Appendix B – Threatened flora flowering period

Key to table

Flora Group 1
Flora Group 2

EPBC	Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*
VROTS	DELWP Advisory list of rare or threatened plants in Victoria
FFG	*Flora and Fauna Guarantee Act 1988*
X	Flowering/survey period

Status of species:

CR	Critically Endangered
EN	Endangered
VU	Vulnerable
L	Listed as threatened under the FFG Act
e	Endangered in Victoria
v	Vulnerable in Victoria

Scientific Name	Common Name	EPBC	VROTS	FFG	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Senecio macrocarpus	Large-headed Fireweed	VU	e	L	X	X	X									
Diuris palustris	Swamp Diuris		v	L	X	X	X									
Diuris basaltica	Small Golden Moths	EN	e	L		X	X									
Diuris gregaria	Clumping Golden Moths		e	L		X	X									
Caladenia fulva	Tawny Spider-orchid	EN	e	L		X	X									
Thelymitra epipactoides	Metallic Sun-orchid	EN	e	L		X	X	X								
Thelymitra gregaria	Basalt Sun-orchid		e	L		X	X	X								
Allocasuarina luehmannii	Buloke		e	L		X	X	X								
Caladenia audasii	McIvor Spider-orchid	EN	e	L		X	X	X								
Leptorhynchos orientalis	Annual Buttons		e	L		X	X	X								
Xanthorrhoea glauca subsp. *angustifolia*	Grey Grass-tree		e	L		X	X	X	X							
Calotis anthemoides	Cut-leaf Burr-daisy			L		X	X	X	X							
Daviesia laevis	Grampians Bitter-pea	VU	v	L		X	X	X	X							
Glycine latrobeana	Clover Glycine	VU	v	L		X	X	X	X							
Poa sallacustris	Salt-lake Tussock-grass	VU	v	L		X	X	X	X							
Lepidium aschersonii	Spiny Peppercress	VU	e	L		X	X	X	X	X	X	X	X	X		
Grevillea montis-cole subsp. *brevistyla*	Langi Ghiran Grevillea	VU	v	L			X	X								
Prasophyllum suaveolens	Fragrant Leek-orchid	EN	e	L			X	X								
Grevillea floripendula	Ben Major Grevillea	VU	v	L			X	X	X							
Euphrasia scabra	Rough Eyebright		e	L			X	X	X	X	X					
Rutidosis leptorhynchoides	Button Wrinklewort	EN	e	L			X	X	X	X	X					
Dodonaea procumbens	Trailing Hop-bush	VU	v					X	X	X	X					
Lachnagrostis adamsonii	Adamson's Blown-grass	EN	v	L				X	X	X	X					
Ptilotus erubescens	Hairy Tails		v	L				X	X	X	X					
Comesperma polygaloides	Small Milkwort		v	L				X	X	X						

Scientific Name	Common Name	EPBC	VROTS	FFG	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Dianella amoena	Matted Flax-lily	EN	e	L				X	X	X						
Poa physoclina	Wind-blown Tussock-grass		e	L				X	X	X						
Leucochrysum albicans subsp. *tricolor*	White Sunray	EN	e	L				X	X							
Pimelea spinescens subsp. *spinescens*	Spiny Rice-flower	CR	e	L	X								X	X	X	X

Appendix C – Location of targeted flora and vegetation community surveys

Polygon #	Global polygon ID	Road	Round
1	8dde9d33-242b-44cf-b3bc-59e4495a46fb	Coburn Rd	1
2	c563705b-268f-40c3-82aa-a2d819ec829f	Coburn Rd	1
3	da278dc9-b246-40c5-b997-02f07899870b	Coburn Rd	1
4	870b7a42-c3f4-4448-b6ea-6aa4b7c4663a	Parupa Rd	1
5	61f85167-6fa7-4df7-83d8-1df3903fbe5f	Maroona-Glenthompson Rd	1
6	96baa42e-9848-4729-8be4-fa98deae4c8d	Moyston-Dunkeld Rd	1
7	11d37310-c093-4992-9870-7c3e7fbe8451	McCarthys Rd	1, 2
8	8fc99183-9160-44d3-8a3a-38a7201dfbd5	Moyston-Dunkeld Rd	1, V
9	5edb0922-99cc-48bb-89df-52c6aa63b409	Wills Hill Rd	1
10	90127194-f6b9-4a41-8674-caaa23114c8b	Deenicull Creek Rd and Phillips Flat Rd	1
11	830d9c98-1d64-4cb9-9761-91f1bc5abe83	Phillips Flat Rd	1
12	8cbaa988-019a-4c05-b6ce-64b42d183e08	Moyston-Great Western Rd	1
13	9d2b559d-94e6-4161-91fe-0d34a9bf9aa3	Moyston-Great Western Rd	1
14	5e9e4f78-d3a4-4e57-a3db-fae66f656b1c	Cornhill Rd	2, V

1 – Round 1 flora survey, 2 – Round 2 flora survey, V – Vegetation community survey

Appendix D – Location of Golden Sun Moth targeted surveys

Polygon #	Global polygon ID	Road
1	c30f7d97-285a-40b2-bbed-6726368335e9	Churchill Crossing Rd
2	e88ea95d-ae2a-49ee-9ba5-82084aae2e17	Churchill Crossing Rd
3	cd2c1927-66ba-4e82-9450-5bbb16bfa645	Churchill Crossing Rd
4	8b491cb3-3277-4b42-9648-c83b6e4de267	St George Rd
5	65343ddc-48c3-40cf-8af2-de9390eadfd2	St George Rd
6	9f38c90f-6953-45f3-81c9-11b16fda6e85	St George Rd
7	c7aedf04-d9e9-487c-b2cf-e434767f2a24	St George Rd
8	7d065540-4386-4d5f-9b88-0af09d8cc246	St Ethels Rd
9	03115f97-9c02-4096-b8fa-dfafce888b4e	St Ethels Rd
10	2859a161-4978-47be-9685-7f3c34ed2d22	Dobie Rd
11	ceaa68c8-d523-418f-9f17-c0fe89244f45	Hillside Rd
12	5bbc4848-5c26-4c8a-bf9e-6c86f4679e02	Yerrabbin Rd
13	ee580600-ca39-40c6-9b74-a4fe0e04de72	Yerrabbin Rd
14	7f284660-5a76-4f88-bb33-12ec319b28ca	Yerrabbin Rd

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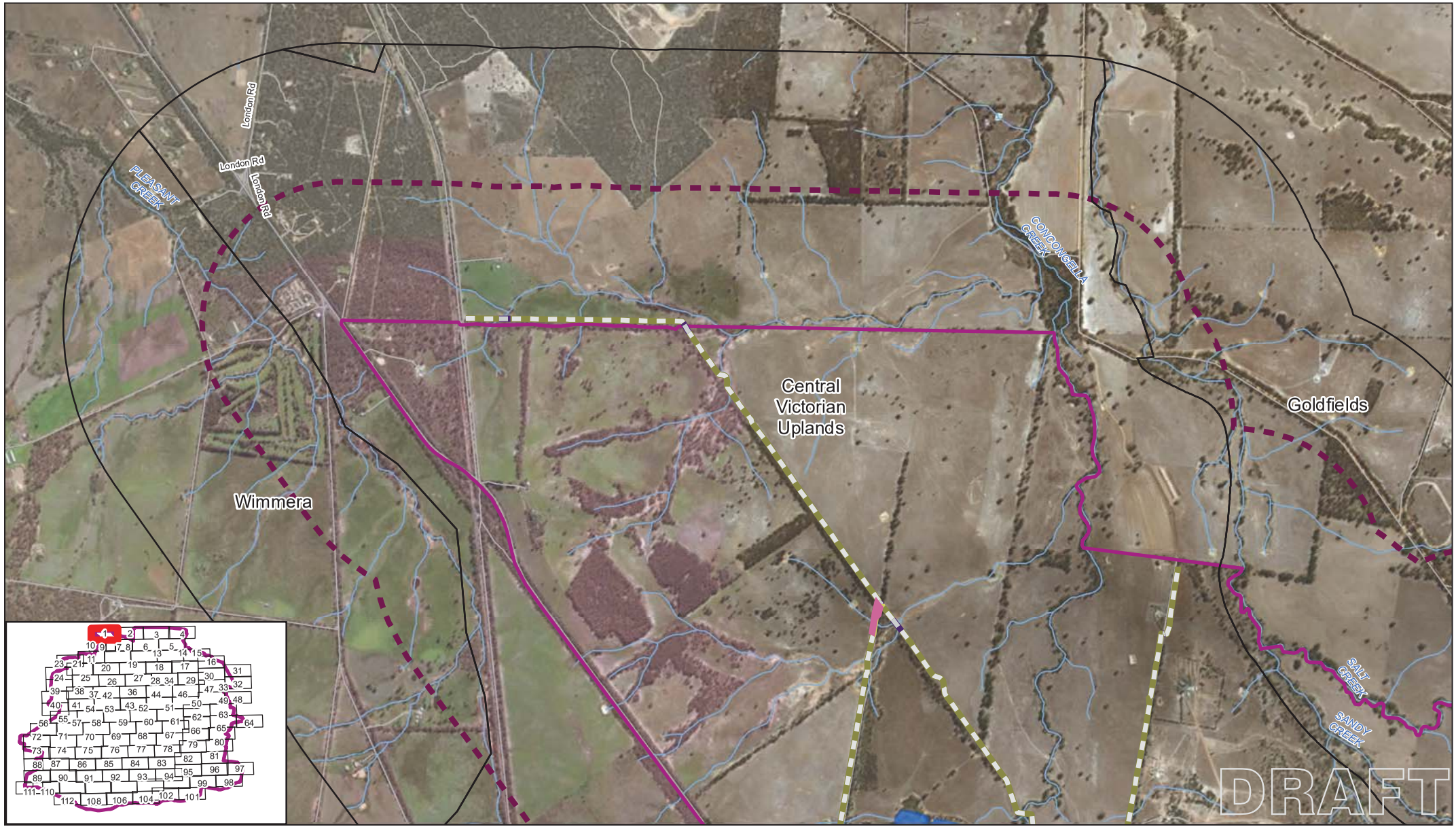
Appendix E – Map-book of native vegetation



