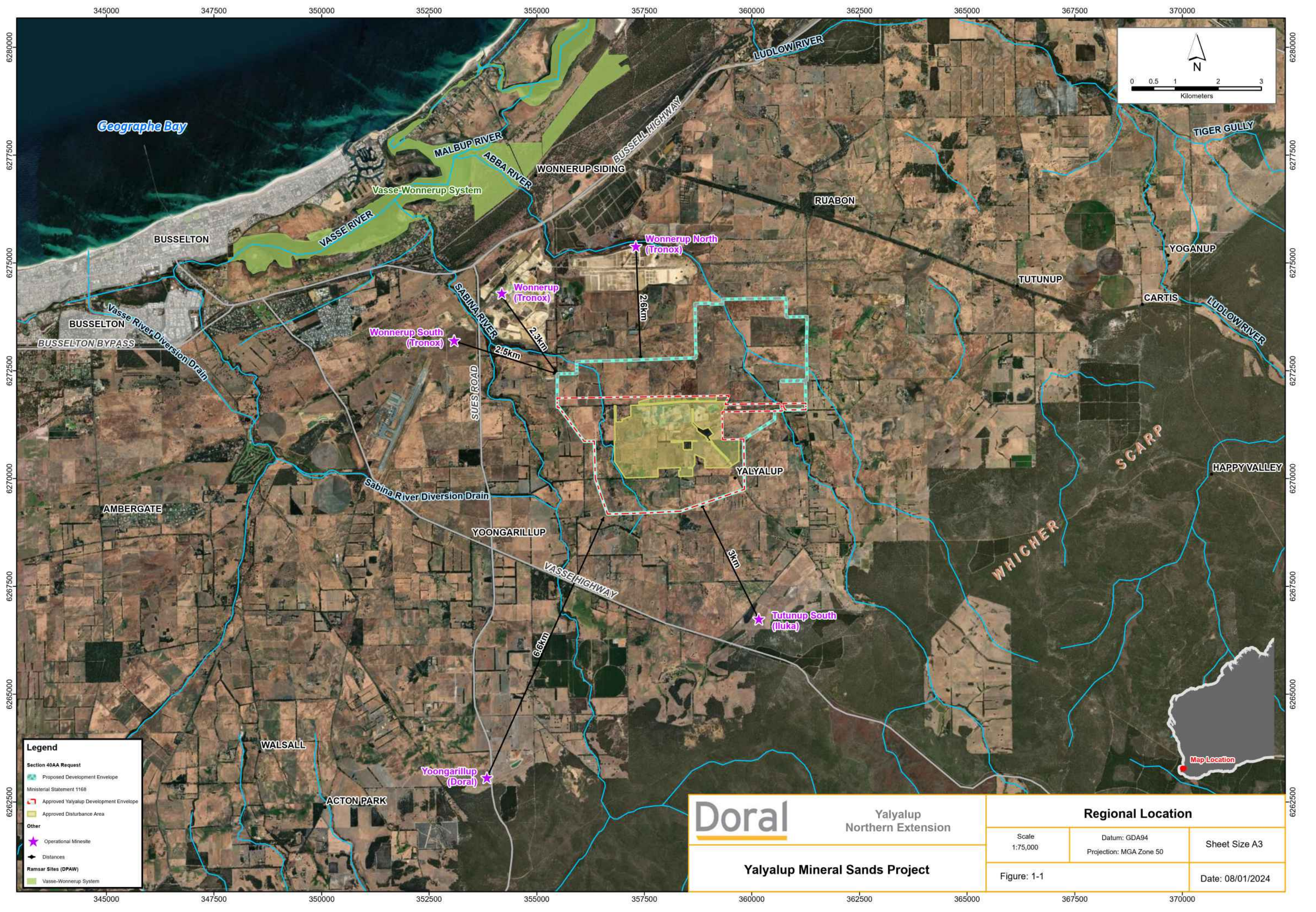


FIGURE 1-1: REGIONAL LOCATION



Legend

Section 40AA Request

- Proposed Development Envelope
- Ministerial Statement 1168
- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Other

- Operational Minesite
- Distances
- Ramsar Sites (DPAW)
- Vasse-Wonnerup System

Doral

Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Regional Location		
Scale 1:75,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 1-1	Date: 08/01/2024	

FIGURE 1-2: SITE LOCATION

Legend

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m

MS 1168 / EPBC 2017/8094

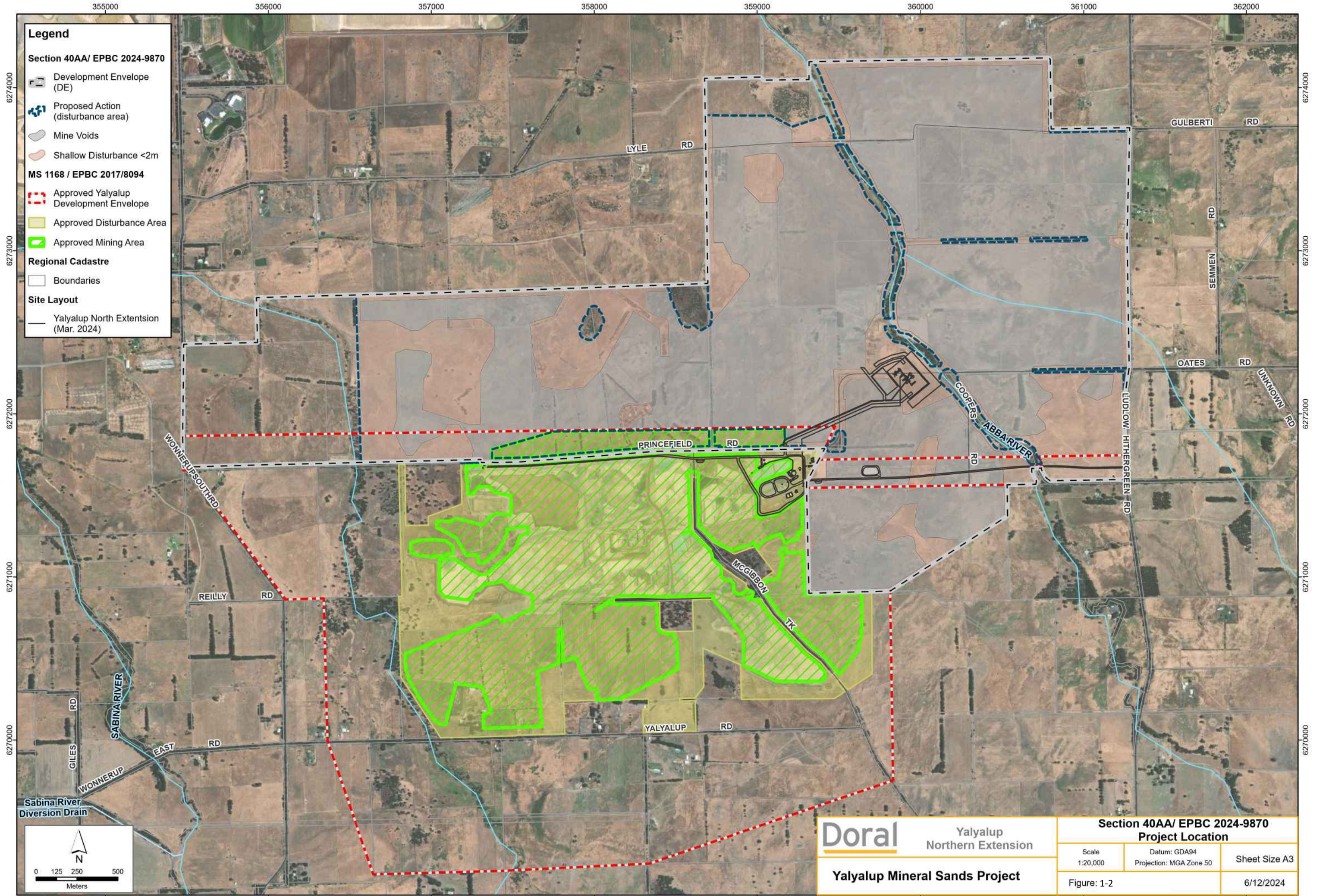
- Approved Yalyalup Development Envelope
- Approved Disturbance Area
- Approved Mining Area

Regional Cadastre

- Boundaries

Site Layout

- Yalyalup North Extenssion (Mar. 2024)



Doral Yalyalup Northern Extension

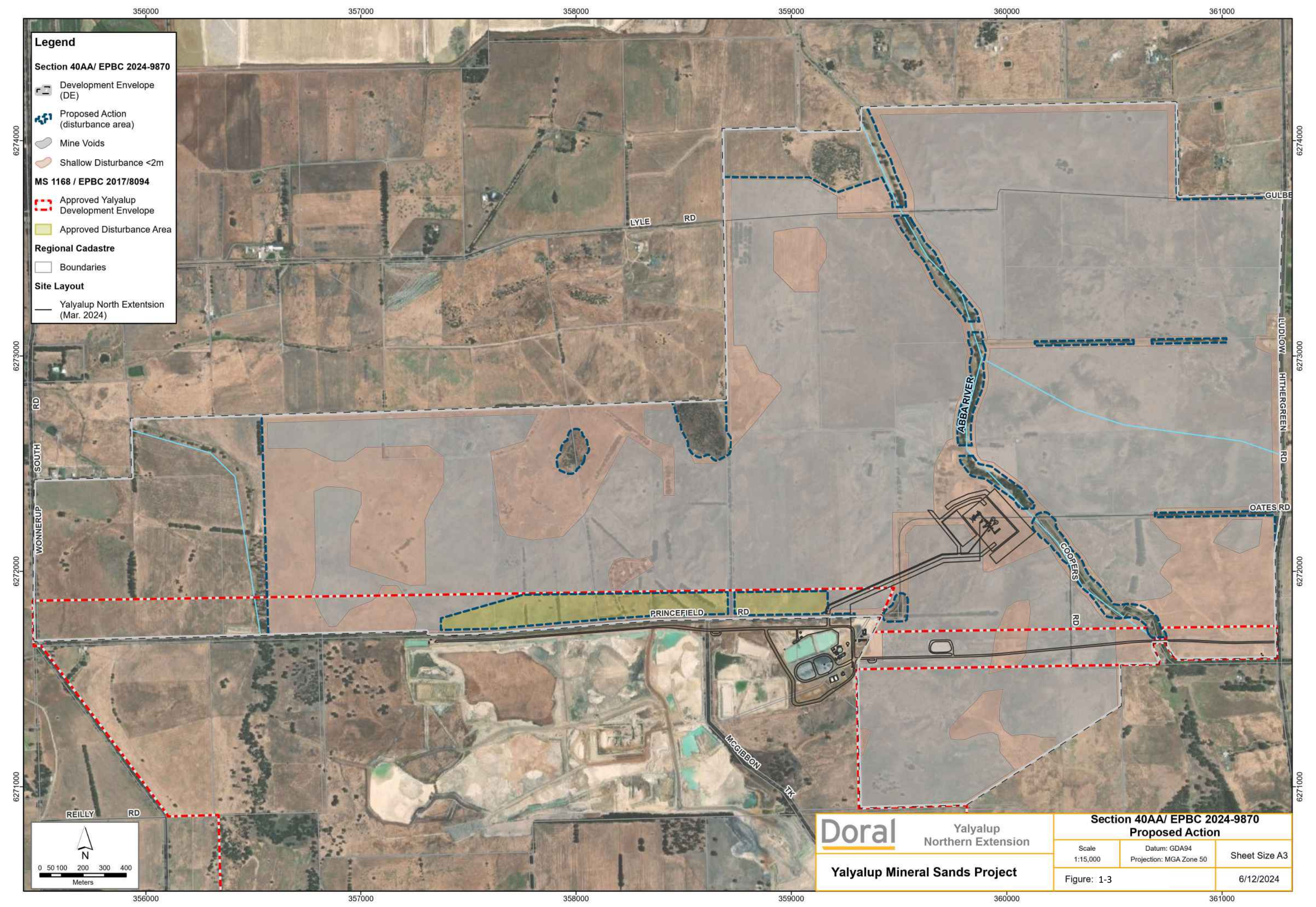
Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Project Location

Scale 1:20,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
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Figure: 1-2	6/12/2024
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FIGURE 1-3: NORTHERN EXTENSION PROPOSAL AREA



Legend

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m

MS 1168 / EPBC 2017/8094

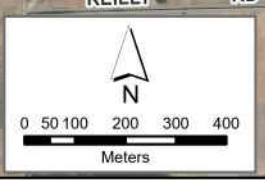
- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Regional Cadastre

- Boundaries

Site Layout

- Yalyalup North Extension (Mar. 2024)



Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Proposed Action		
Scale 1:15,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 1-3		6/12/2024

FIGURE 5-1: SOIL LANDSCAPE SYSTEMS

356000 357000 358000 359000 360000 361000

Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Soil Landscape Systems

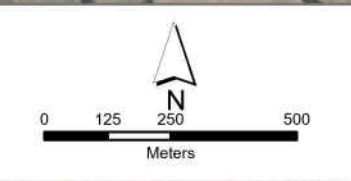
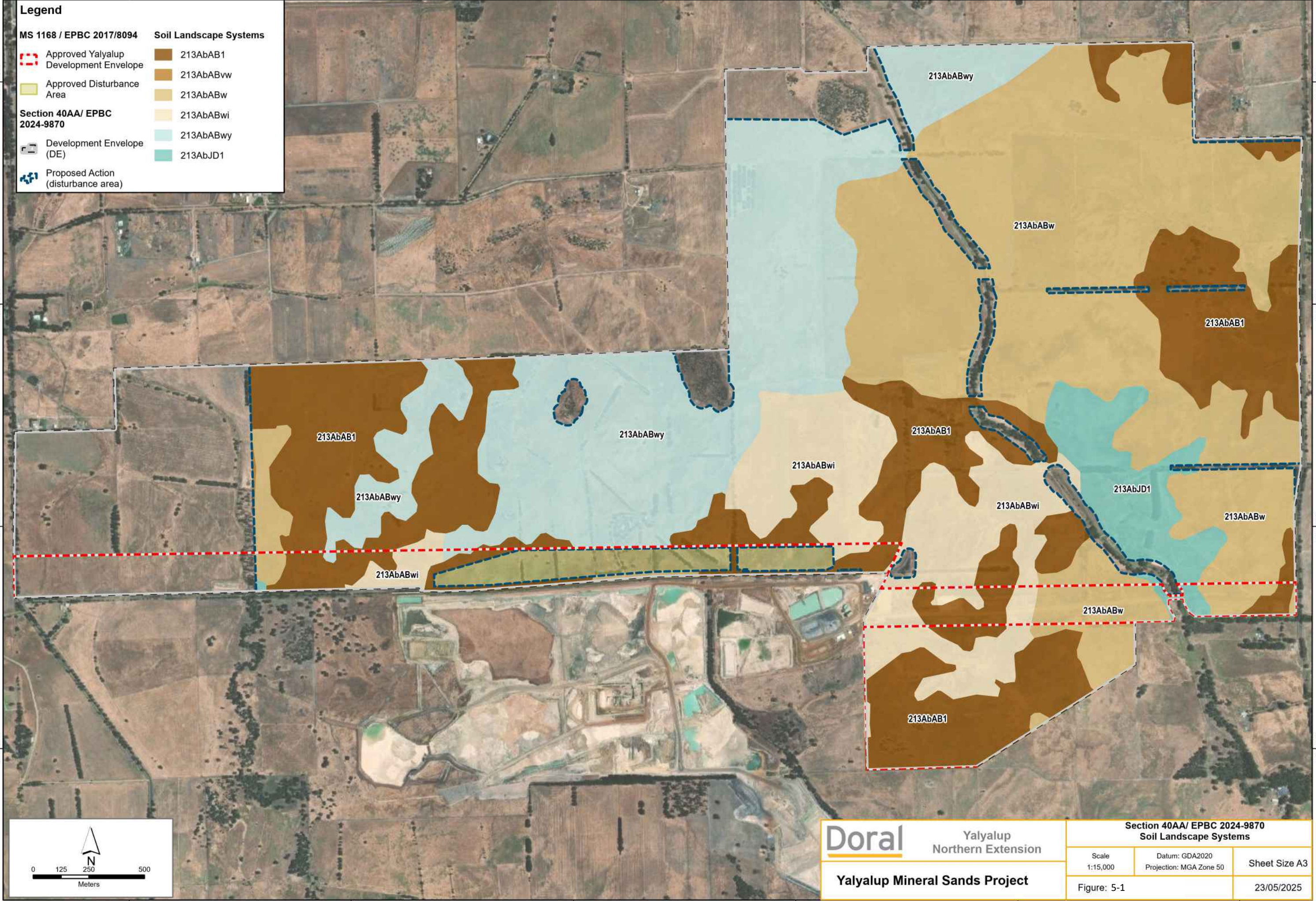
- 213AbAB1
- 213AbABw
- 213AbABW
- 213AbABwi
- 213AbABwy
- 213AbJD1

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)

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<p>Doral</p> <p>Yalyalup Northern Extension</p> <p>Yalyalup Mineral Sands Project</p>	<p>Section 40AA/ EPBC 2024-9870</p> <p>Soil Landscape Systems</p>		
	<p>Scale: 1:15,000</p>	<p>Datum: GDA2020</p> <p>Projection: MGA Zone 50</p>	<p>Sheet Size A3</p>
	<p>Figure: 5-1</p>		<p>23/05/2025</p>

356000 357000 358000 359000 360000 361000

FIGURE 5-2: VEGETATION COMPLEXES

356000 357000 358000 359000 360000 361000

Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)

