula pendula	Medium	Lost	63%
545	Betula pendula	Medium	Lost	62%
546	Platanus orientalis	High	Lost	38%
561	Fraxinus angustifolia	Low	Lost	92%
562	Tilia x europaea	High	Lost	52%
563	Fraxinus 'Raywood'	High	Lost	42%
564	Populus nigra var. italica	Low	Lost	80%
565	Fraxinus angustifolia	Medium	Lost	97%
567	Fraxinus 'Raywood'	High	Lost	36%
568	Populus nigra var. italica	Low	Lost	89%
570	Tilia x europaea	High	Lost	59%
571	Fraxinus angustifolia 'Raywood'	High	Lost	58%
572	Populus nigra var. italica	Medium	Lost	48%
574	Tilia x europaea	High	Lost	55%
575	Tilia x europaea	High	Lost	45%
580	Eucalyptus rubida	Very High	No impact	0%
581	Brachychiton populneus	Medium	No impact	0%
594	Eucalyptus viminalis	Very High	Minor impact	0%
595	Quercus rubra	Medium	Lost	78%
598	Eucalyptus melliodora	Medium	No impact	0%
599	Eucalyptus melliodora	Medium	No impact	0%
600	Eucalyptus melliodora	Medium	No impact	0%
601	Allocasuarina littoralis	Medium	No impact	0%
602	Brachychiton populneus	Medium	No impact	0%
609	Tilia x europaea	Medium	No impact	0%
623	Eucalyptus viminalis	Very High	Minor impact	0%
624	Fraxinus angustifolia	Low	Lost	34%
625	Fraxinus excelsior 'Aurea'	Low	No impact	0%
626	Fraxinus angustifolia	Medium	Lost	47%
627	Fraxinus angustifolia	Medium	Moderate to high impact	22%
628	Tilia cordata	Medium	No impact	0%
629	Fraxinus angustifolia	Medium	Lost	56%
630	Tilia cordata	Medium	Minor impact	9%

Tree # SPECIES Retention Impact Summary TPZ Encroach.

632	Eucalyptus elata	Very High	Minor impact	8%
633	Fraxinus angustifolia	Low	No impact	0%
2301	Chamaecyparis lawsoniana	Medium	No impact	0%
2302	Juglans regia	Low	Lost	77%
2303	Fraxinus excelsior 'Aurea'	Medium	No impact	0%
2304	Quercus sp.	Medium	No impact	0%
2305	Juglans regia	Medium	Lost	55%
2306	Juglans regia	Medium	No impact	0%
2307	Fraxinus excelsior 'Aurea'	Low	No impact	0%
2308	Pinus halepensis	Low	No impact	0%
2309	Pinus halepensis	Low	No impact	0%
2310	Pinus halepensis	Medium	No impact	0%
2311	Pinus halepensis	Medium	Minor impact	8%
2312	Pinus halepensis	Medium	No impact	0%
2313	Pinus halepensis	Medium	No impact	0%
2314	Liquidambar styraciflua	Medium	Lost	68%
2315	Fraxinus excelsior 'Aurea'	Medium	Lost	74%
2316	Acer sp. cv	Medium	Minor impact	0%
2317	Eucalyptus melliodora	Medium	Lost	54%
2318	Malicypus dentatus	High	Minor impact	7%
2319	Hakea laurina	Medium	Lost	48%
2320	Eucalyptus melliodora	Medium	Lost	38%
2321	Acer rubrum	Medium	No impact	0%
2322	Eucalyptus melliodora	High	Moderate impact	17%
2323	Corymbia maculata	Low	No impact	0%
2324	Callitris glaucophylla	Medium	No impact	0%
2325	Chamaecyparis lawsoniana	Medium	No impact	0%
2326	Fraxinus sp.	Medium	No impact	0%
2327	Eucalyptus sp.	High	No impact	0%
2328	Eucalyptus viminalis	High	No impact	0%
2329	Eucalyptus sp.	Medium	No impact	0%
2330	Eucalyptus melliodora	Very High	No impact	0%
2331	Eucalyptus melliodora	High	No impact	0%
2332	Eucalyptus sp.	High	No impact	0%
2333	Pinus sp.	Medium	No impact	0%
2334	Picea sitchensis	Medium	No impact	0%
2335	Eucalyptus melliodora	Low	No impact	0%
2336	Eucalyptus melliodora	Low	No impact	0%
2337	Fraxinus 'Raywood'	High	No impact	0%
2338	Abies sp.	Medium	No impact	0%
2339	Brachychiton populneus	Medium	No	