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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse
- Stream

Waterbodies
- Swamp

Habitat Zones
- FC HZ1

Pipeline Alignment

Not Assessed
- HDD
- Trench

Assessed
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
Revision	D
Date	13/03/2019

Mapped Native Vegetation

Appendix E

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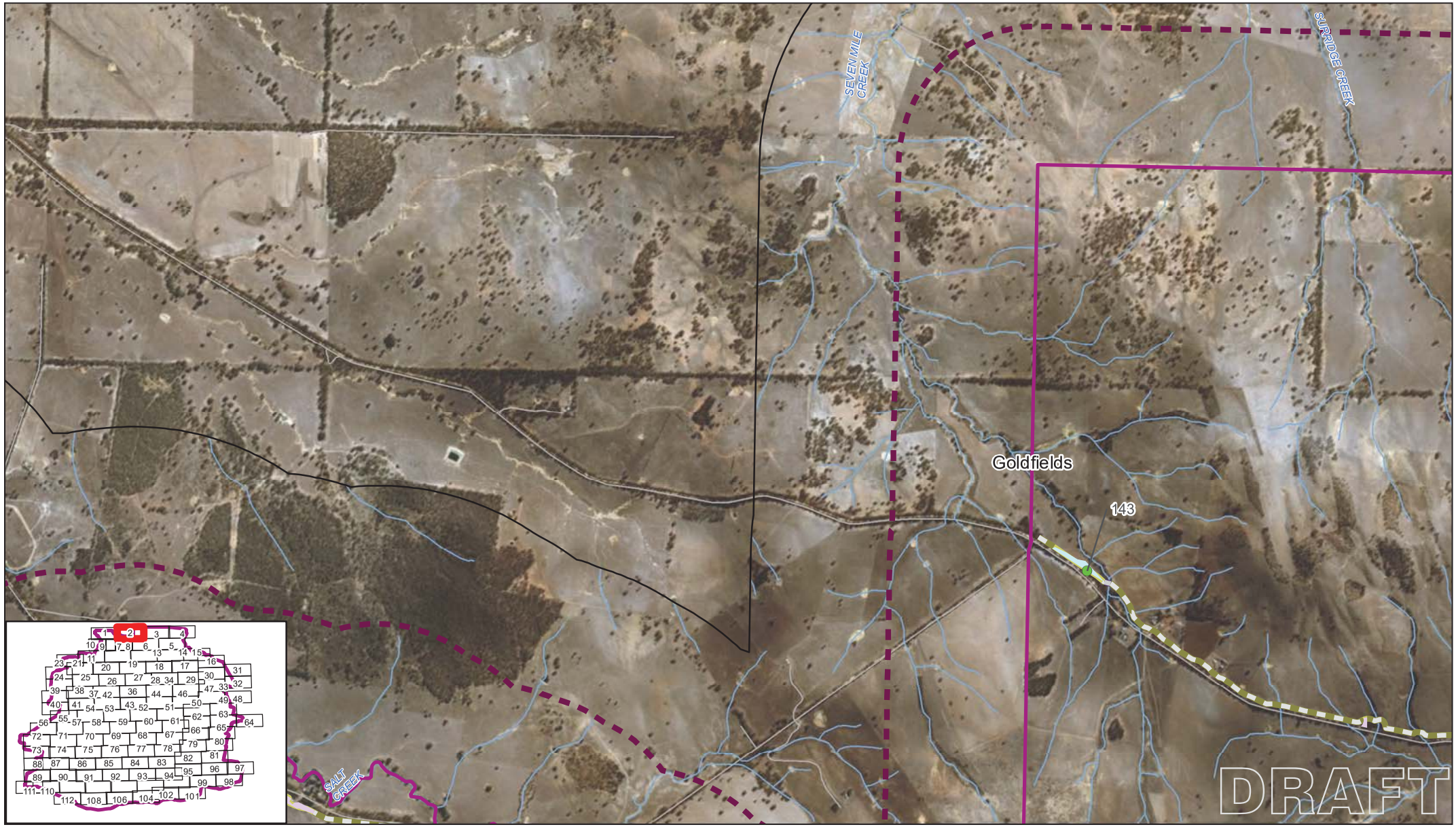

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion
- **Watercourse**
  - Stream
- **Habitat Zones**
  - JH HZ1
  - JH HZ2
- **Pipeline Alignment**
- **Not Assessed**
  - HDD
  - Trench
- **Assessed**
  - HDD
  - Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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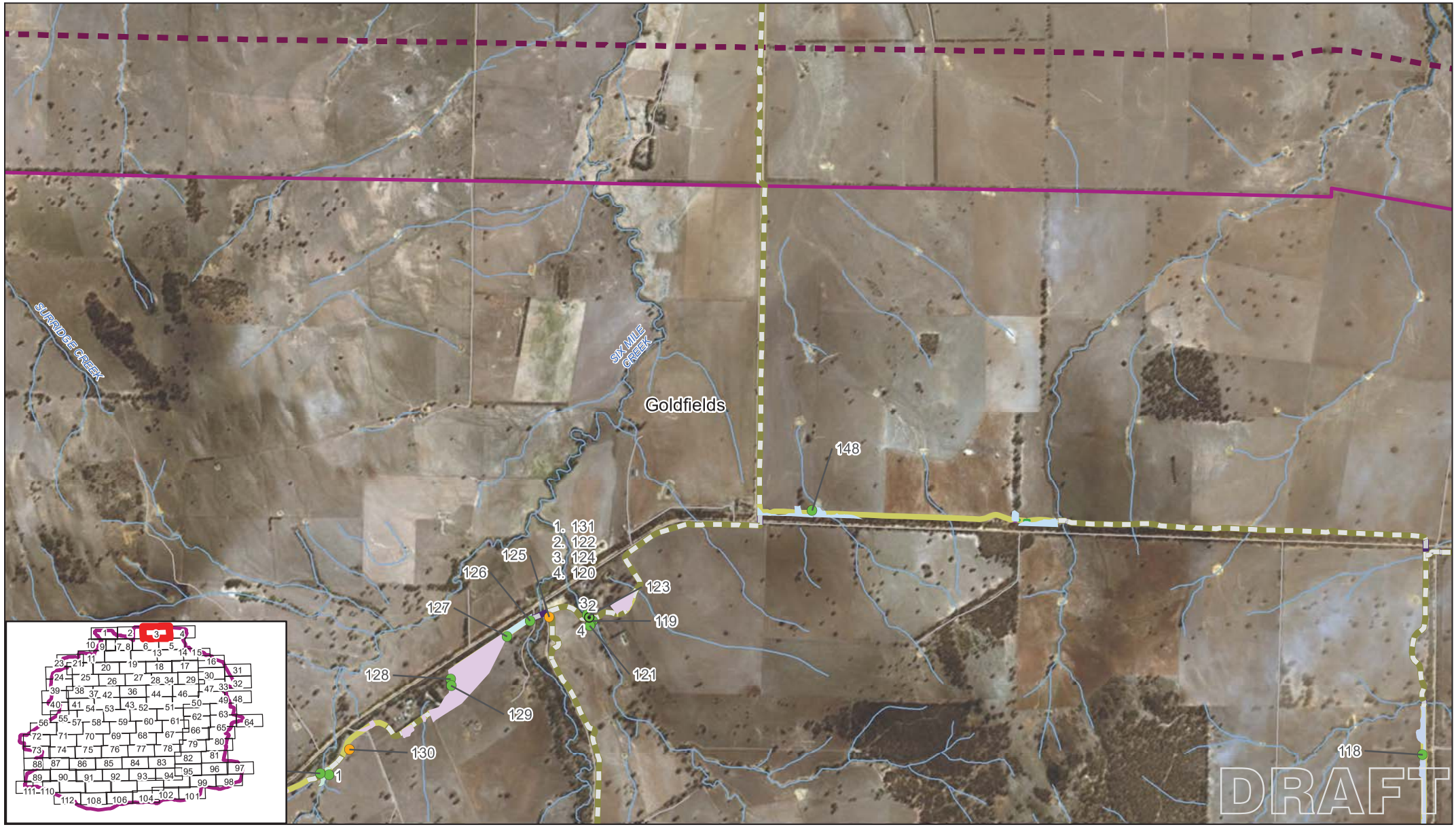