Proposed Action (disturbance area)

Vegetation Complexes (DBCA)

- SWAN COASTAL PLAIN (Abba Complex)

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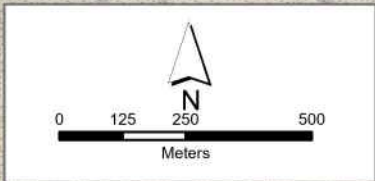
6274000

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SWAN COASTAL PLAIN
Abba Complex



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Doral	Yalyalup Northern Extension		Section 40AA/ EPBC 2024-9870	
			Vegetation Complexes	
	Scale 1:15,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3	
Yalyalup Mineral Sands Project		Figure: 5-2	23/05/2025	

FIGURE 5-3: VEGETATION UNITS

356000 357000 358000 359000 360000 361000

Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)

Vegetation Mapping

Vegetation Unit

- A1
- A2
- B1
- B2
- C1
- C2
- C3
- Cleared
- PL

Regional Cadastre

- Boundaries

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6272000

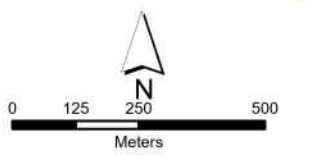
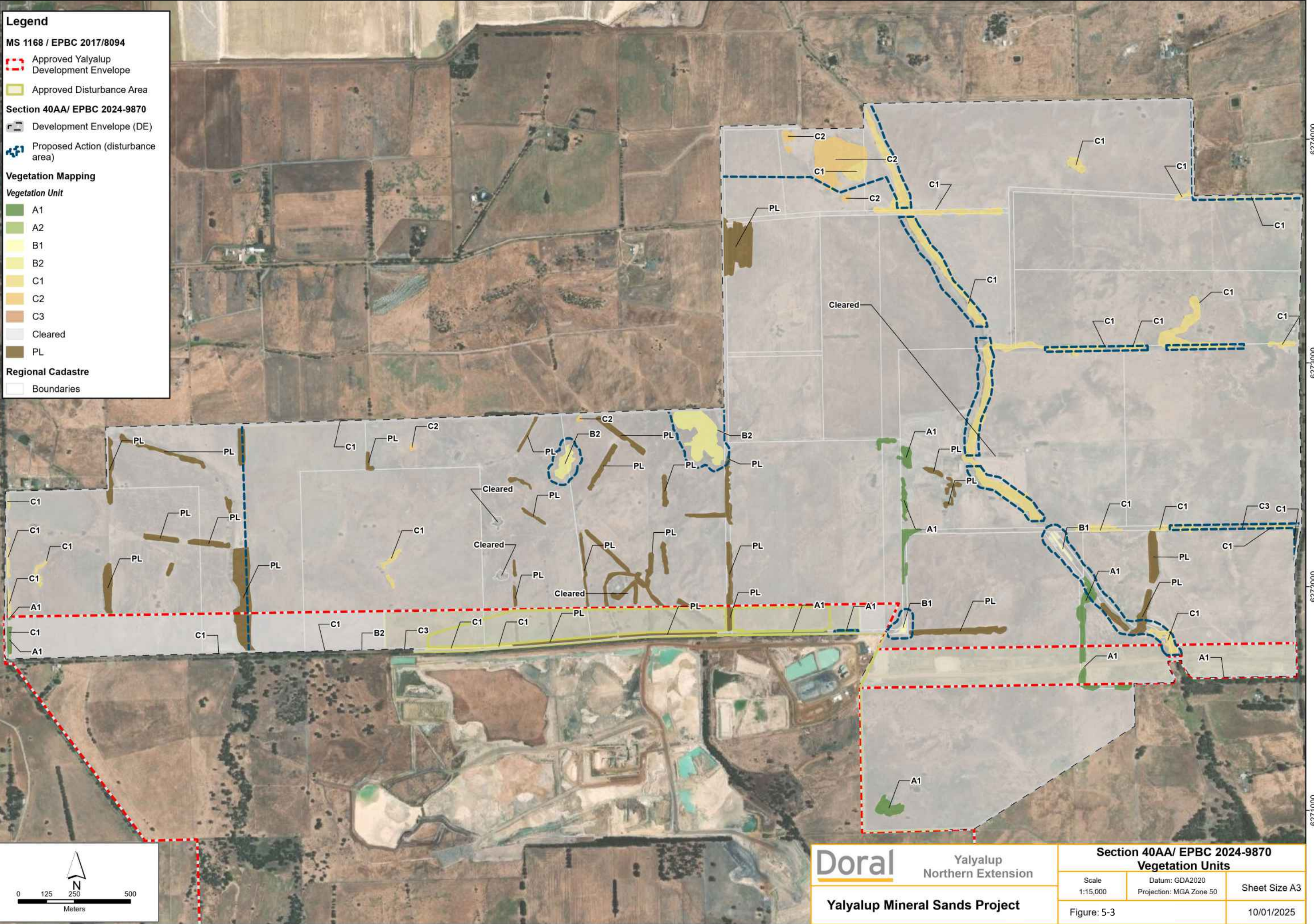
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Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Vegetation Units		
Scale 1:15,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3
Figure: 5-3		10/01/2025

356000 357000 358000 359000 360000 361000

FIGURE 5-4: VEGETATION CONDITION

356000 357000 358000 359000 360000 361000

Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)

Vegetation Condition

- Good
- Degraded/Good
- Degraded
- Completely Degraded
- Cleared

Regional Cadastre

- Boundaries

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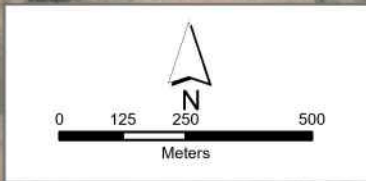
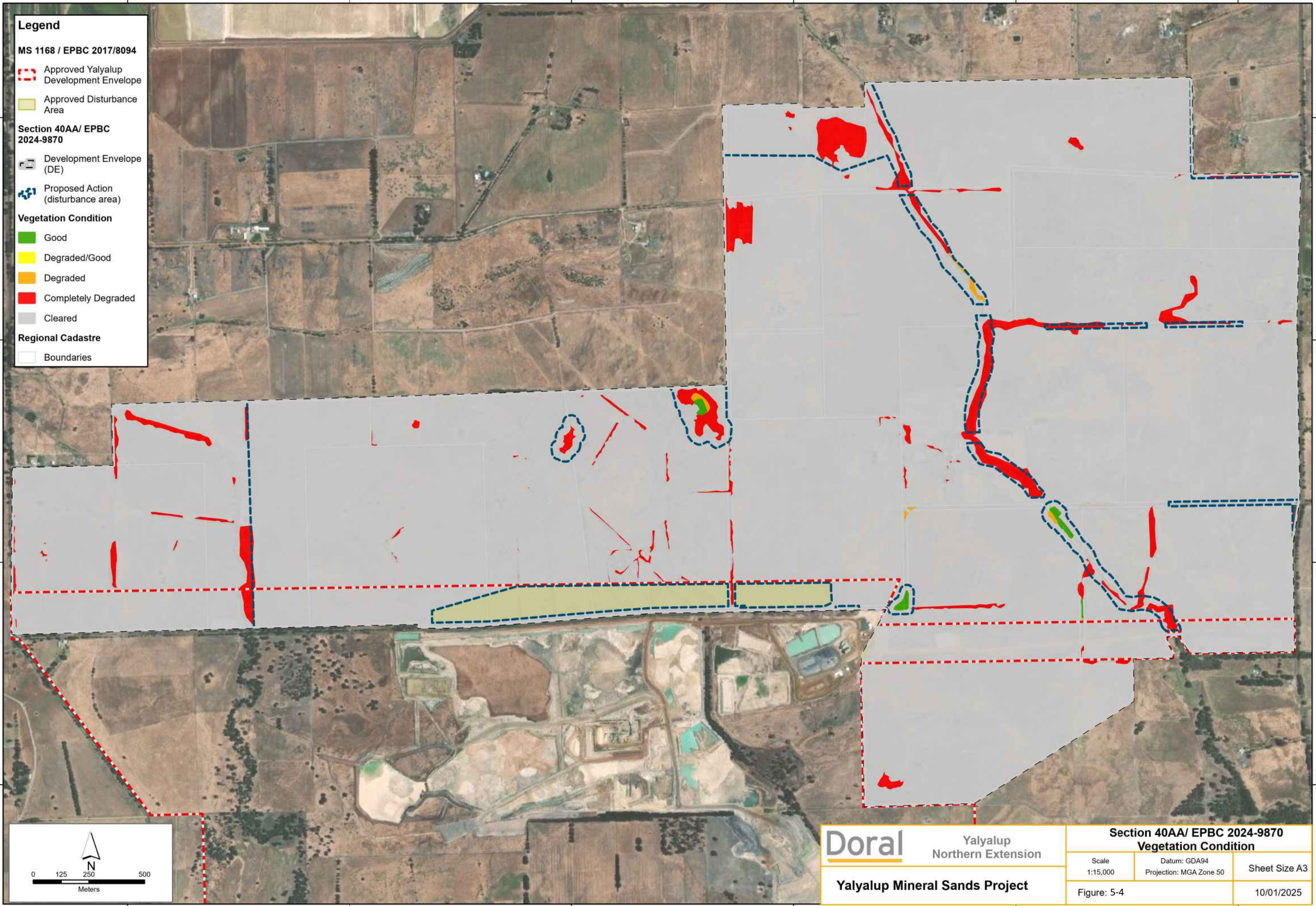
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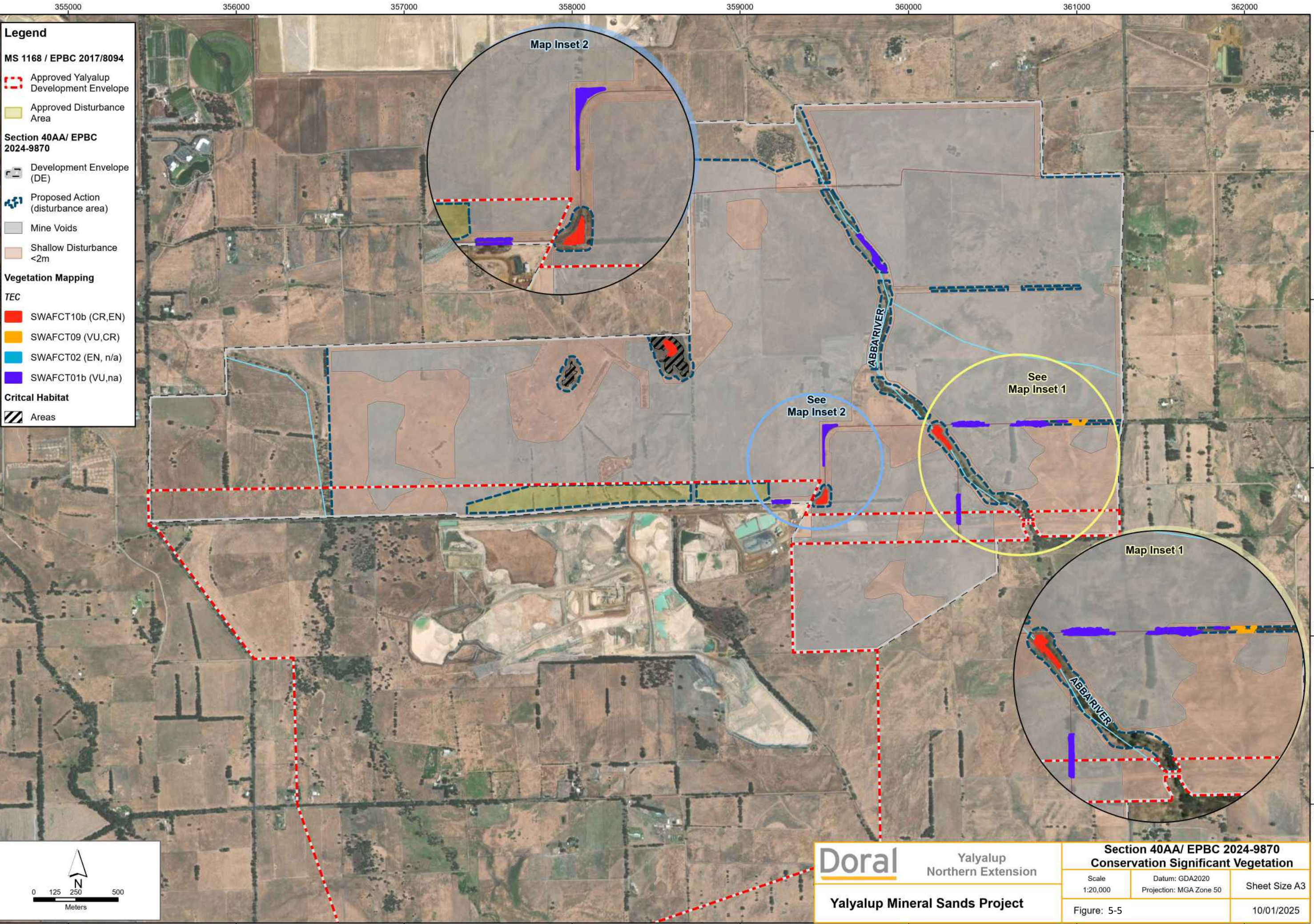
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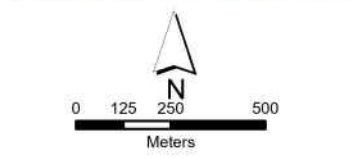
356000 357000 358000 359000 360000 361000

<p>Doral</p> <p>Yalyalup Northern Extension</p> <p>Yalyalup Mineral Sands Project</p>	<p>Section 40AA/ EPBC 2024-9870</p> <p>Vegetation Condition</p>		
	<p>Scale: 1:15,000</p>	<p>Datum: GDA94</p> <p>Projection: MGA Zone 50</p>	<p>Sheet Size A3</p>
	<p>Figure: 5-4</p>		<p>10/01/2025</p>

FIGURE 5-5: CONSERVATION SIGNIFICANT VEGETATION



- Legend**
- MS 1168 / EPBC 2017/8094**
- Approved Yalyalup Development Envelope
 - Approved Disturbance Area
- Section 40AA/ EPBC 2024-9870**
- Development Envelope (DE)
 - Proposed Action (disturbance area)
 - Mine Voids
 - Shallow Disturbance <2m
- Vegetation Mapping**
- TEC**
- SWAFCT10b (CR,EN)
 - SWAFCT09 (VU,CR)
 - SWAFCT02 (EN, n/a)
 - SWAFCT01b (VU,na)
- Critical Habitat**
- Areas



Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Conservation Significant Vegetation		
Scale 1:20,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3
Figure: 5-5		10/01/2025

FIGURE 5-6: CONSERVATION SIGNIFICANT FLORA

356000 357000 358000 359000 360000 361000

Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area
- Mine Voids
- Shallow Disturbance <2m

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)

Significant Flora

Threatened (EPBC Act)

- Verticordia plumosus var. vassensis

Priority 3 (BC Act)

- Grevillea brachystylis subsp. brachystylis
- Loxocarya magna

Priority 4 (BC Act)

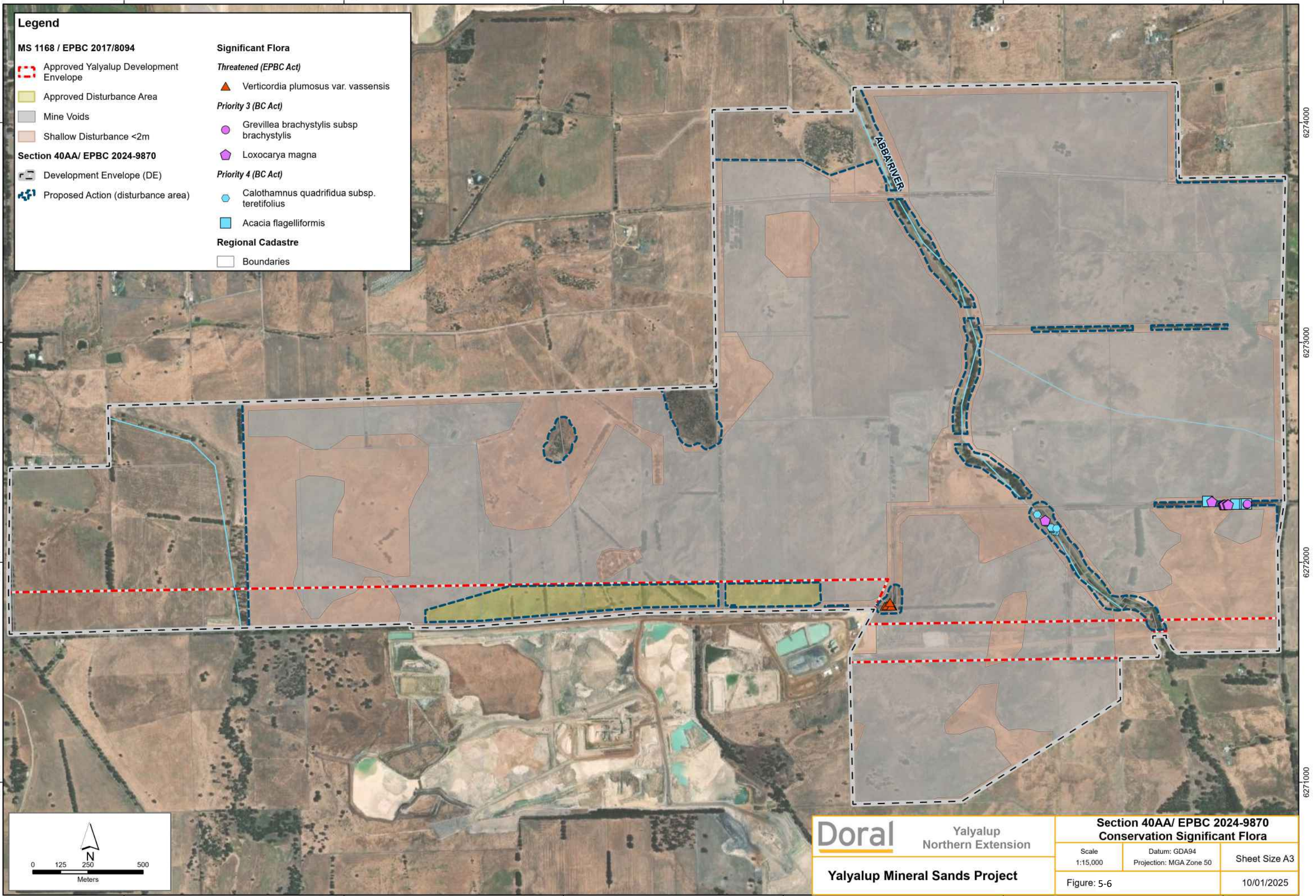
- Calothamnus quadrifidua subsp. teretifolius
- Acacia flagelliformis