Tree #	SPECIES	Retention	Impact Summary	TP2 Encroach.
632	Eucalyptus elata	Very High	Minor impact	9%
633	Fraxinus angustifolia	Low	No impact	0%
2301	Chamaecyparis lawsoniana	Medium	No impact	0%
2302	Juglans regia	Low	Lost	77%
2303	Fraxinus excelsior 'Aurea'	Medium	No impact	0%
2304	Quercus sp.	Medium	No impact	0%
2305	Juglans regia	Medium	Lost	55%
2306	Juglans regia	Medium	No impact	0%
2307	Fraxinus excelsior 'Aurea'	Low	No impact	0%
2308	Pinus halepensis	Low	No impact	0%
2309	Pinus halepensis	Low	No impact	0%
2310	Pinus halepensis	Medium	No impact	0%
2311	Pinus halepensis	Medium	Minor impact	8%
2312	Pinus halepensis	Medium	No impact	0%
2313	Pinus halepensis	Medium	No impact	0%
2314	Liquidambar styraciflua	Medium	Lost	68%
2315	Fraxinus excelsior 'Aurea'	Medium	Lost	74%
2316	Acer sp. cv	Medium	Minor impact	0%
2317	Eucalyptus melliodora	Medium	Lost	54%
2318	Meliclytus dentatus	High	Minor impact	7%
2319	Hakea laurina	Medium	Lost	46%
2320	Eucalyptus melliodora	Medium	Lost	36%
2321	Aster rubrum	Medium	No impact	0%
2322	Eucalyptus melliodora	High	Moderate impact	17%
2323	Corymbia maculata	Low	No impact	0%
2324	Callitris glaucophylla	Medium	No impact	0%
2325	Chamaecyparis lawsoniana	Medium	No impact	0%
2326	Fraxinus sp.	Medium	No impact	0%
2327	Eucalyptus sp.	High	No impact	0%
2328	Eucalyptus viminalis	High	No impact	0%
2329	Eucalyptus sp.	Medium	No impact	0%
2330	Eucalyptus melliodora	Very High	No impact	0%
2331	Eucalyptus melliodora	High	No impact	0%
2332	Eucalyptus sp.	High	No impact	0%
2333	Pinus sp.	Medium	No impact	0%
2334	Picea sitchensis	Medium	No impact	0%
2335	Eucalyptus melliodora	Low	No impact	0%
2336	Eucalyptus melliodora	Low	No impact	0%
2337	Fraxinus 'Raywood'	High	No impact	0%
2338	Abies sp.	Medium	No impact	0%
2339	Brachychiton populneus	Medium	No impact	0%
2340	Acacia caerulescens	High	No impact	0%

H	A	14/08/2023	Draft for client approval	SF	Notes Tree Protection Zones (TPZ) and Structural Root Zones (SRZ) calculated as per AS4970-2009, Protection of Trees on Development Sites. Tree locations plotted using DGNSS and Feature Surveys provided by the client		WARNING <i>Any services shown or not shown on this map are part of the base plan supplied. The exact location of services should be proven on site. This plan is not intended to identify services and should not be used as such.</i>	 ARBORICULTURE PTY LTD steve@starboniculture.com.au 0419 377 872	DESIGNED	S. FITZ	MELWAYS	N/A	Tree TPZ Encroachment Analysis Plan Buchan Caves Reserve North Arm Drainage Redevelopment Plan	 0 5m 1:350 @ A1	H
	B	19/03/2024	Updated to new Crosso plan of 16/3/2024	SF					DRAFT	S. FITZ	CONSULTANT REF	10678.92023			
									CHECKED		SURVEY REF	Supplied Feature Survey			
									DWG NO.	ARB-01 A	CAD FILE REF	GIS only			