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream

Habitat Zones

- JH HZ1
- JH HZ2
- JH HZ3
- JH HZ4
- JH HZ5

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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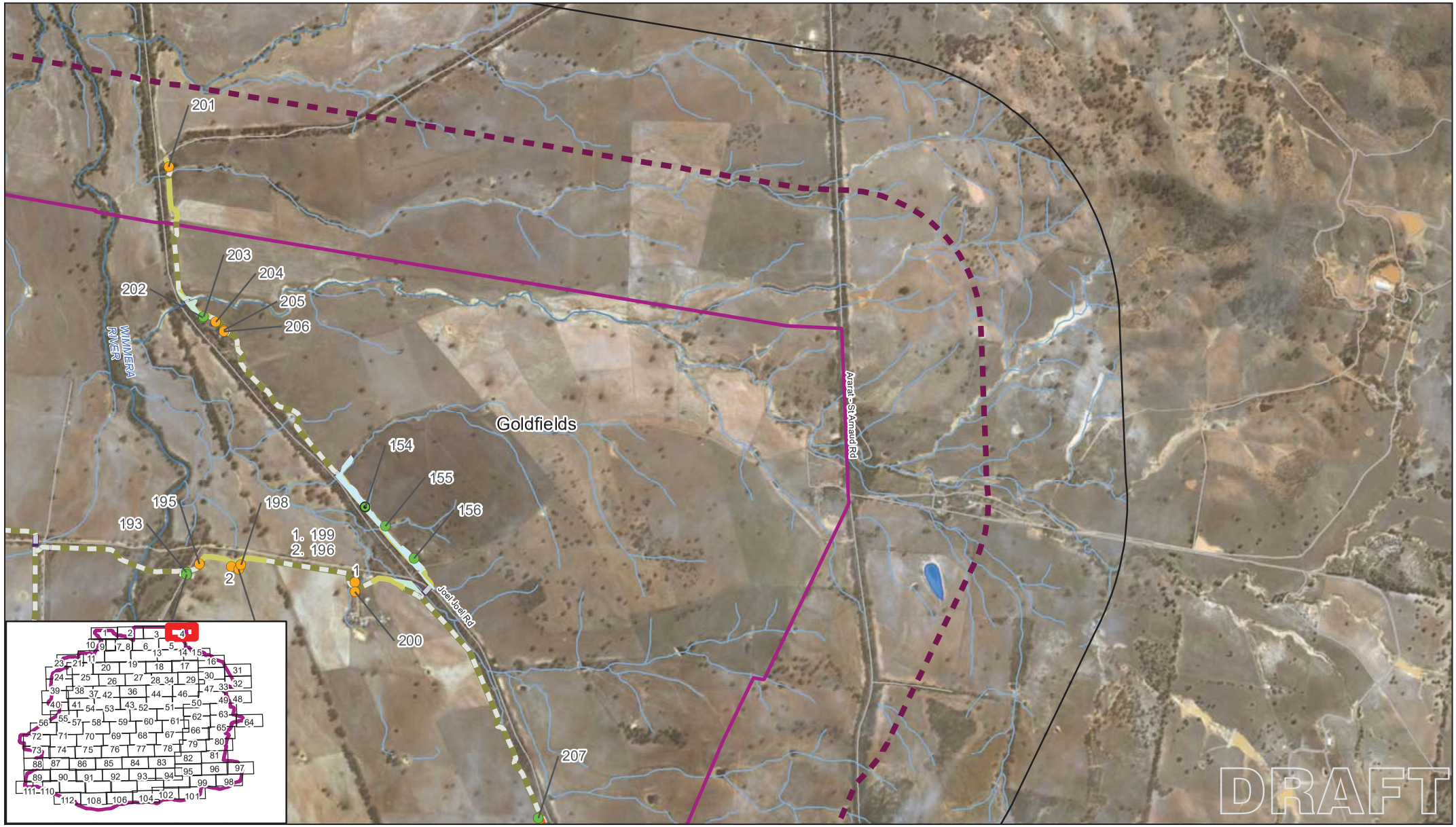

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream

Habitat Zones

- JH HZ1
- JH HZ2
- JH HZ4
- JH HZ5
- JH HZ7

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
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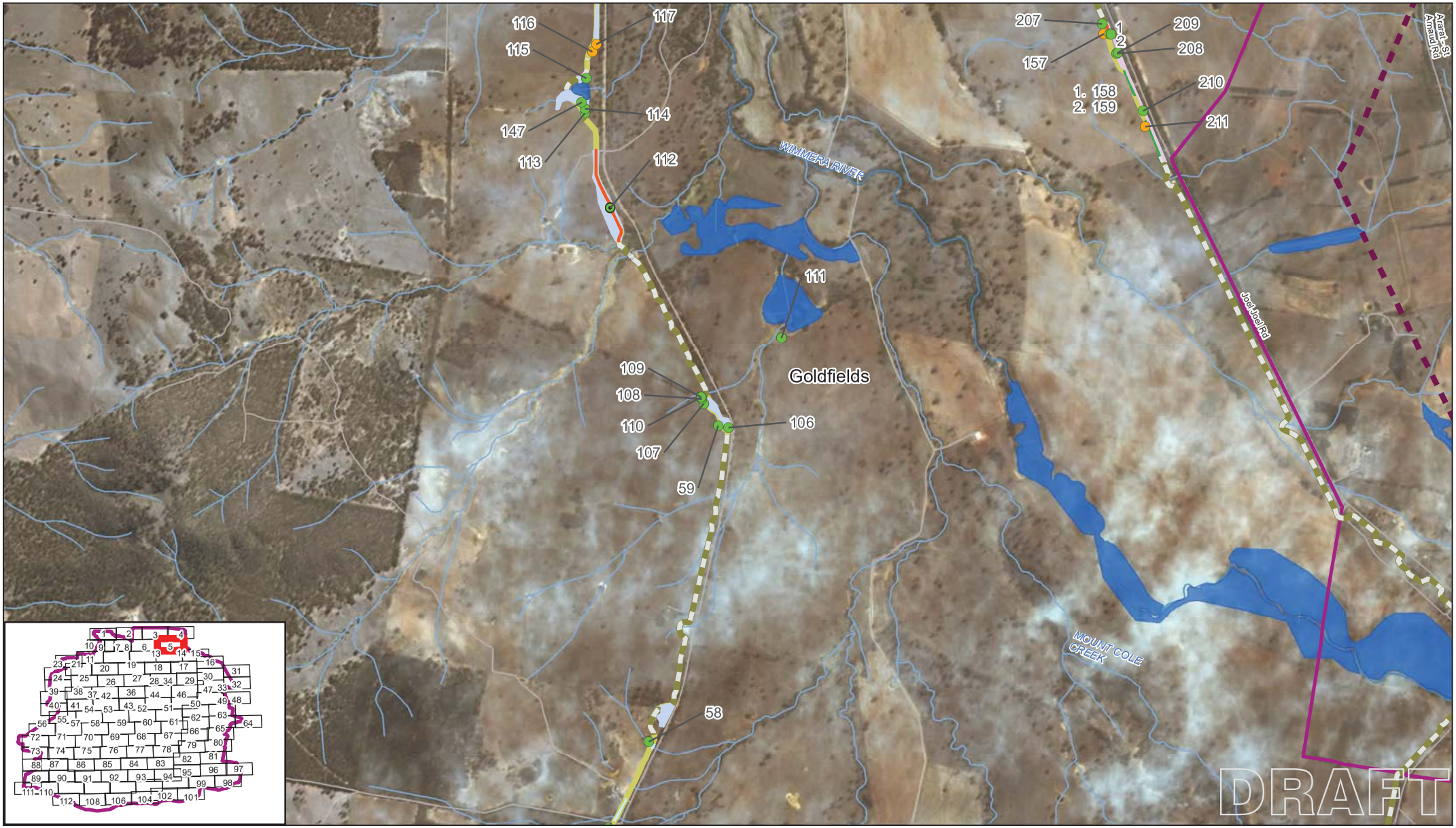