Regional Cadastre

- Boundaries

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Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

**Section 40AA/ EPBC 2024-9870
Conservation Significant Flora**

Scale 1:15,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
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Figure: 5-6	10/01/2025
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FIGURE 5-7: WEEDS AND DIEBACK

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Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m

Weed Locations

- Arum lily (*Zantedeschia aethiopica*)
- Bridal creeper (*Asparagus asparagoides*)

Dieback

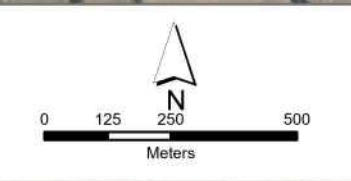
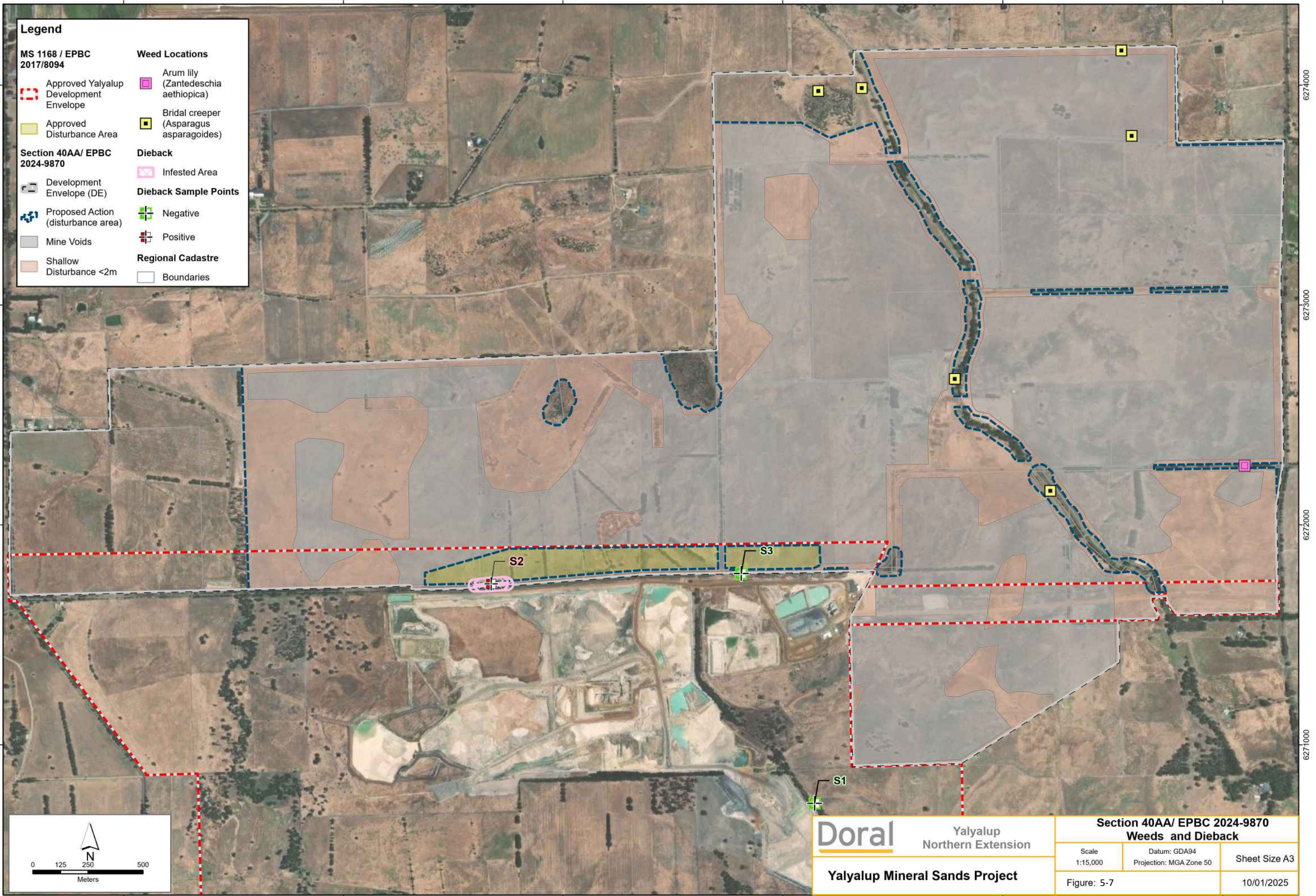
- Infested Area

Dieback Sample Points

- Negative
- Positive

Regional Cadastre

- Boundaries



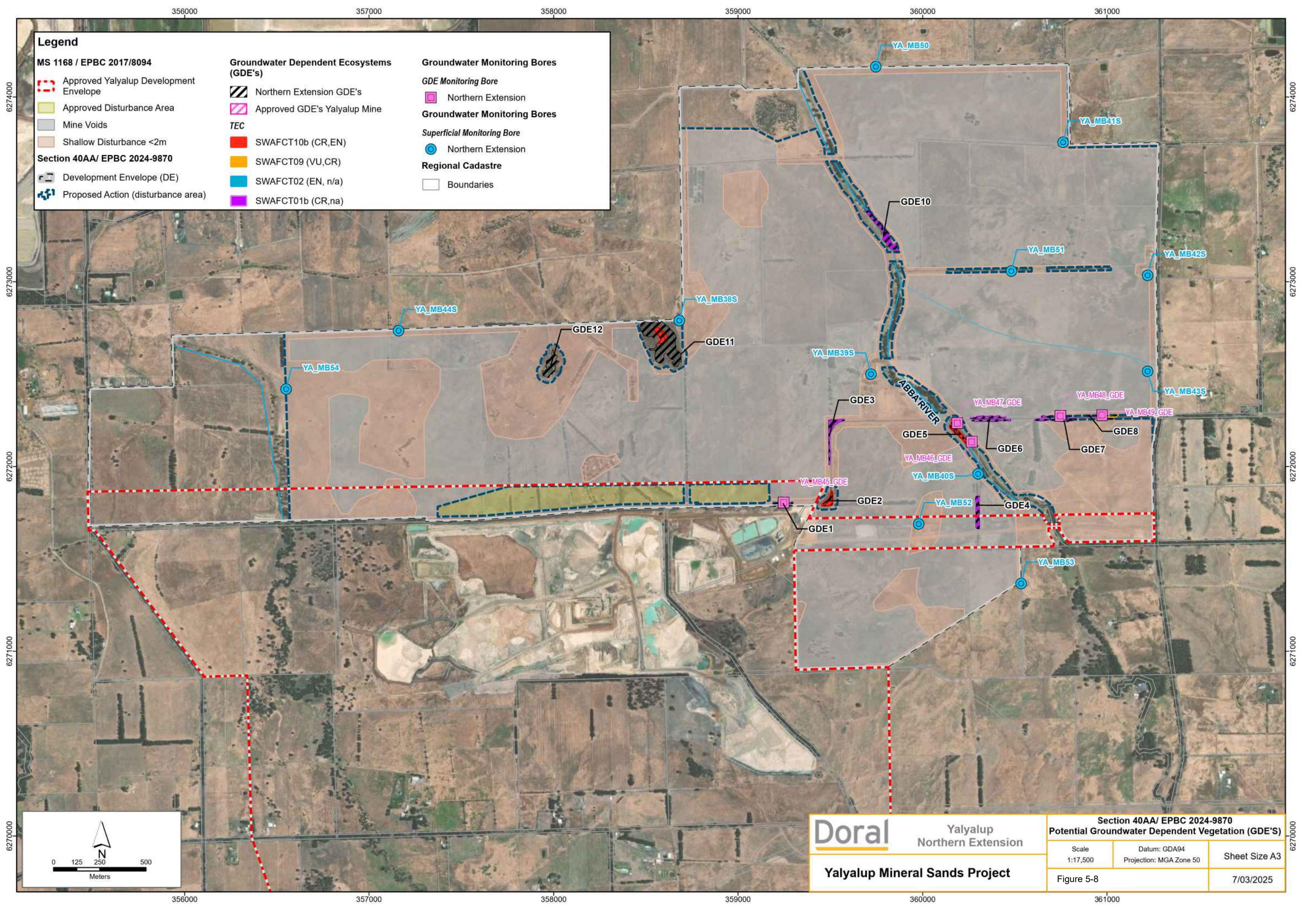
Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Weeds and Dieback		
Scale 1:15,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 5-7		10/01/2025

356000 357000 358000 359000 360000 361000

FIGURE 5-8: GROUNDWATER DEPENDENT ECOSYSTEMS (GDES)



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area
- Mine Voids
- Shallow Disturbance <2m

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)

Groundwater Dependent Ecosystems (GDE's)

- Northern Extension GDE's
- Approved GDE's Yalyalup Mine

TEC

- SWAFCT10b (CR,EN)
- SWAFCT09 (VU,CR)
- SWAFCT02 (EN, n/a)
- SWAFCT01b (CR,na)

Groundwater Monitoring Bores

GDE Monitoring Bore

- Northern Extension

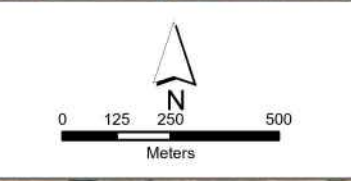
Groundwater Monitoring Bores

Superficial Monitoring Bore

- Northern Extension

Regional Cadastre

- Boundaries



<p>Doral</p> <p>Yalyalup Northern Extension</p> <p>Yalyalup Mineral Sands Project</p>	<p>Section 40AA/ EPBC 2024-9870</p> <p>Potential Groundwater Dependent Vegetation (GDE'S)</p>	
	<p>Scale: 1:17,500</p>	<p>Datum: GDA94</p> <p>Projection: MGA Zone 50</p>
	<p>Figure 5-8</p>	<p>Sheet Size A3</p> <p>7/03/2025</p>

FIGURE 6-1: VSAs

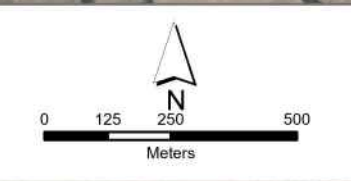
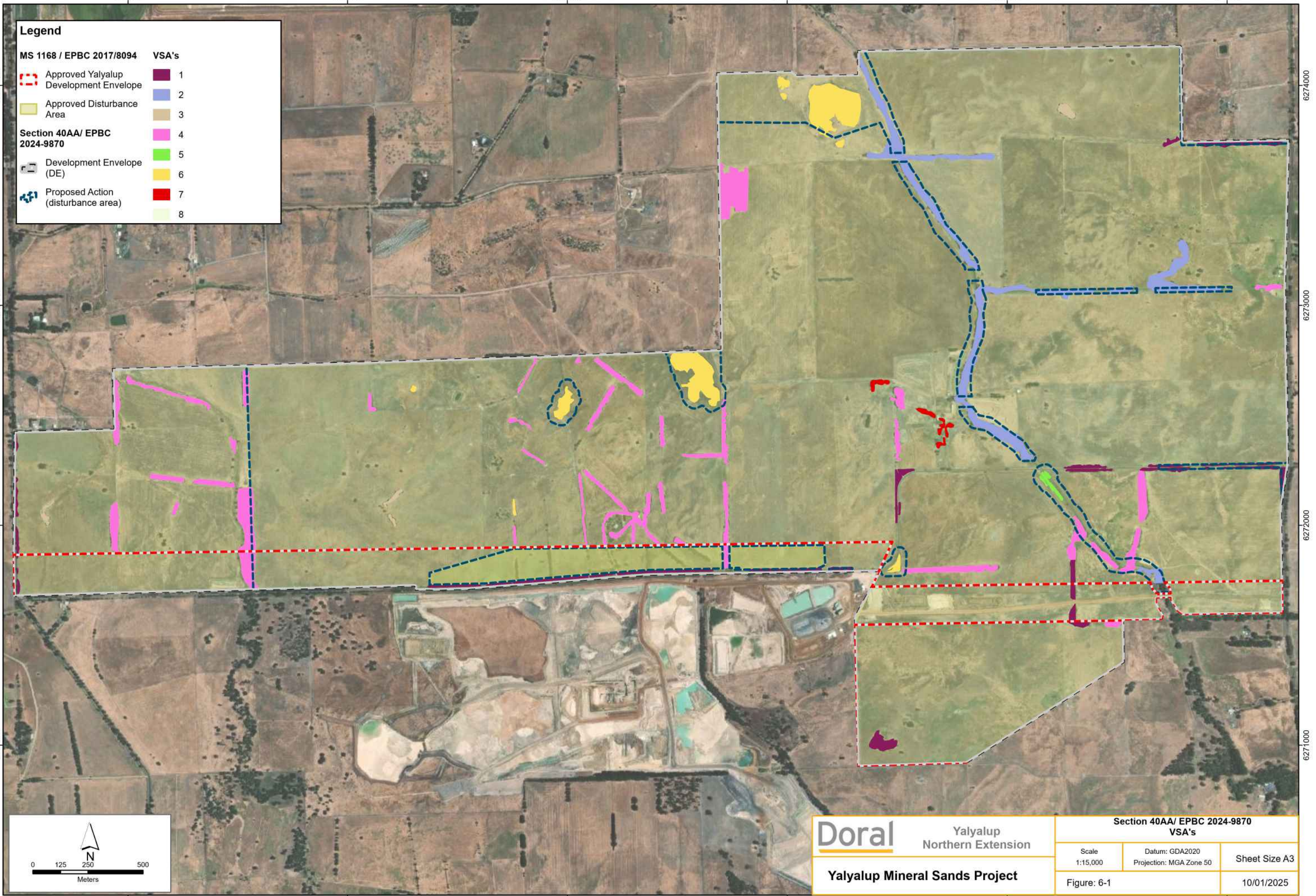
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Legend

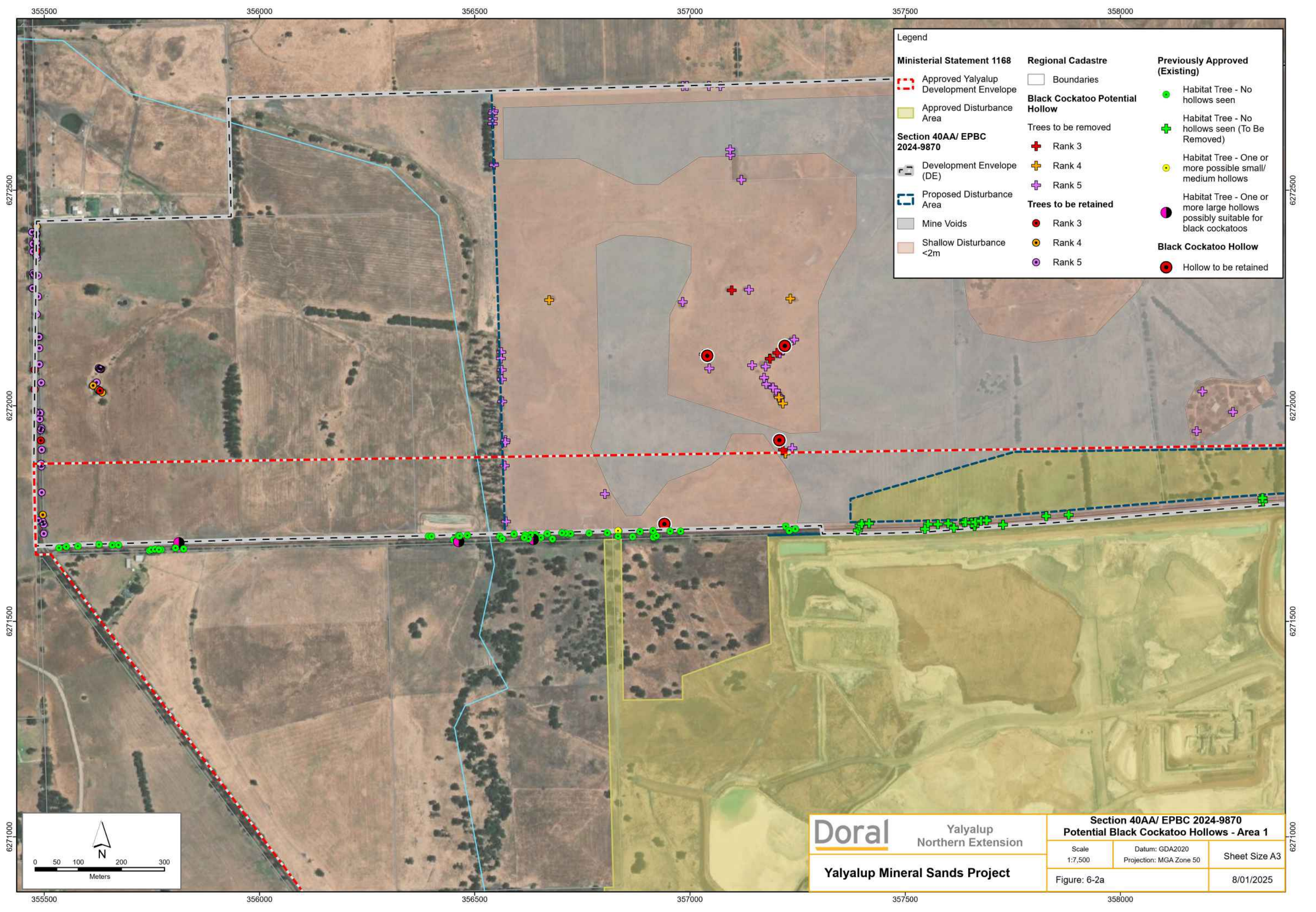
MS 1168 / EPBC 2017/8094	VSA's
Approved Yalyalup Development Envelope	1
Approved Disturbance Area	2
Section 40AA/ EPBC 2024-9870	3
Development Envelope (DE)	4
Proposed Action (disturbance area)	5
	6
	7
	8