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream

Habitat Zones

- JH HZ1
- JH HZ2
- JH HZ4

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Native Vegetation

Assessed

- HDD
- Trench
- X Native Vegetation

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Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- JH HZ1
- JH HZ2
- JH HZ3

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse
- Stream

Habitat Zones
- FC HZ1
- FC HZ2
- FC HZ2 SW
- JH HZ1
- JH HZ6

Pipeline Alignment

Not Assessed
- HDD
- Trench
- X Impact

Assessed
- HDD
- Trench
- X Impact

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Map Projection: Transverse Mercator
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N

LEGEND

- Canopy Tree
- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse
- Stream

Habitat Zones
- FC HZ1
- FC HZ2
- FC HZ2 SW
- JH HZ1
- JH HZ6

Pipeline Alignment

Not Assessed
- HDD
- Trench
- X Impact

Assessed
- HDD
- Trench
- X Impact

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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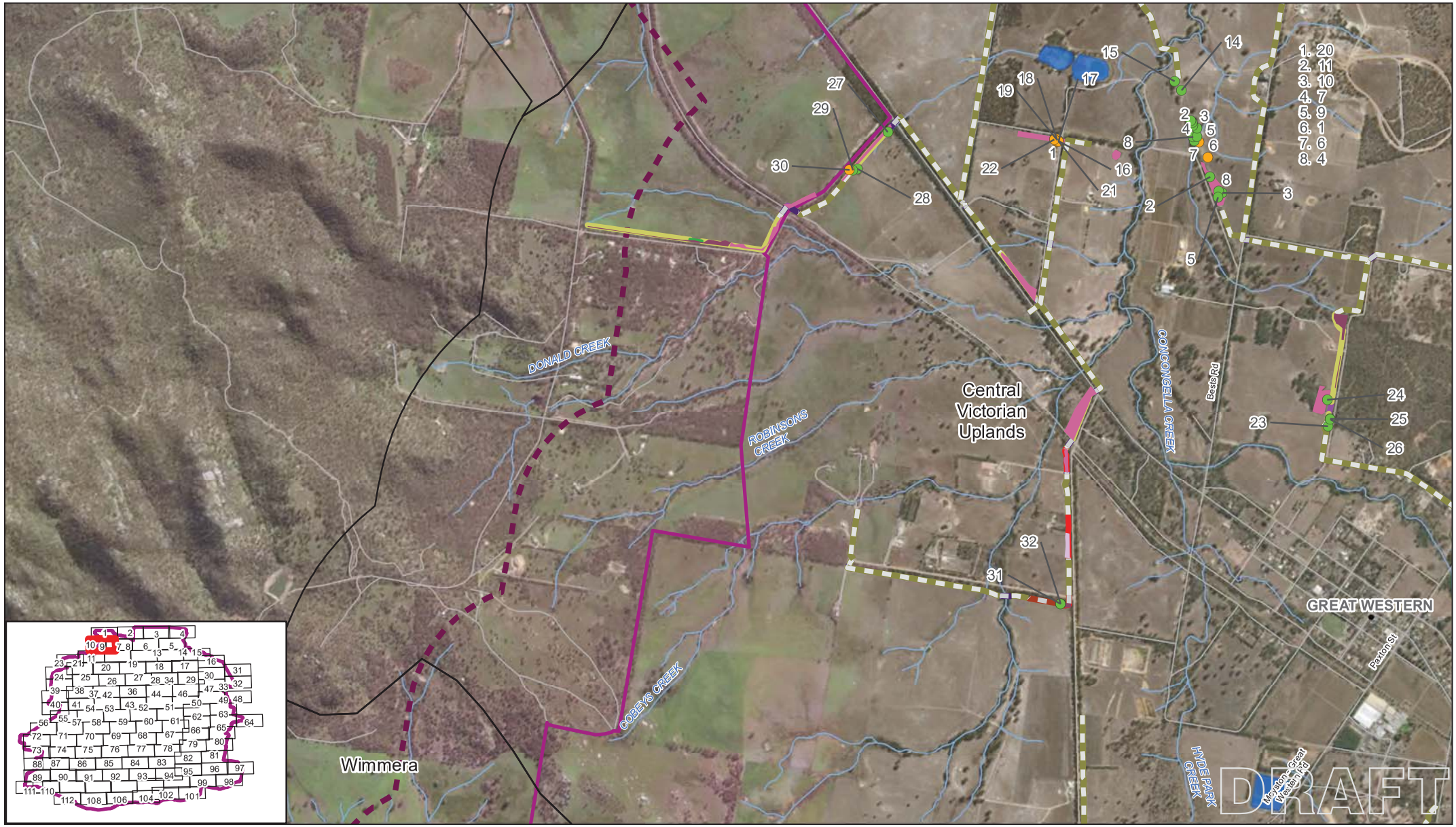

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse
- Stream

Habitat Zones
- FC HZ1
- FC HZ2
- FC HZ2 SW

Pipeline Alignment

Not Assessed
- HDD

- Trench
- X Impact

Assessed
- HDD
- Trench
- X Impact
- X Native Vegetation

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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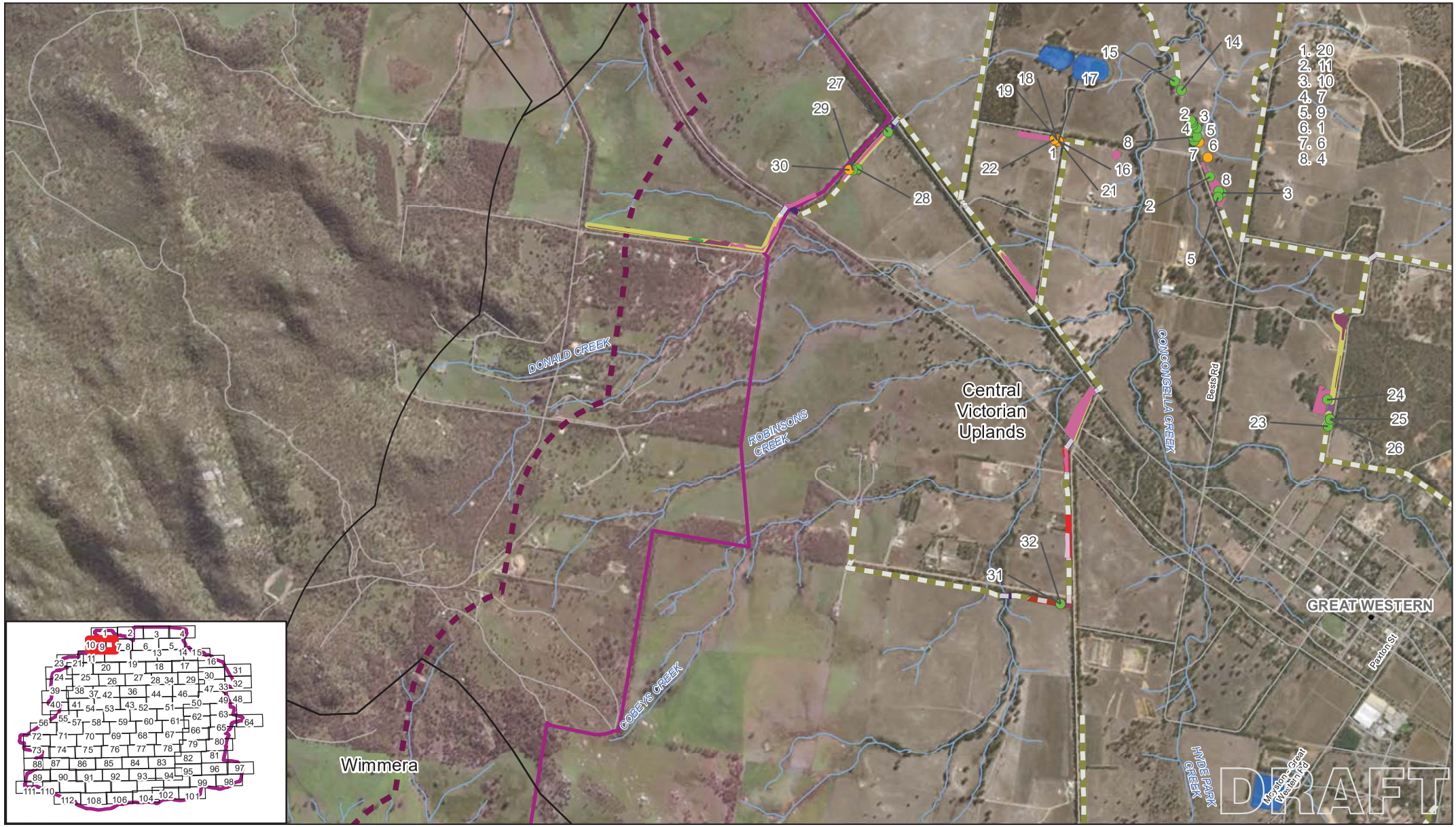