	Yalyalup Northern Extension		Section 40AA/ EPBC 2024-9870 VSA's	
	Scale 1:15,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3	
	Figure: 6-1		10/01/2025	

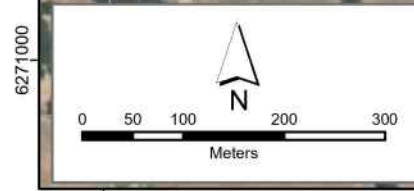
356000 357000 358000 359000 360000 361000

FIGURE 6-2: BC TREES WITH POSSIBLY SUITABLE HOLLOW

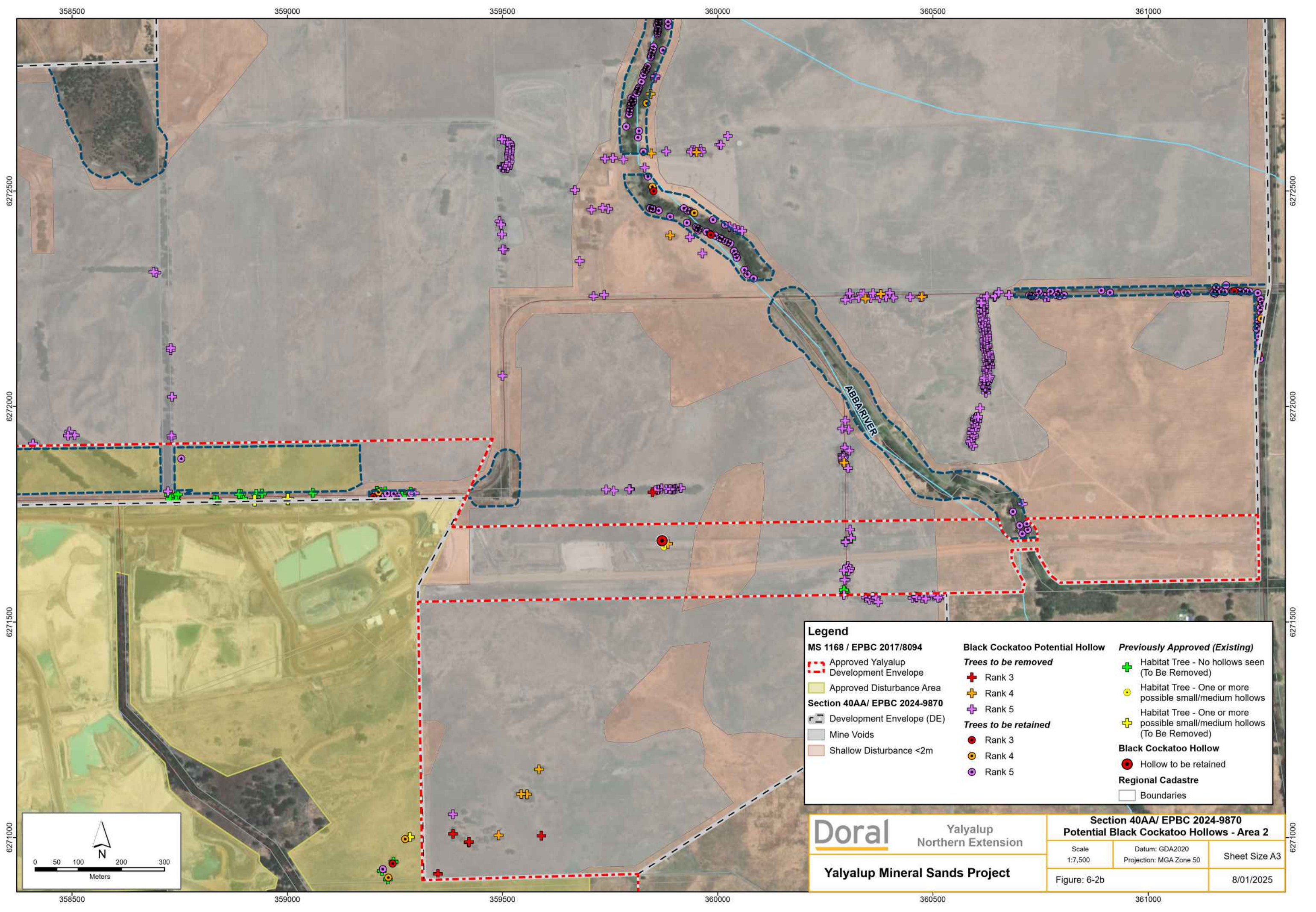


Legend

Ministerial Statement 1168	Regional Cadastre	Previously Approved (Existing)
Approved Yalyalup Development Envelope	Boundaries	Habitat Tree - No hollows seen
Approved Disturbance Area	Black Cockatoo Potential Hollow	Habitat Tree - No hollows seen (To Be Removed)
Section 40AA/ EPBC 2024-9870	Trees to be removed	Habitat Tree - One or more possible small/ medium hollows
Development Envelope (DE)	Rank 3	Habitat Tree - One or more large hollows possibly suitable for black cockatoos
Proposed Disturbance Area	Rank 4	Black Cockatoo Hollow
Mine Voids	Rank 5	Hollow to be retained
Shallow Disturbance <2m	Trees to be retained	
	Rank 3	
	Rank 4	
	Rank 5	



	Yalyalup Northern Extension	
	Section 40AA/ EPBC 2024-9870 Potential Black Cockatoo Hollows - Area 1	
	Scale: 1:7,500	Datum: GDA2020 Projection: MGA Zone 50
Yalyalup Mineral Sands Project		Figure: 6-2a
		8/01/2025



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Mine Voids
- Shallow Disturbance <2m

Black Cockatoo Potential Hollow

Trees to be removed

- Rank 3
- Rank 4
- Rank 5

Trees to be retained

- Rank 3
- Rank 4
- Rank 5

Previously Approved (Existing)

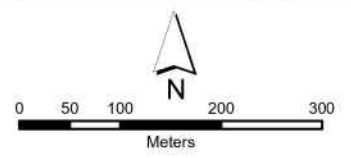
- Habitat Tree - No hollows seen (To Be Removed)
- Habitat Tree - One or more possible small/medium hollows
- Habitat Tree - One or more possible small/medium hollows (To Be Removed)

Black Cockatoo Hollow

- Hollow to be retained

Regional Cadastre

- Boundaries



Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870
Potential Black Cockatoo Hollows - Area 2

Scale 1:7,500	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3
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Figure: 6-2b	8/01/2025
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6271500

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360500

361000

358500

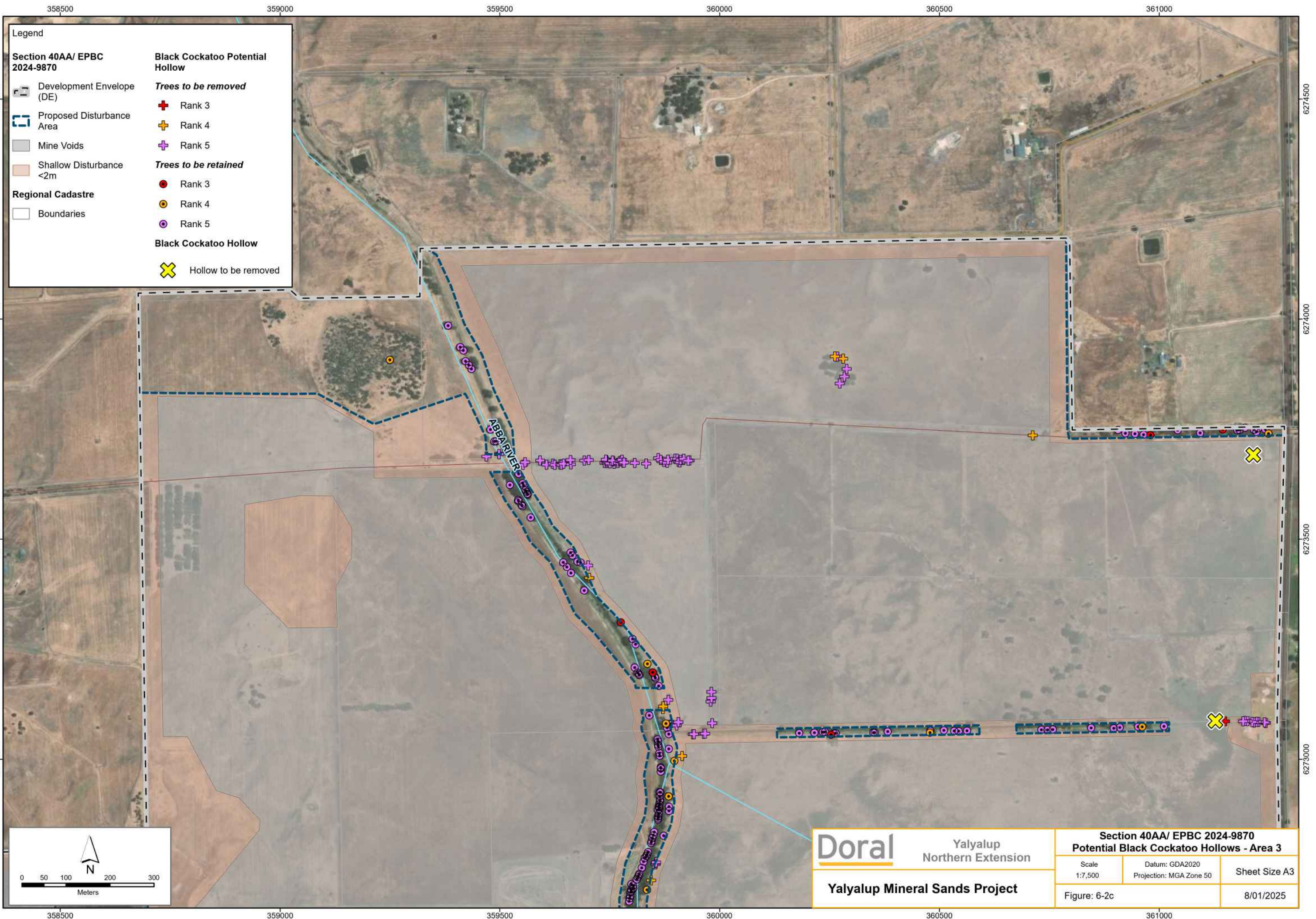
359000

359500

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360500

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Legend

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Disturbance Area
- Mine Voids
- Shallow Disturbance <2m

Regional Cadastre

- Boundaries

Black Cockatoo Potential Hollow

Trees to be removed

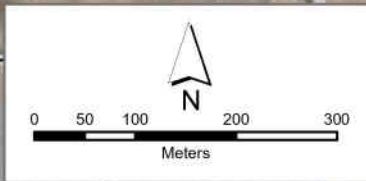
- Rank 3
- Rank 4
- Rank 5

Trees to be retained

- Rank 3
- Rank 4
- Rank 5

Black Cockatoo Hollow

- Hollow to be removed



Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Potential Black Cockatoo Hollows - Area 3		
Scale 1:7,500	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3
Figure: 6-2c		8/01/2025

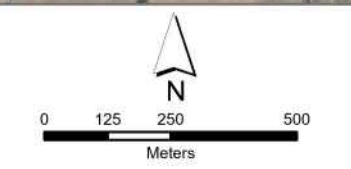
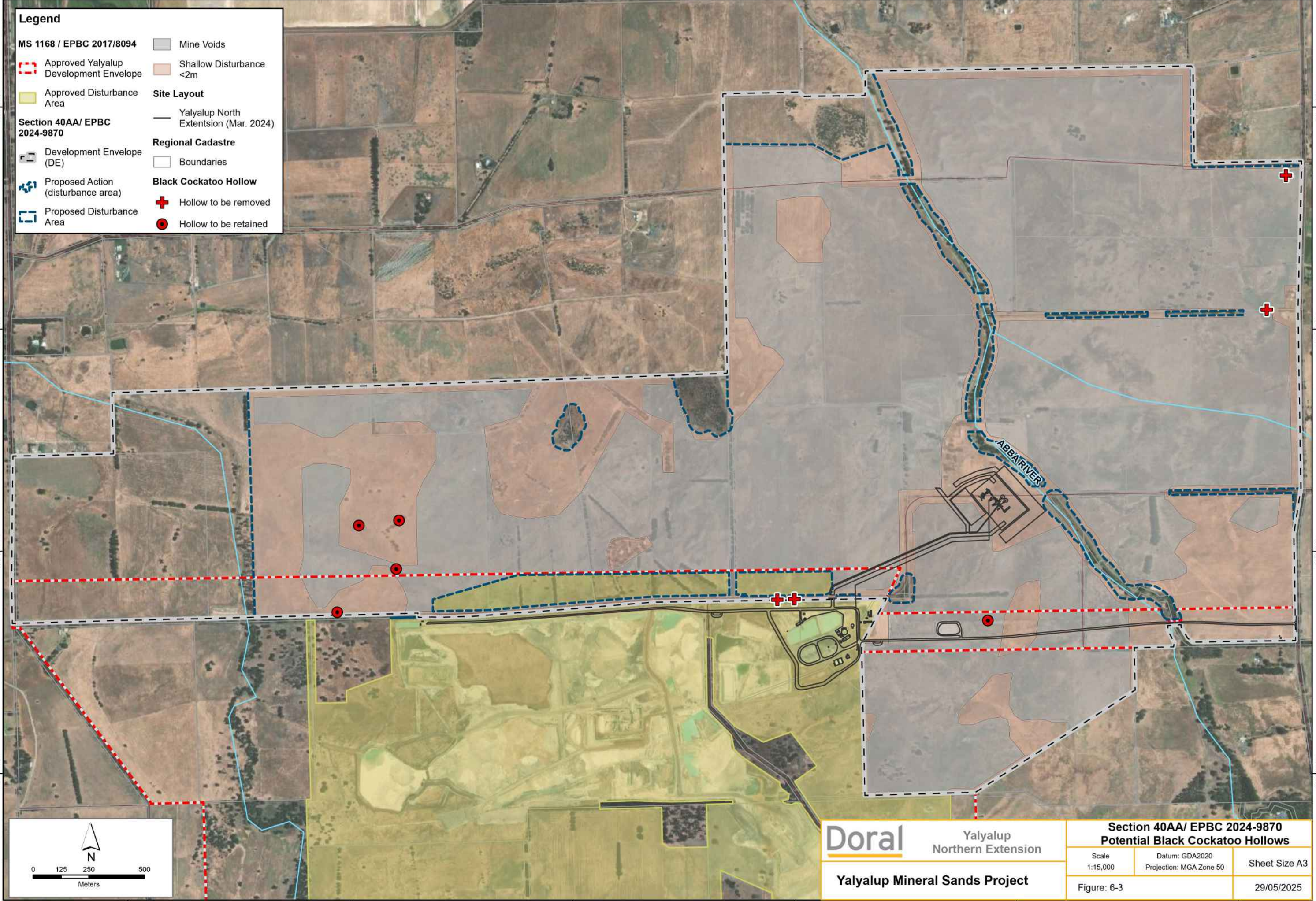
FIGURE 6-3: BC HOLLOWS

356000 357000 358000 359000 360000 361000

- Legend**
- MS 1168 / EPBC 2017/8094**
 - Approved Yalyalup Development Envelope
 - Approved Disturbance Area
 - Section 40AA/ EPBC 2024-9870**
 - Development Envelope (DE)
 - Proposed Action (disturbance area)
 - Proposed Disturbance Area
 - Site Layout**
 - Yalyalup North Extension (Mar. 2024)
 - Regional Cadastre**
 - Boundaries
 - Black Cockatoo Hollow**
 - Hollow to be removed
 - Hollow to be retained
 - Mine Voids
 - Shallow Disturbance <2m

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Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870
Potential Black Cockatoo Hollows

Scale 1:15,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3
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Figure: 6-3	29/05/2025
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356000 357000 358000 359000 360000 361000

FIGURE 6-4: REGIONAL BLACK COCKATOO HABITAT

335000 337500 340000 342500 345000 347500 350000 352500 355000 357500 360000 362500 365000 367500 370000 372500 375000 377500 380000 382500