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Metres

Map Projection: Transverse Mercator
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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse
- Stream

Habitat Zones
- FC HZ1
- FC HZ2
- FC HZ2 SW

Pipeline Alignment

Not Assessed
- HDD

- Trench
- X Impact

Assessed
- HDD
- Trench
- X Impact
- X Native Vegetation

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
Date 13/03/2019

Mapped Native Vegetation

Appendix E

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180 Lonsdale Street Melbourne VIC 3000 Australia T 61 3 8687 8000 F 61 3 8687 8111 E melmail@ghd.com W www.ghd.com

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Pump Stations
- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- **Habitat Zones**
- FC HZ 5a NW
- FC HZ3 NW
- FC HZ4 NW
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Impact
- **Assessed**
- HDD
- Trench
- X Impact

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
Date 13/03/2019

Mapped Native Vegetation

Appendix E

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- FC HZ 10a NW
- FC HZ 11 NW
- FC HZ 5a NW
- FC HZ 6a NW
- FC HZ1
- FC HZ3 NW
- FC HZ6a NW
- FC HZ7 NW
- FC HZ8
- FC HZ9b NW

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact

Assessed

- HDD
- Trench
- X Impact
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
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GHD

Mapped Native Vegetation

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Paper Size A4

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- JH HZ3

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Paper Size A4

0 300 600 1,200

Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- JH HZ1
- JH HZ10
- JH HZ2
- JH HZ3
- JH HZ7
- JH HZ9

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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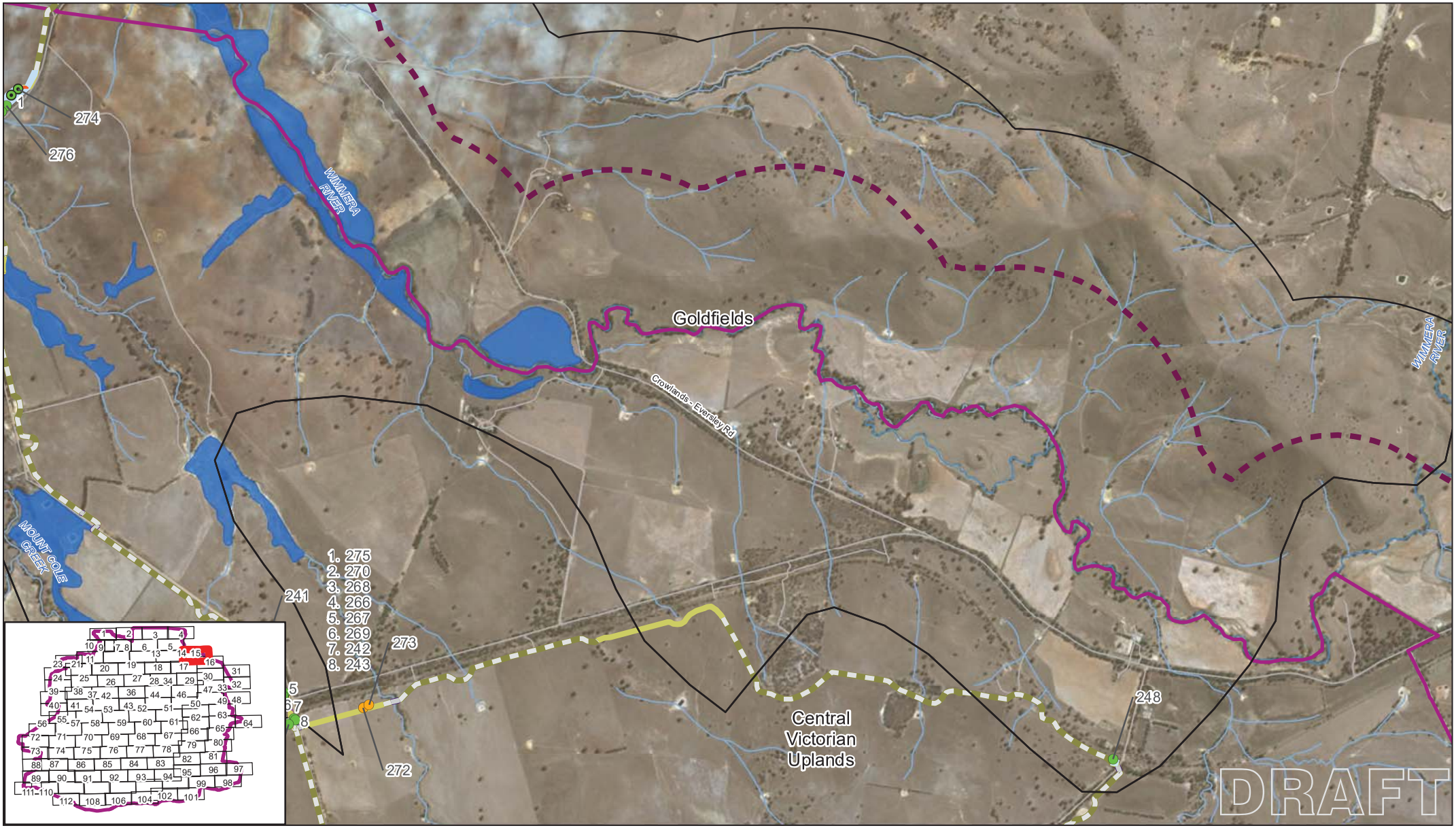

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream

Habitat Zones

- JH HZ10
- JH HZ2
- JH HZ3
- JH HZ7

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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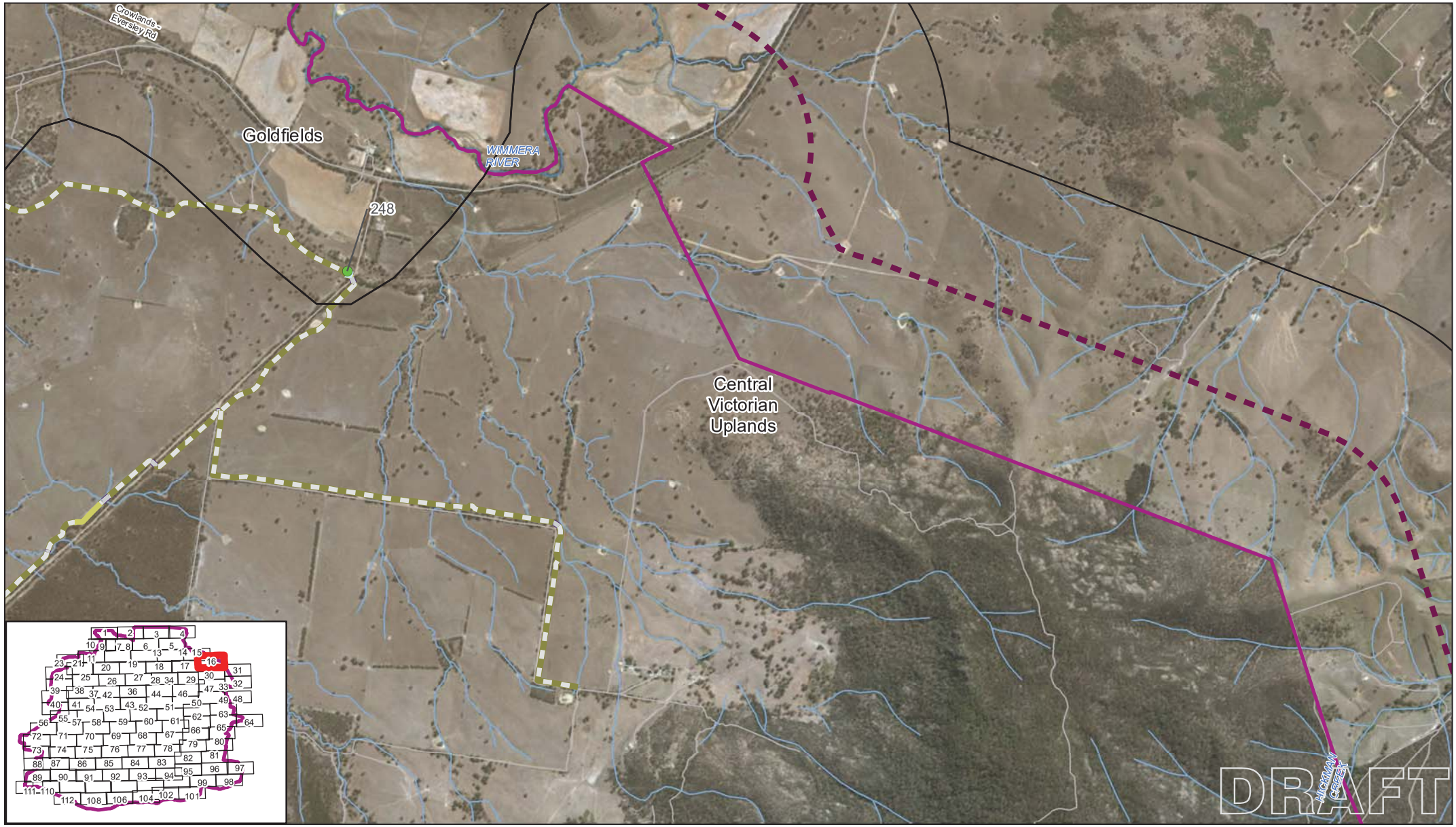

Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion
- **Watercourse**
  - River
  - Stream
- **Habitat Zones**
  - JH HZ2
- **Pipeline Alignment**
- **Not Assessed**
  - HDD
  - Trench
- **Assessed**
  - Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- JH HZ10

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- JH HZ1
- JH HZ3

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
Date 13/03/2019

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- FC HZ 10a NW
- FC HZ8 NW
- FC HZ9b NW

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
Revision	D
Date	13/03/2019

Mapped Native Vegetation

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- FC HZ 9c NW
- HZ1
- HZ10
- HZ3
- HZ9
- Hz3

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact

Assessed

- HDD
- Trench
- X Impact
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Impact
- **Assessed**
- Trench
- X Impact

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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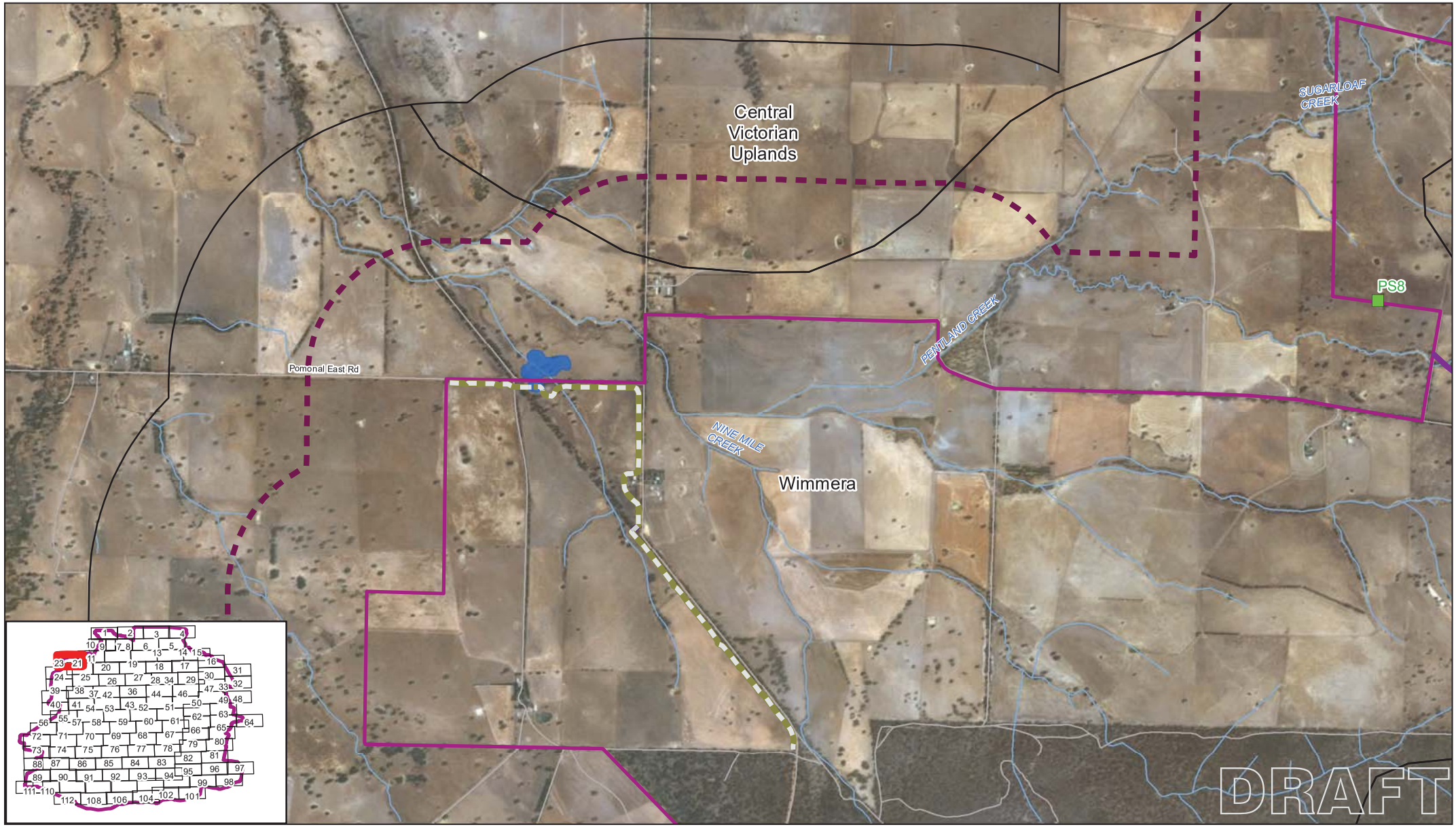

Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Pump Stations
- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
  - Stream
- **Pipeline Alignment**
- **Not Assessed**
  - HDD
  - Trench
- X Wetland

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Mapped Native Vegetation

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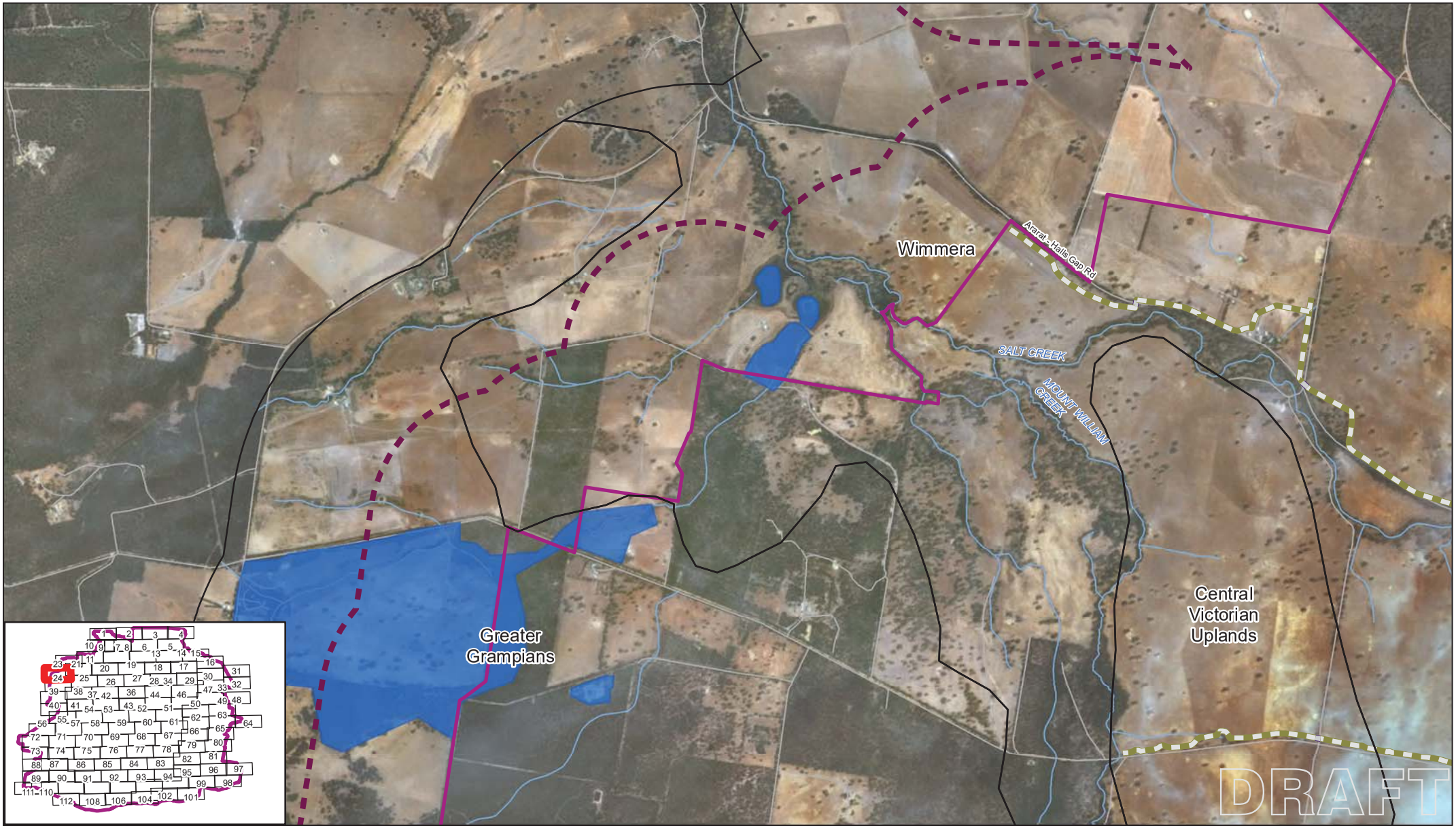