Legend

Legislated Lands (DBCA)

- National Park
- Nature Reserve
- Section 5(1)(h) Reserve
- State Forest
- Timber Reserve
- Section 34A Freehold

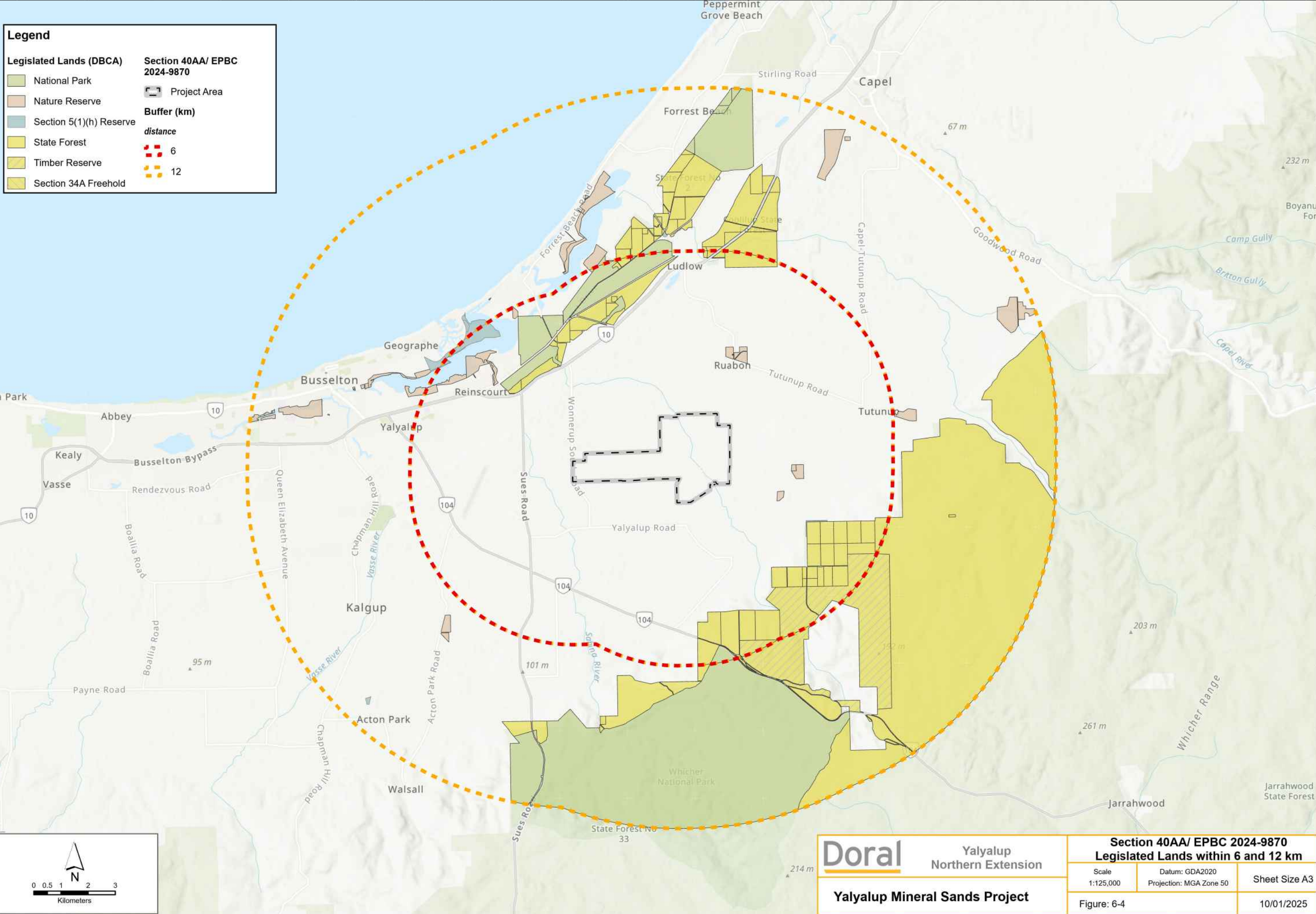
Section 40AA/ EPBC 2024-9870

- Project Area

Buffer (km)

distance

- 6
- 12



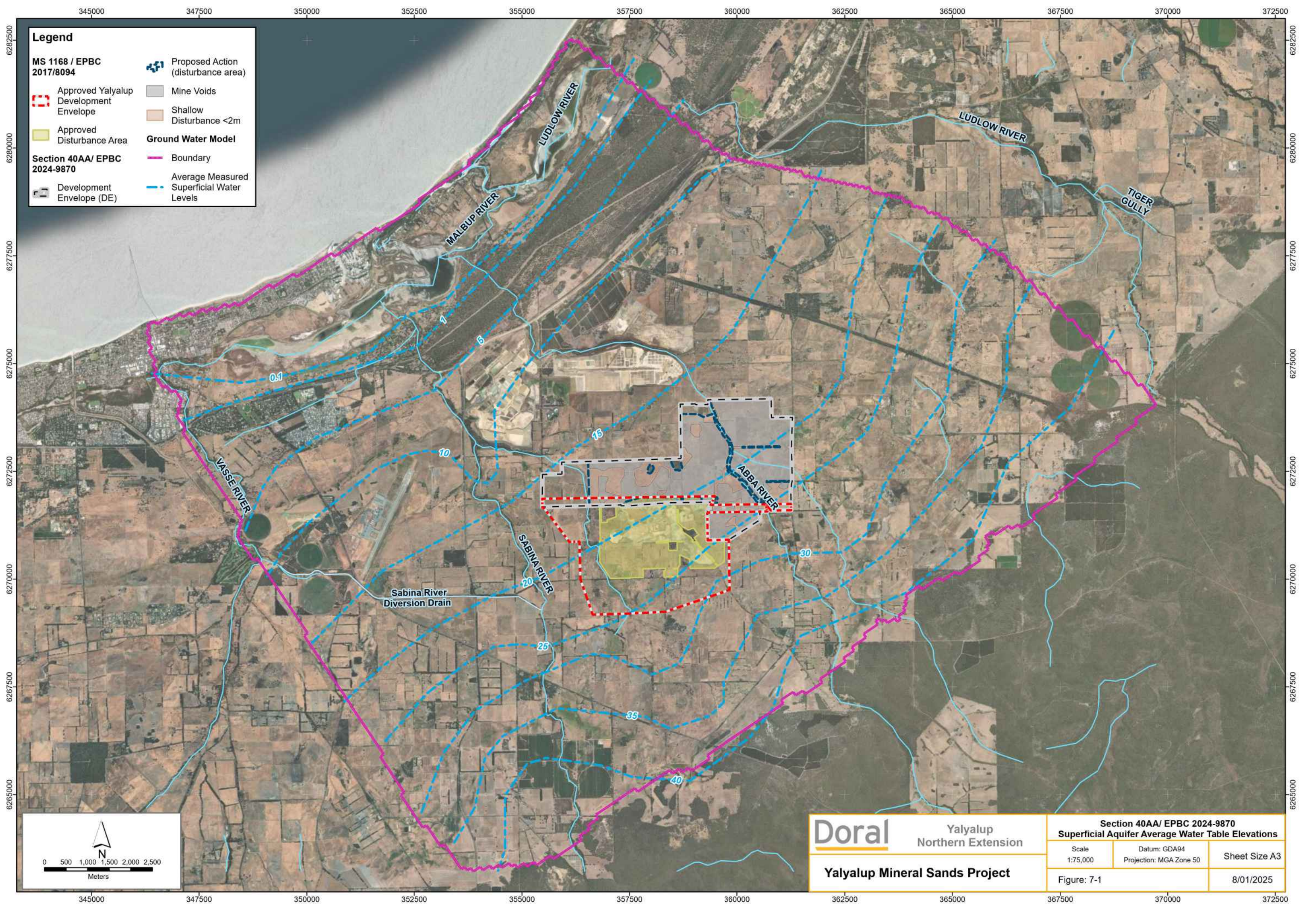
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Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Legislated Lands within 6 and 12 km		
Scale 1:125,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3
Figure: 6-4		10/01/2025

FIGURE 7-1: SUPERFICIAL AQUIFER AVERAGE WATER TABLE
ELEVATION CONTOURS



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

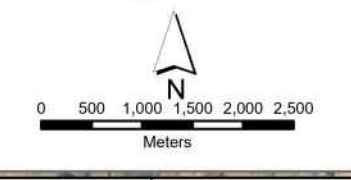
- Development Envelope (DE)

Proposed Action (disturbance area)

- Mine Voids
- Shallow Disturbance <2m

Ground Water Model

- Boundary
- Average Measured Superficial Water Levels

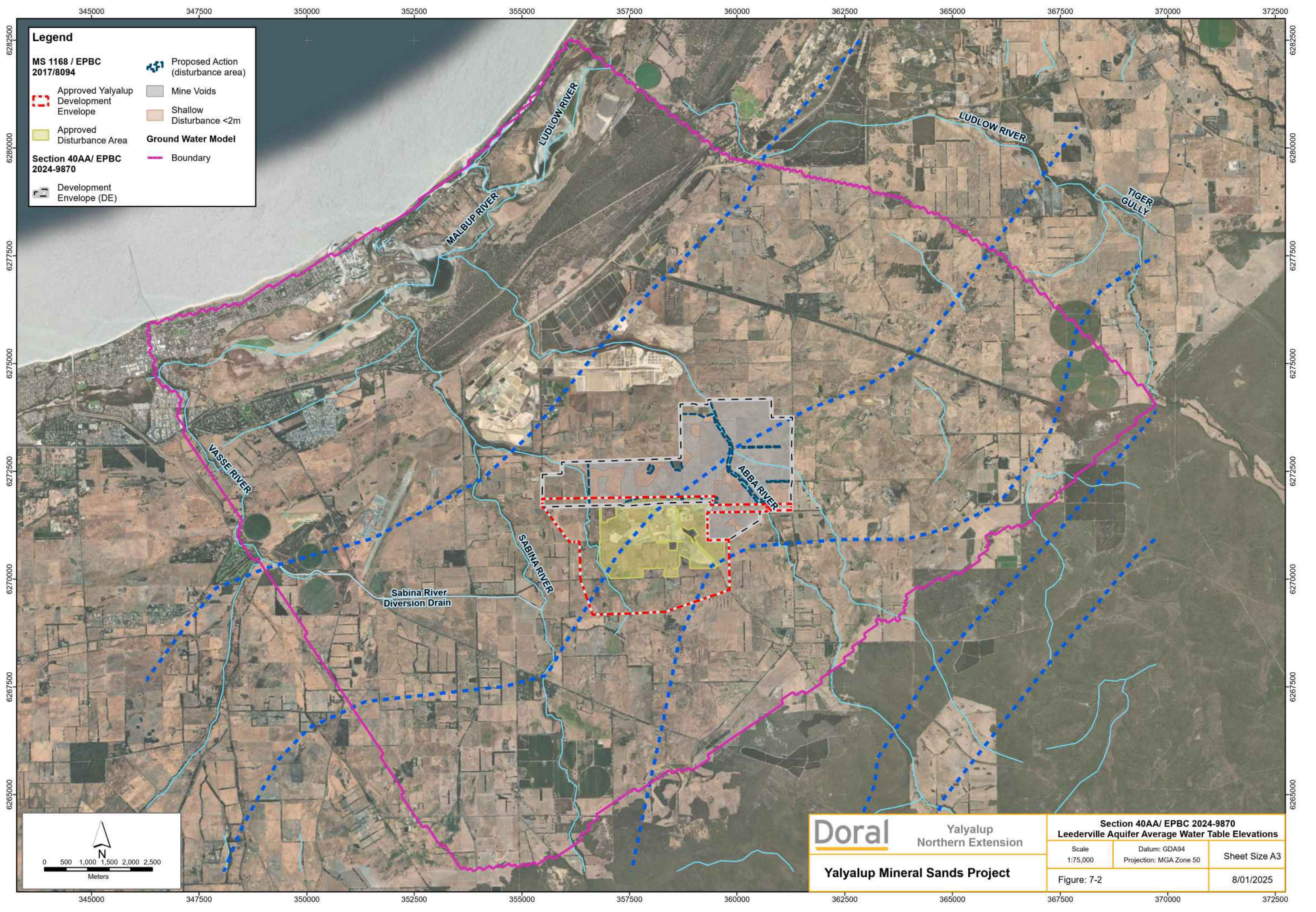


Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Superficial Aquifer Average Water Table Elevations		
Scale 1:75,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-1		8/01/2025

FIGURE 7-2: LEEDERVILLE AQUIFER AVERAGE WATER TABLE
ELEVATION CONTOURS



Legend

MS 1168 / EPBC 2017/8094

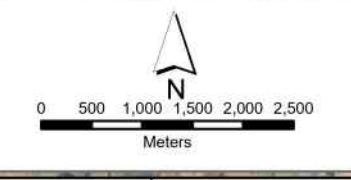
- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m

Ground Water Model

- Boundary

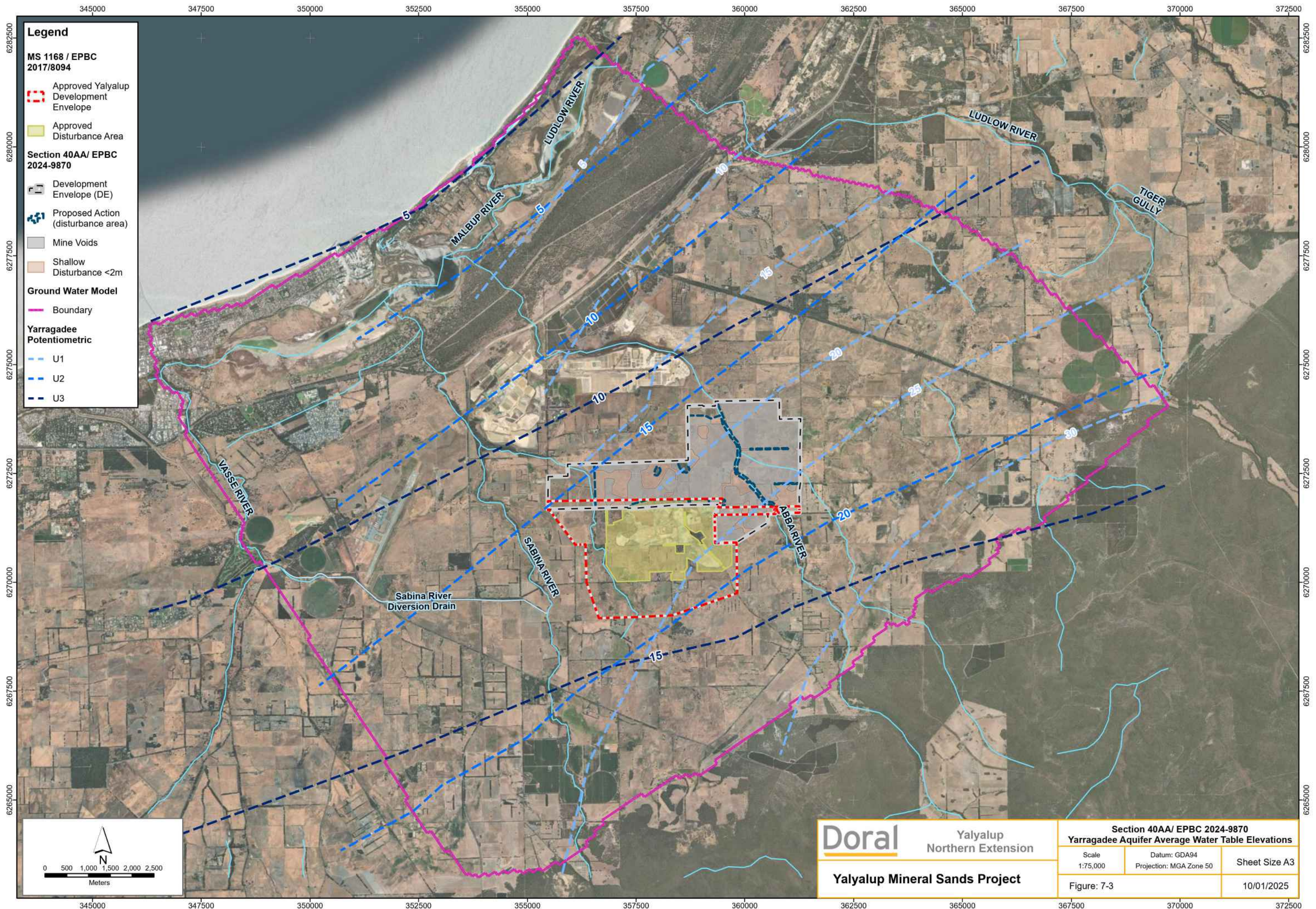


Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Leederville Aquifer Average Water Table Elevations		
Scale 1:75,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-2		8/01/2025

FIGURE 7-3: YARRAGADEE AQUIFER AVERAGE WATER TABLE ELEVATION CONTOURS



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

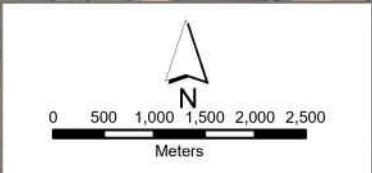
- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m

Ground Water Model

- Boundary

Yarragadee Potentiometric

- U1
- U2
- U3

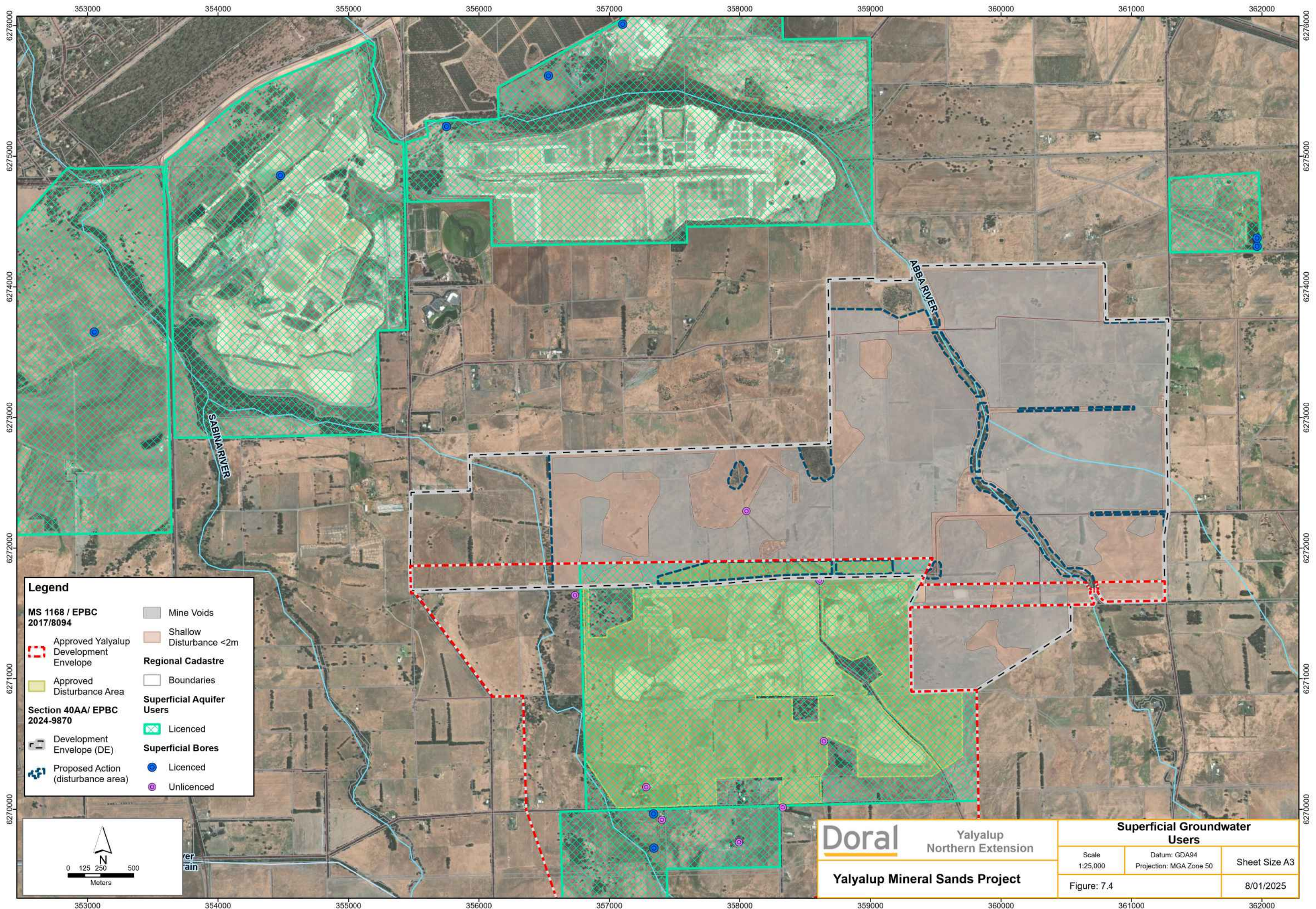


Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

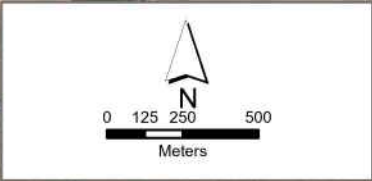
Section 40AA/ EPBC 2024-9870 Yarragadee Aquifer Average Water Table Elevations		
Scale 1:75,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-3		10/01/2025

FIGURE 7-4: SUPERFICIAL GROUNDWATER USERS



Legend

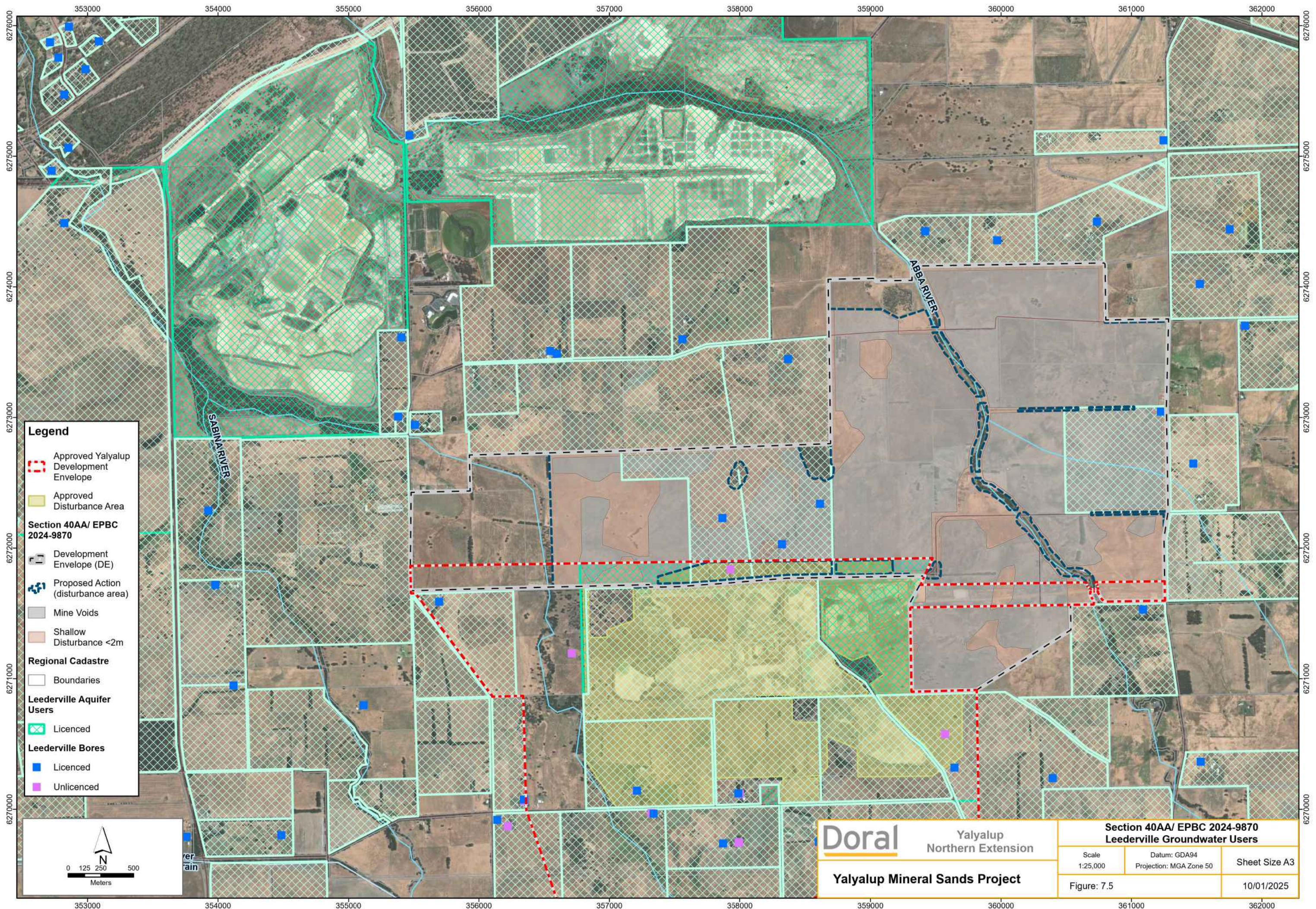
- MS 1168 / EPBC 2017/8094
- Approved Yalyalup Development Envelope
- Approved Disturbance Area
- Section 40AA/ EPBC 2024-9870
- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m
- Regional Cadastre**
- Boundaries
- Superficial Aquifer Users**
- Licensed
- Superficial Bores**
- Licensed
- Unlicensed



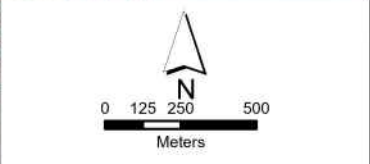
Doral Yalyalup Northern Extension
Yalyalup Mineral Sands Project

Superficial Groundwater Users		
Scale 1:25,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7.4		8/01/2025

FIGURE 7-5: LEEDERVILLE AQUIFER GROUNDWATER USERS



- Legend**
- Approved Yalyalup Development Envelope
 - Approved Disturbance Area
 - Section 40AA/ EPBC 2024-9870**
 - Development Envelope (DE)
 - Proposed Action (disturbance area)
 - Mine Voids
 - Shallow Disturbance <2m
 - Regional Cadastre**
 - Boundaries
 - Leederville Aquifer Users**
 - Licenced
 - Leederville Bores**
 - Licenced
 - Unlicenced



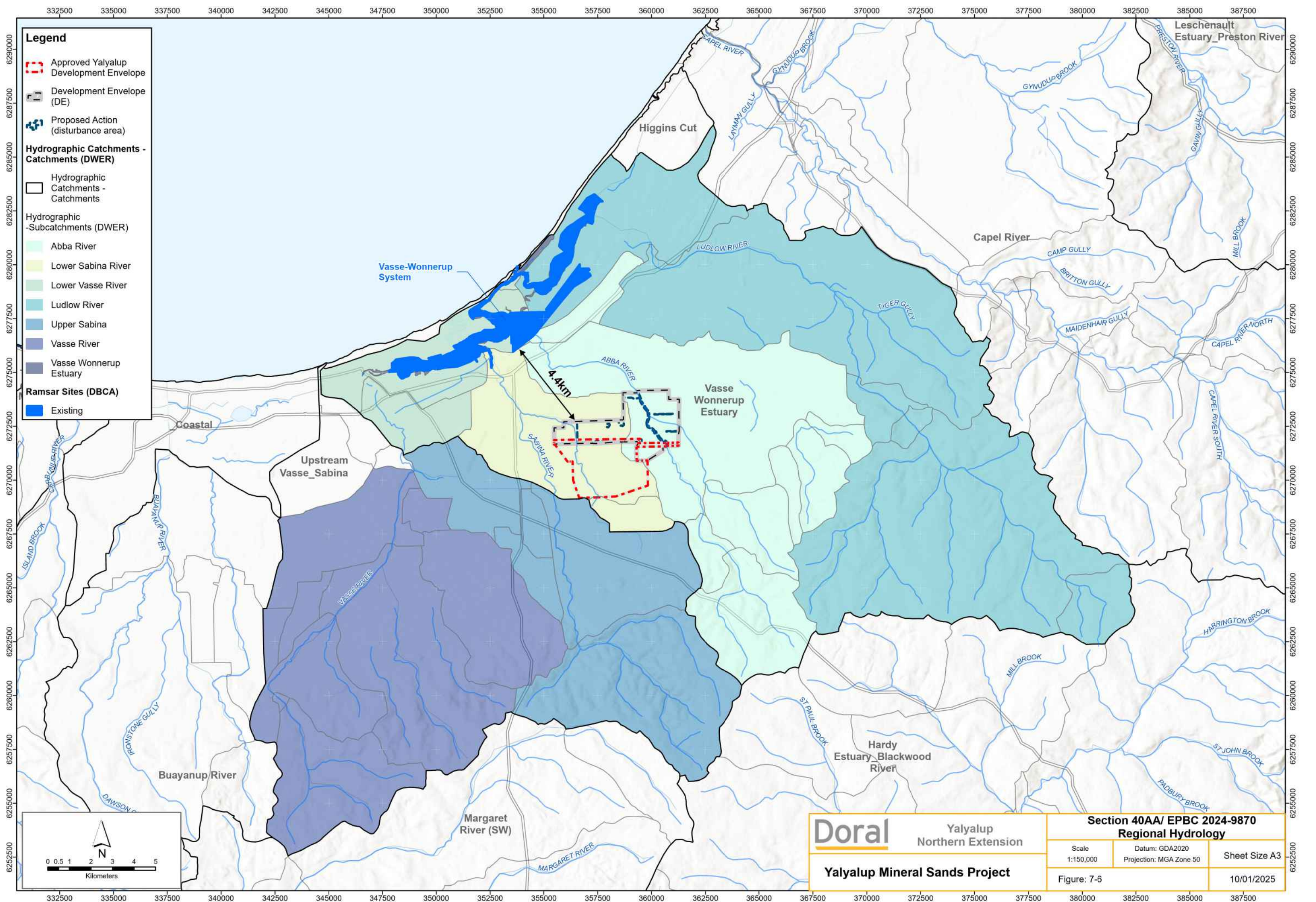
Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

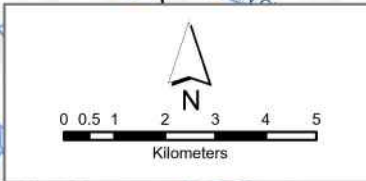
**Section 40AA/ EPBC 2024-9870
Leederville Groundwater Users**

Scale 1:25,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7.5		10/01/2025

FIGURE 7-6: REGIONAL HYDROLOGY

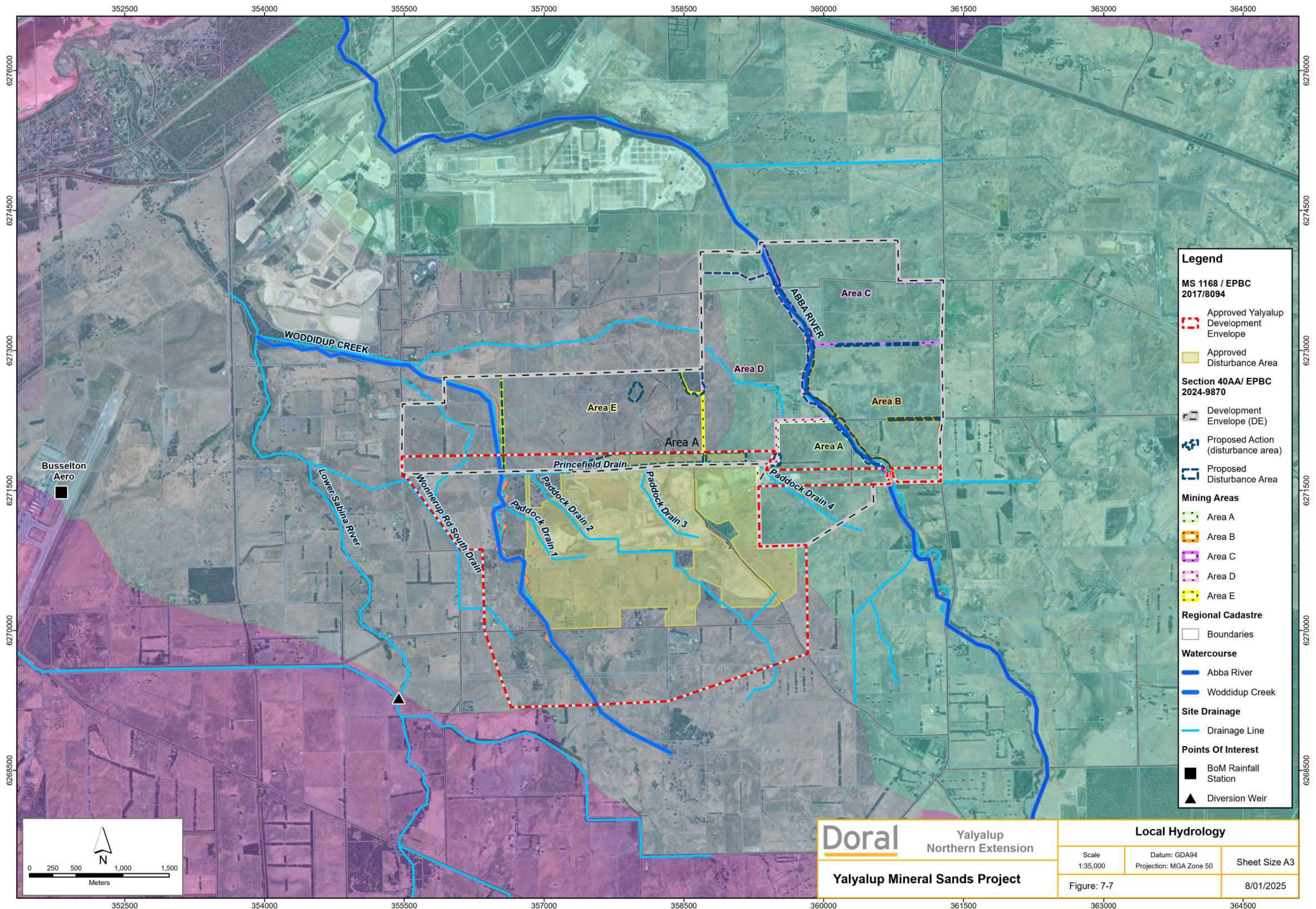


- Legend**
- Approved Yalyalup Development Envelope
 - Development Envelope (DE)
 - + Proposed Action (disturbance area)
- Hydrographic Catchments - Catchments (DWER)**
- Hydrographic Catchments - Catchments
- Hydrographic -Subcatchments (DWER)**
- Abba River
 - Lower Sabina River
 - Lower Vasse River
 - Ludlow River
 - Upper Sabina
 - Vasse River
 - Vasse Wonnerup Estuary
- Ramsar Sites (DBCAs)**
- Existing