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench

Grampians Wimmera Mallee Water
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Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Metres

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- **Habitat Zones**
- HZ12
- HZ13
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
Date 13/03/2019

Mapped Native Vegetation

Appendix E

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse
- Stream

Waterbodies
- Lake

Habitat Zones
- HZ1
- HZ3
- HZ5
- Hz3

Pipeline Alignment

Not Assessed
- HDD
- Trench

Assessed
- Trench

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
Date 13/03/2019

Mapped Native Vegetation

Appendix E

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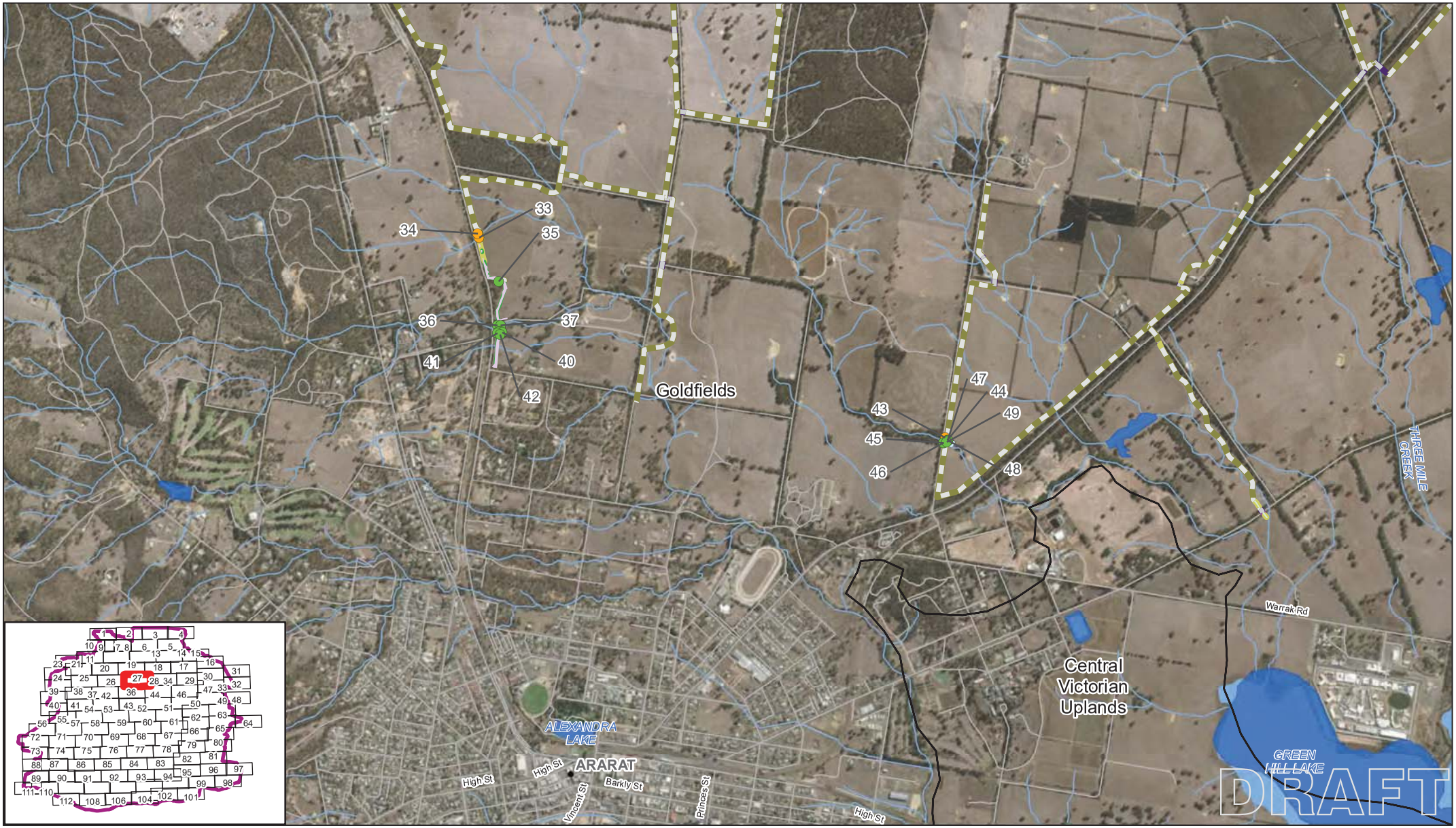

Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Township point
- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Waterbodies

- Lake

Habitat Zones

- JH HZ1
- JH HZ2
- JH HZ7

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Native Vegetation

Assessed

- HDD
- Trench
- X Native Vegetation

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Mapped Native Vegetation

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Metres

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse
- Stream

Waterbodies
- Lake

Habitat Zones
- JH HZ1
- JH HZ10
- JH HZ11

Pipeline Alignment

Not Assessed
- HDD
- Trench
- X Wetland

Assessed
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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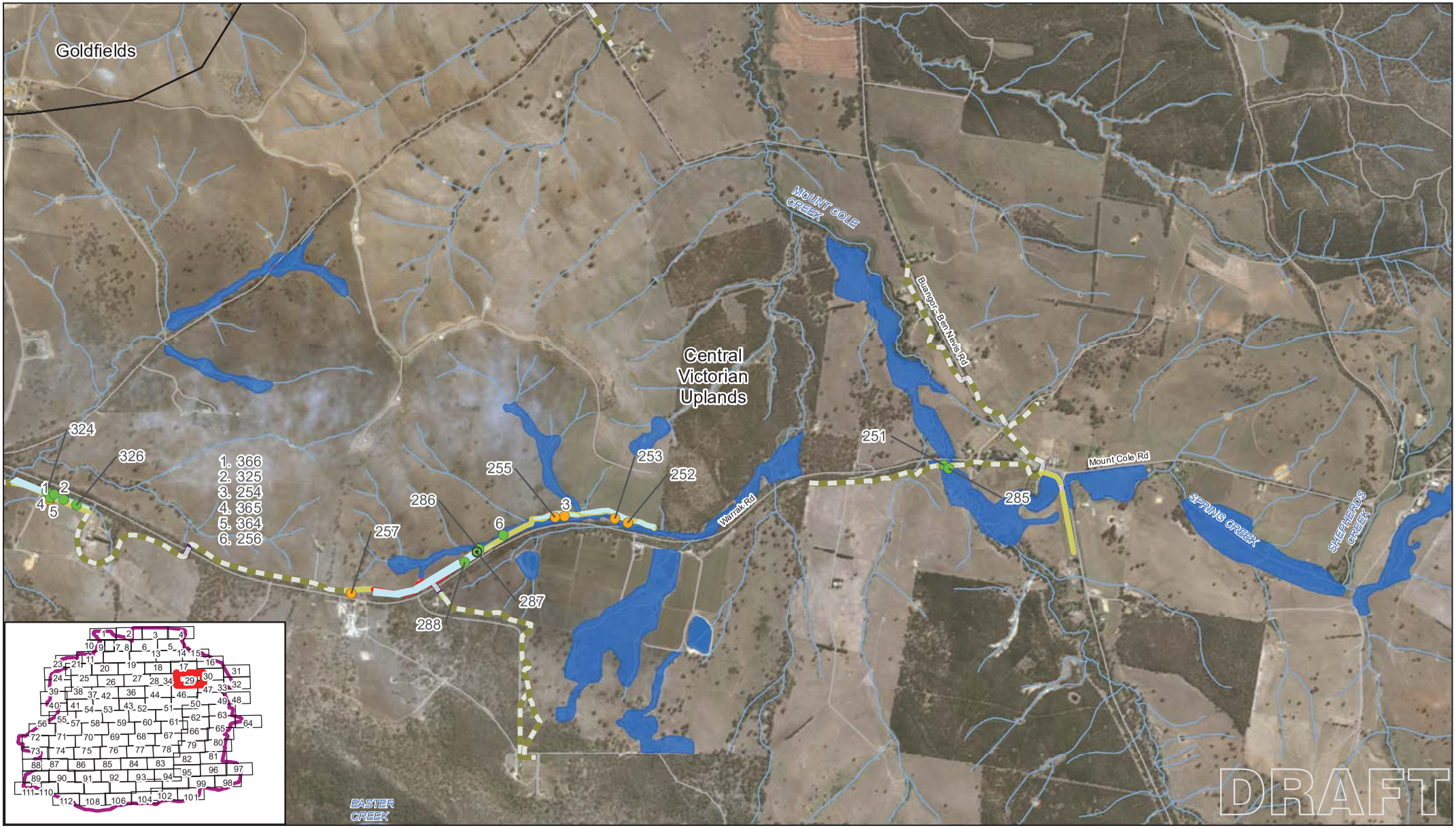