	Yalyalup Northern Extension		Section 40AA/ EPBC 2024-9870 Regional Hydrology	
	Scale 1:150,000	Datum: GDA2020 Projection: MGA Zone 50	Sheet Size A3	
	Yalyalup Mineral Sands Project		Figure: 7-6	10/01/2025

FIGURE 7-7: PROJECT HYDROLOGY



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)
- Proposed Disturbance Area

Mining Areas

- Area A
- Area B
- Area C
- Area D
- Area E

Regional Cadastre

- Boundaries

Watercourse

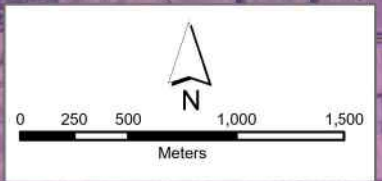
- Abba River
- Woddidup Creek

Site Drainage

- Drainage Line

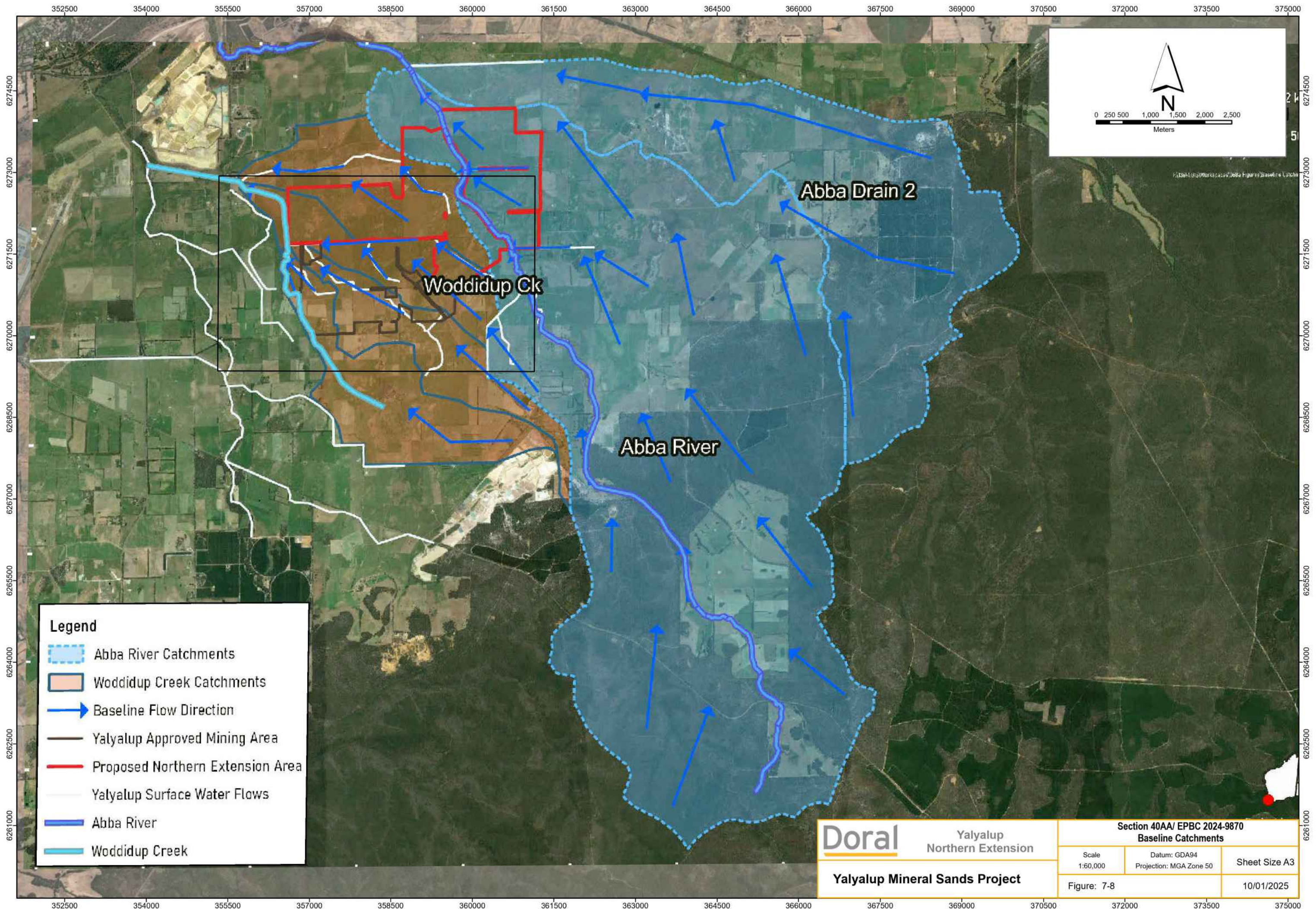
Points Of Interest

- BoM Rainfall Station
- Diversion Weir



<p>Doral</p> <p>Yalyalup Northern Extension</p> <p>Yalyalup Mineral Sands Project</p>	<p>Local Hydrology</p>		
	<p>Scale: 1:35,000</p>	<p>Datum: GDA94 Projection: MGA Zone 50</p>	<p>Sheet Size A3</p>
	<p>Figure: 7-7</p>		<p>8/01/2025</p>

FIGURE 7-8: BASELINE CATCHMENTS

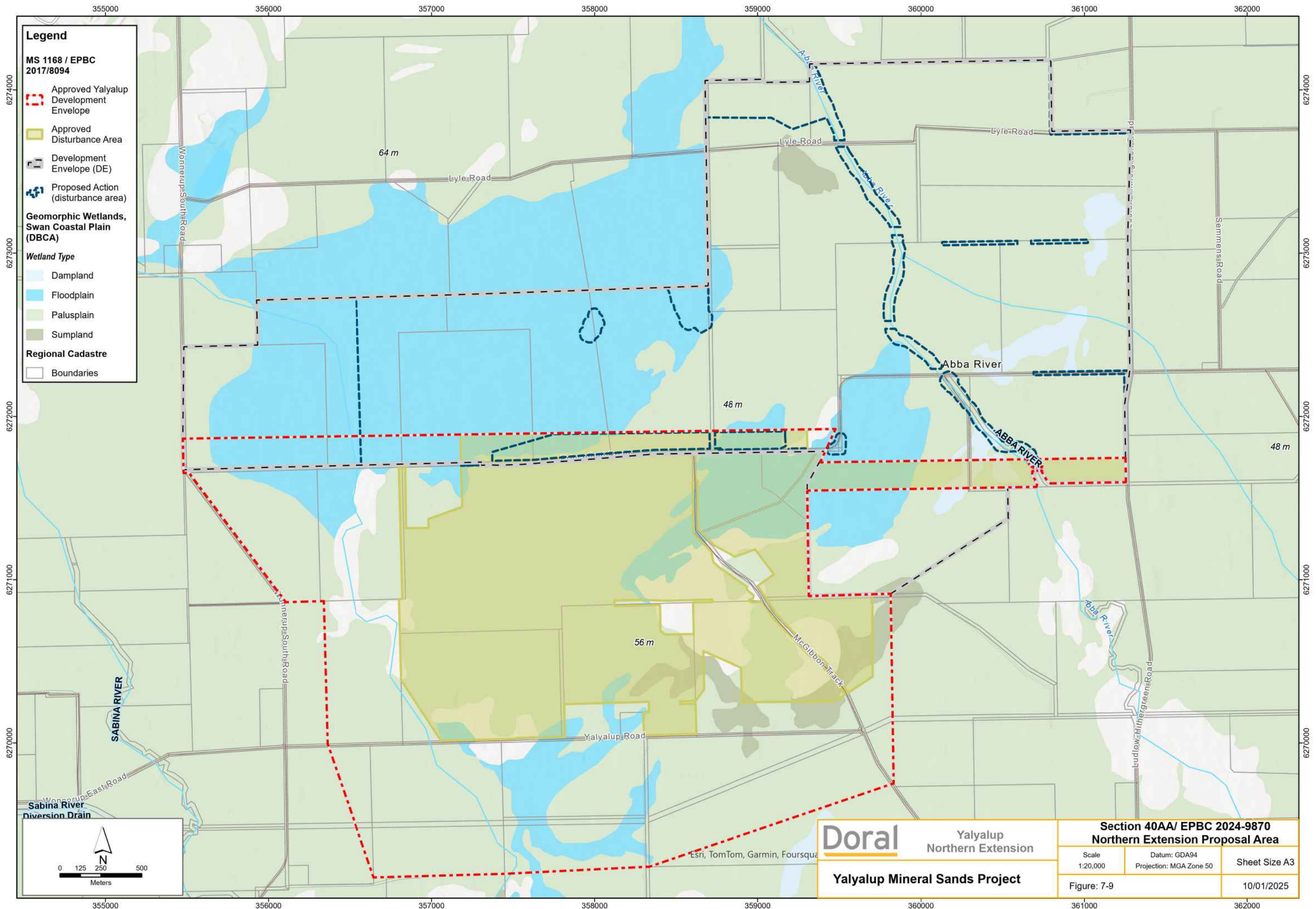


- Legend**
- Abba River Catchments
 - Woddidup Creek Catchments
 - ➔ Baseline Flow Direction
 - Yalyalup Approved Mining Area
 - Proposed Northern Extension Area
 - Yalyalup Surface Water Flows
 - Abba River
 - Woddidup Creek

Doral Yalyalup Northern Extension
Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Baseline Catchments		
Scale 1:60,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-8		10/01/2025

FIGURE 7-9: WETLANDS



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area
- Development Envelope (DE)
- Proposed Action (disturbance area)

Geomorphic Wetlands, Swan Coastal Plain (DBCA)

Wetland Type

- Dampland
- Floodplain
- Palusplain
- Sumpland

Regional Cadastre

- Boundaries

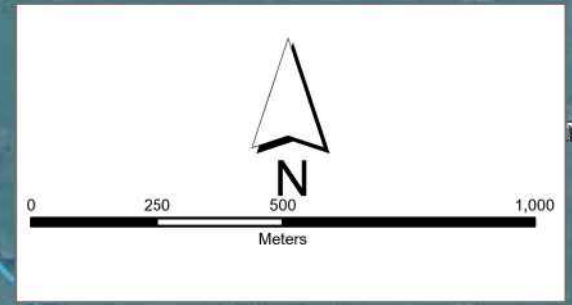
Sabina River Diversion Drain

0 125 250 500
Meters

<p>Doral</p> <p>Yalyalup Northern Extension</p> <p>Yalyalup Mineral Sands Project</p>	<p>Section 40AA/ EPBC 2024-9870 Northern Extension Proposal Area</p>	
	<p>Scale: 1:20,000</p>	<p>Datum: GDA94 Projection: MGA Zone 50</p>
<p>Figure: 7-9</p>		<p>10/01/2025</p>

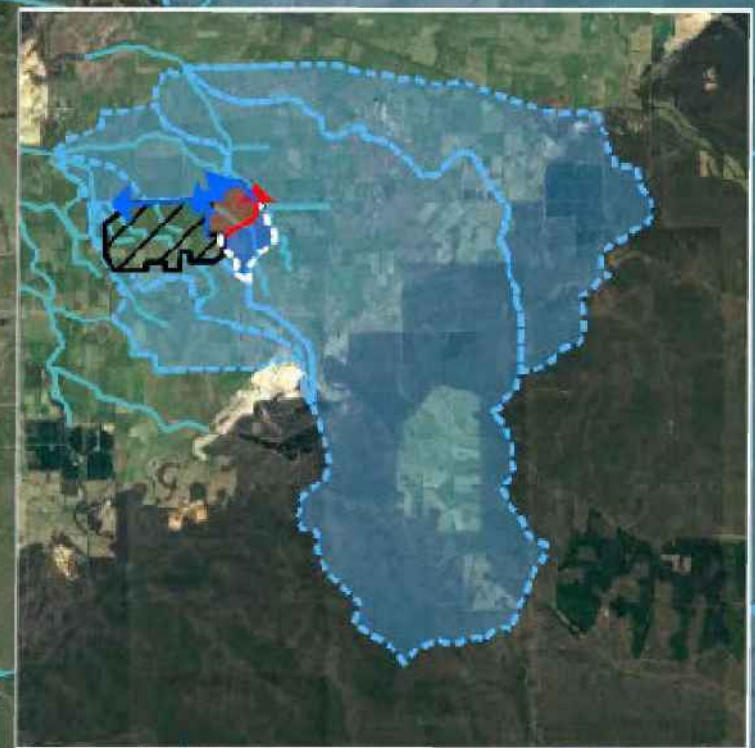
FIGURE 7-10: CATCHMENT REDUCTIONS: AREA A AND THE EXISTING MINE

356000 357000 358000 359000 360000 361000



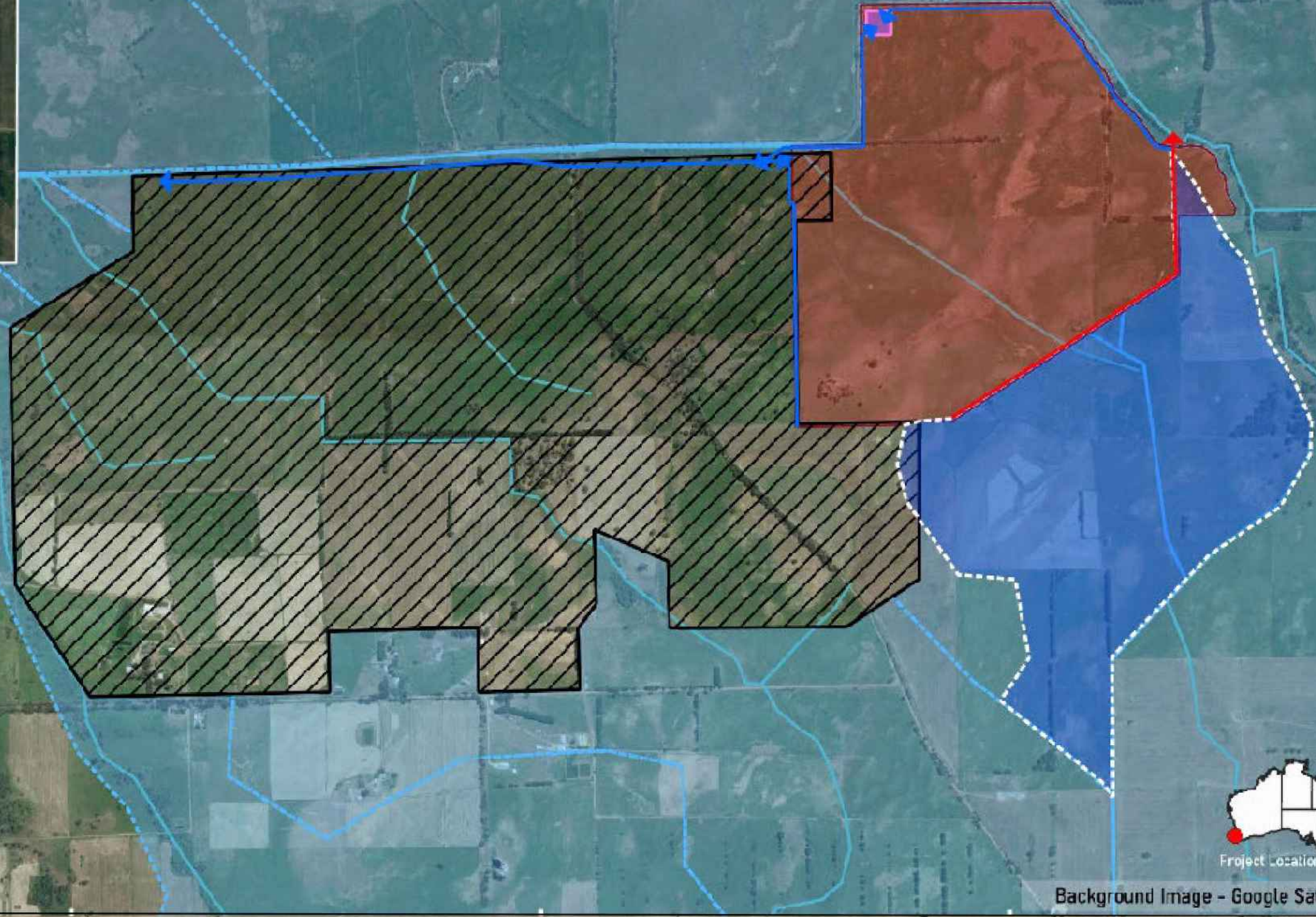
6272000
6271000
6270000
6269000

6272000
6271000
6270000
6269000



Legend

- Existing Mine Envelope
- Area A
- Area A Catchments
- Drain A Catchment
- Existing Surface Water Flows
- Sump
- Mine Water Drain
- Clean Water Diversion



Background Image - Google Satellite

Doral	Yalyalup Northern Extension		Section 40AA/ EPBC 2024-9870 Catchment Reductions Area A and the Existing Mine	
	Scale 1:15,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3	
Yalyalup Mineral Sands Project		Figure: 7-10	10/01/2025	

356000 357000 358000 359000 360000 361000

FIGURE 7-11: CATCHMENT REDUCTIONS: AREAS A AND B

359000

360000

361000

362000

6273000

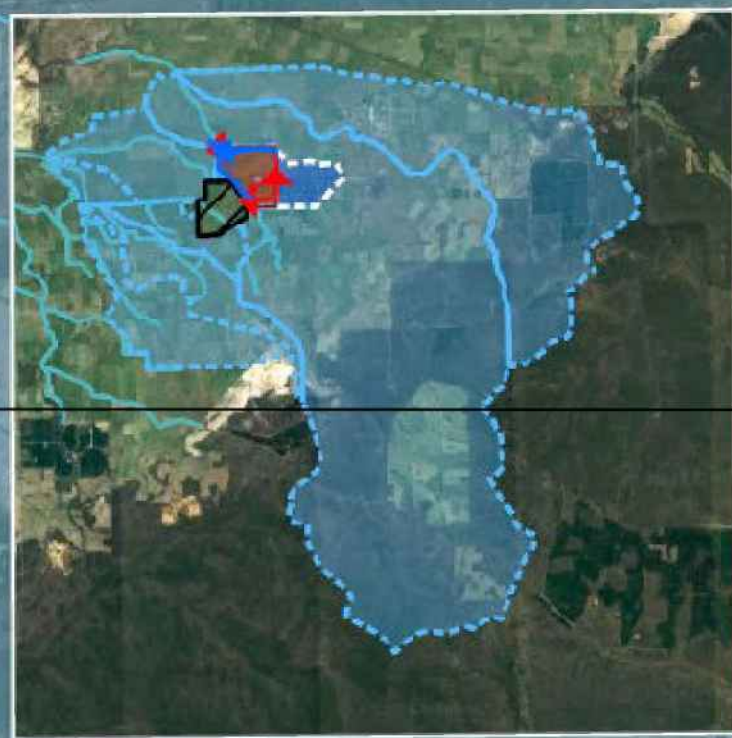
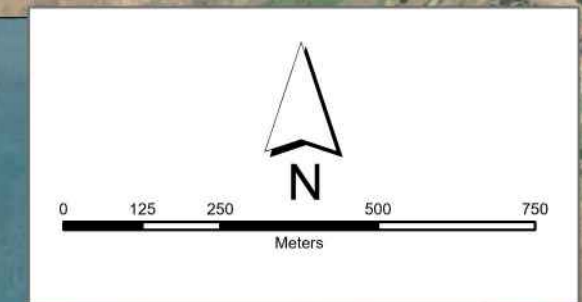
6273000

6272000





6272000

6271000

6271000



Legend

-  Area A
-  Area B
-  Area B Catchments
-  Drain H Catchment
-  Existing Surface Water Flows
-  Sump
-  Mine Water Drain
-  Clean Water Diversion



Project Location

Background Image - Google Satellite

Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870
Catchment Reductions Area A and B

Scale 1:12,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-11		10/01/2025

359000

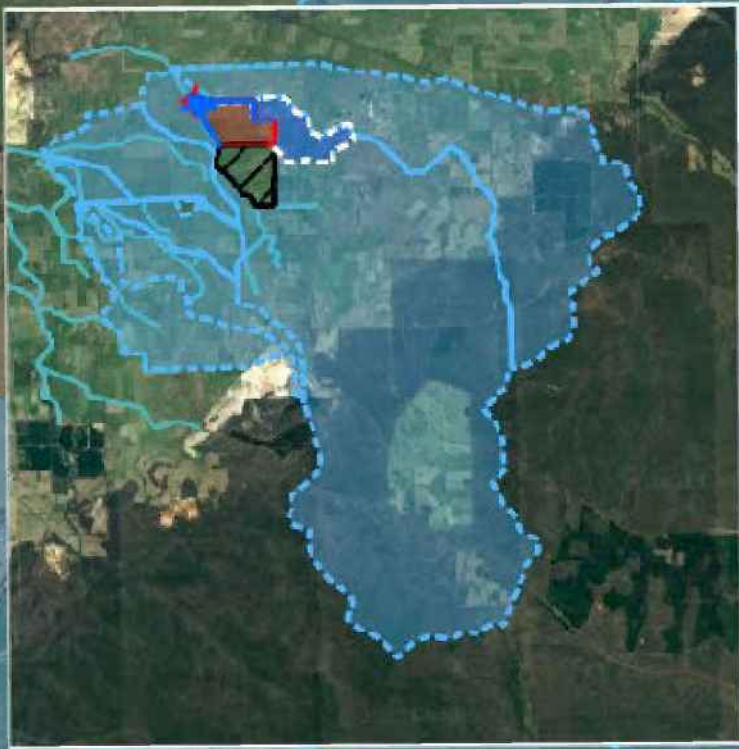
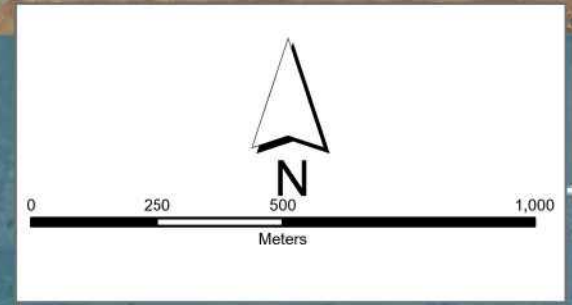
360000

361000

362000

FIGURE 7-12: CATCHMENT REDUCTIONS: AREAS C AND B

358000 359000 360000 361000 362000 363000



6274000
6273000
6272000
6271000

6274000
6273000
6272000
6271000

Legend

- Area B
- Area C
- Area C Catchments
- Drain C Catchments
- Existing Surface Water Flows
- Sump
- Mine Water Drain
- Clean Water Diversion



Background Image - Google Satellite

Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

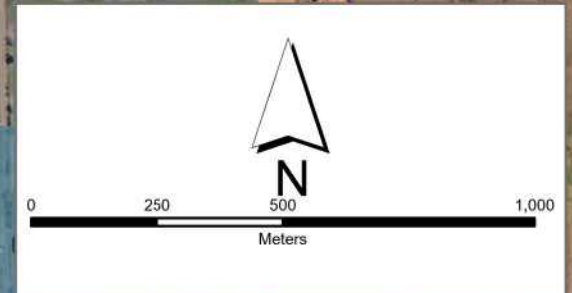
Section 40AA/ EPBC 2024-9870 Catchment Reductions Areas C and B		
Scale 1:15,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-12		10/01/2025

358000 359000 360000 361000 362000 363000

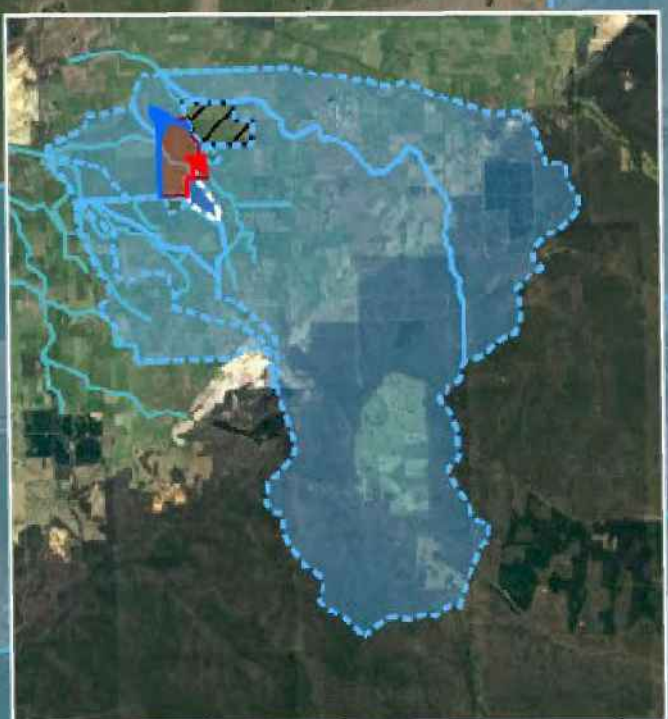
FIGURE 7-13: CATCHMENT REDUCTIONS: AREAS D AND C

357000 358000 359000 360000 361000 362000

6274000
6273000
6272000
6271000



6CA94 / MGA zone 5J
12/19/2023



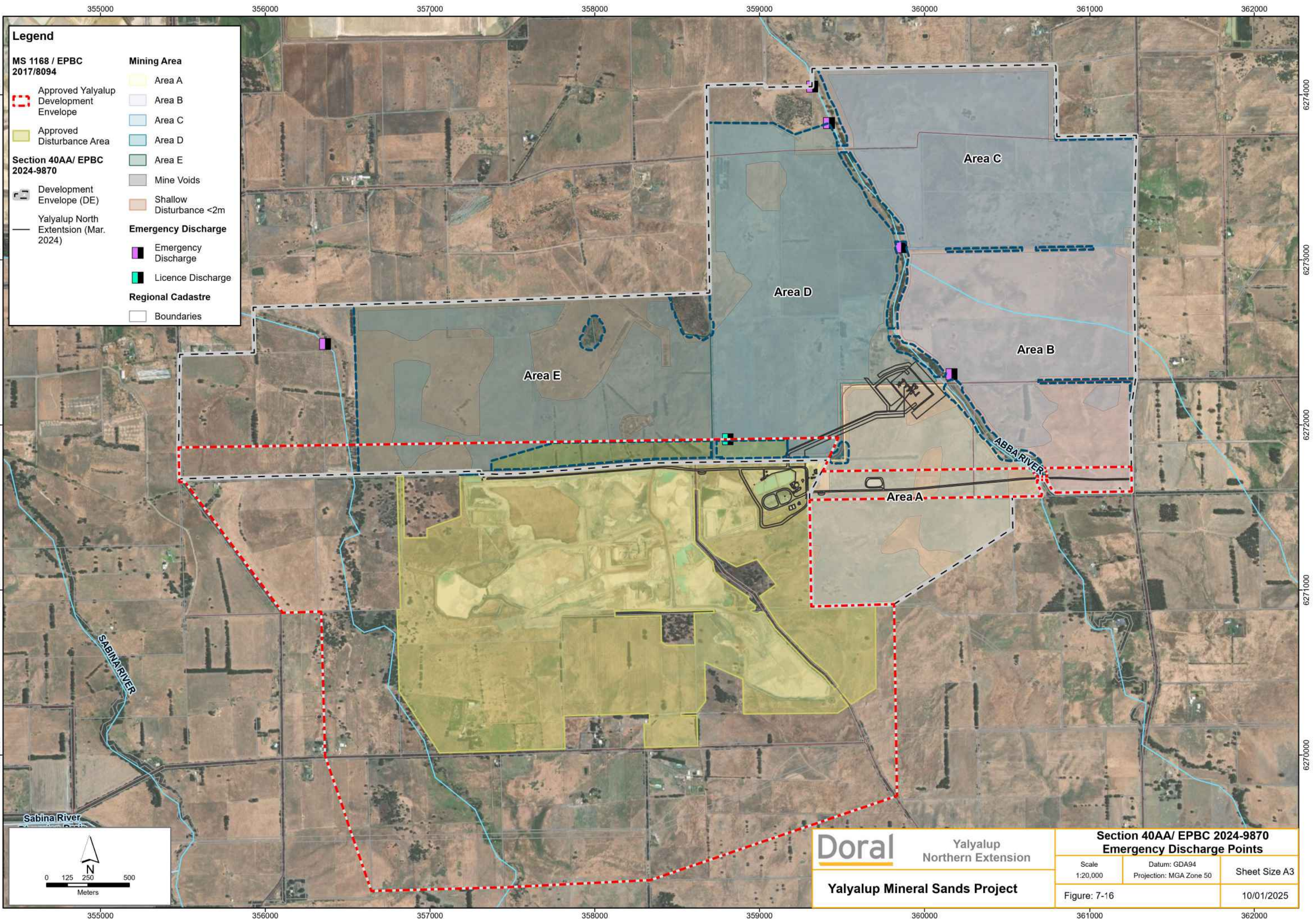
Background Image - Google Satellite

Doral	Yalyalup Northern Extension		Section 40AA/ EPBC 2024-9870 Catchment Reductions Area D and C	
	Scale 1:15,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3	
Yalyalup Mineral Sands Project		Figure: 7-13	10/01/2025	

357000 358000 359000 360000 361000 362000

FIGURE 7-14: CATCHMENT REDUCTIONS DUE TO ACTIVE AREAS E AND D

FIGURE 7-15: DISCHARGE LOCATIONS



Legend

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Yalyalup North Extension (Mar. 2024)

Mining Area

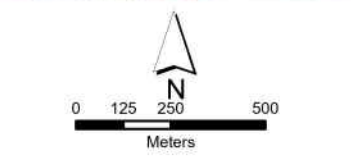
- Area A
- Area B
- Area C
- Area D
- Area E
- Mine Voids
- Shallow Disturbance <2m

Emergency Discharge

- Emergency Discharge
- Licence Discharge

Regional Cadastre

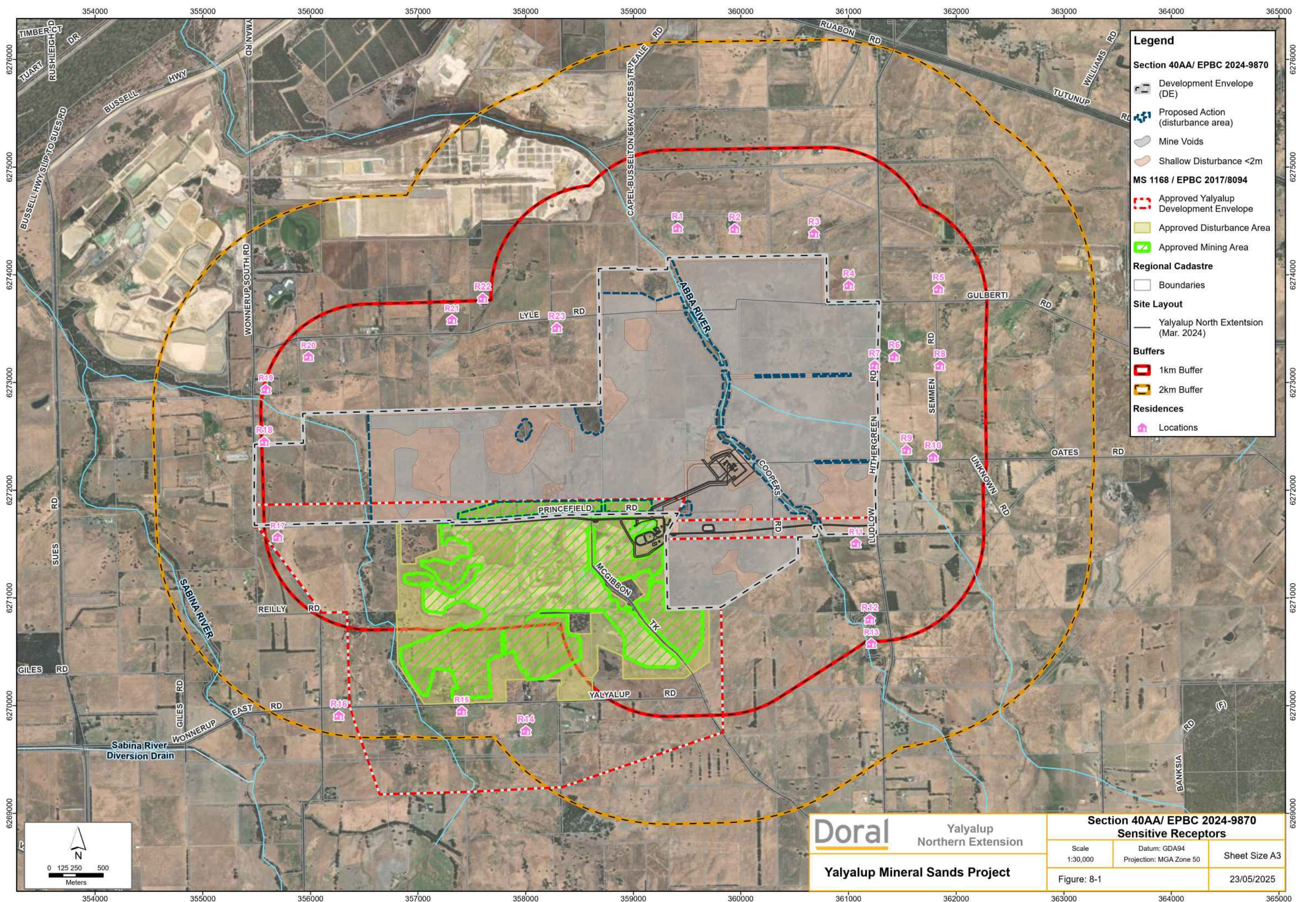
- Boundaries



Doral Yalyalup Northern Extension
Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Emergency Discharge Points		
Scale 1:20,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 7-16		10/01/2025

FIGURE 8-1: RESIDENCES



Legend

Section 40AA/ EPBC 2024-9870

- Development Envelope (DE)
- Proposed Action (disturbance area)
- Mine Voids
- Shallow Disturbance <2m

MS 1168 / EPBC 2017/8094

- Approved Yalyalup Development Envelope
- Approved Disturbance Area
- Approved Mining Area

Regional Cadastre

- Boundaries

Site Layout

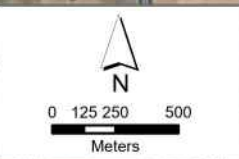
- Yalyalup North Extension (Mar. 2024)

Buffers

- 1km Buffer
- 2km Buffer

Residences

- Locations



Doral Yalyalup Northern Extension

Yalyalup Mineral Sands Project

Section 40AA/ EPBC 2024-9870 Sensitive Receptors

Scale 1:30,000	Datum: GDA94 Projection: MGA Zone 50	Sheet Size A3
Figure: 8-1		23/05/2025