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- JH HZ10
- JH HZ11

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Impact
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion

Watercourse

- River
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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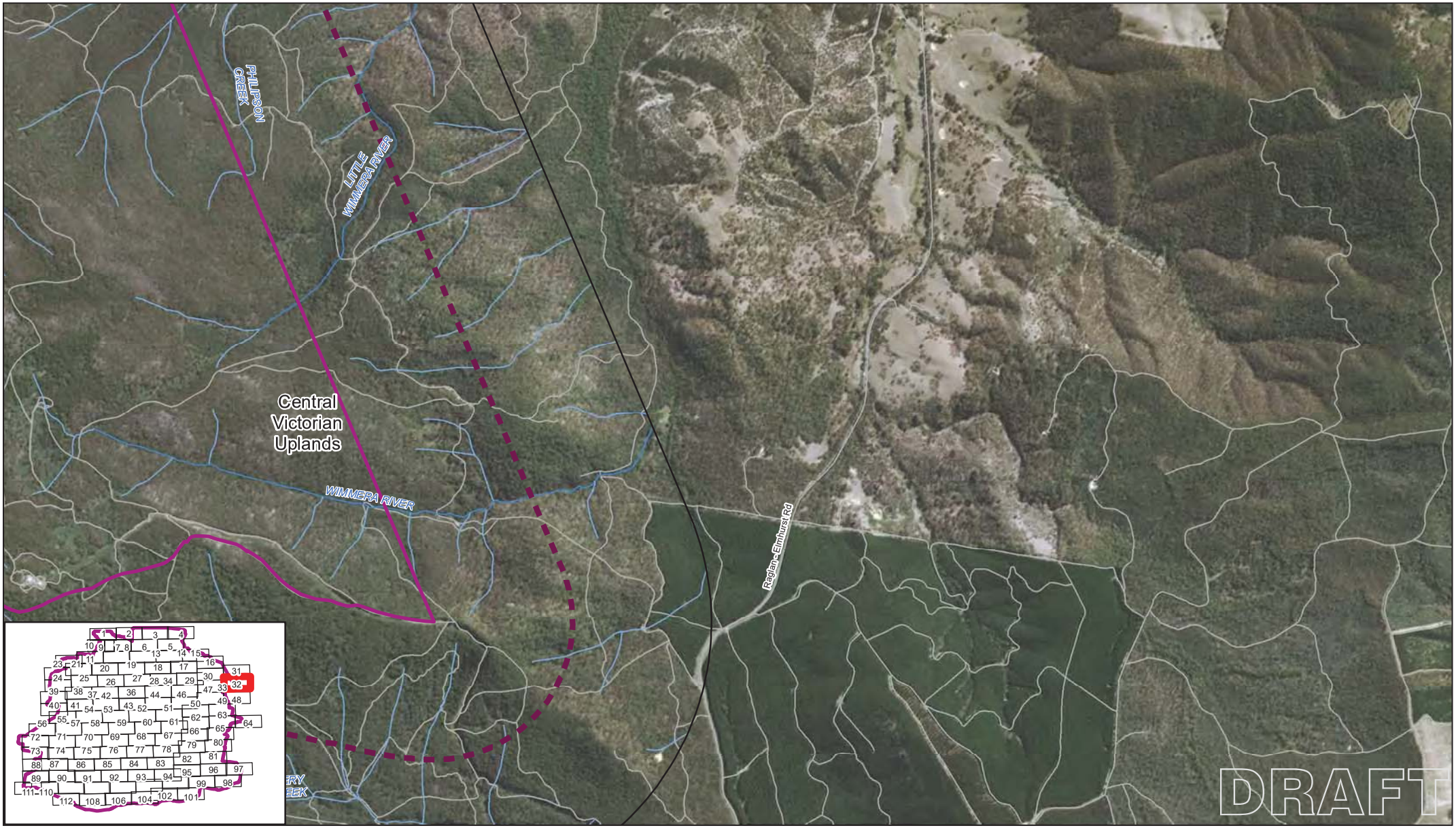

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion

Watercourse

- River
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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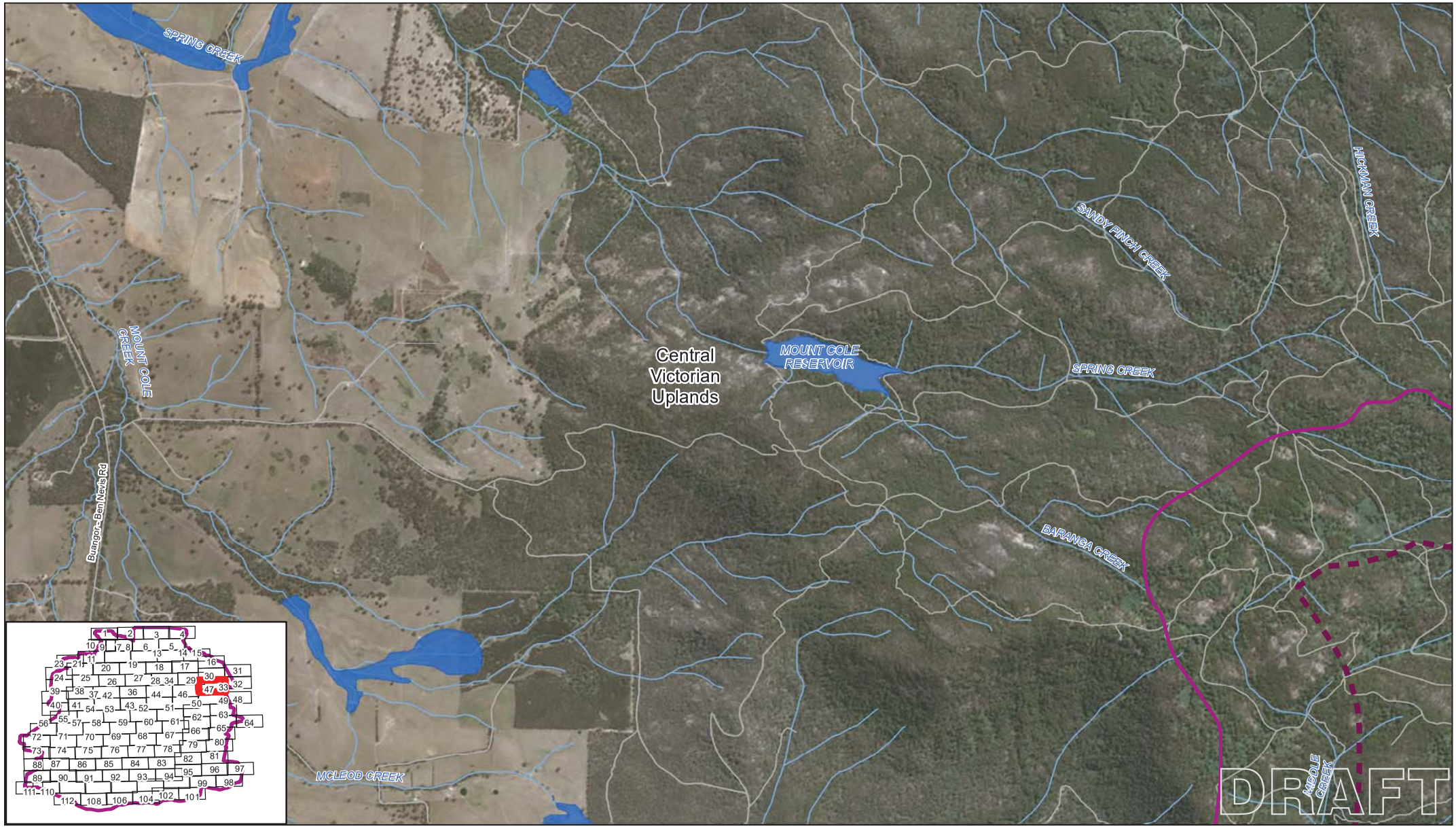

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- **Waterbodies**
- Lake
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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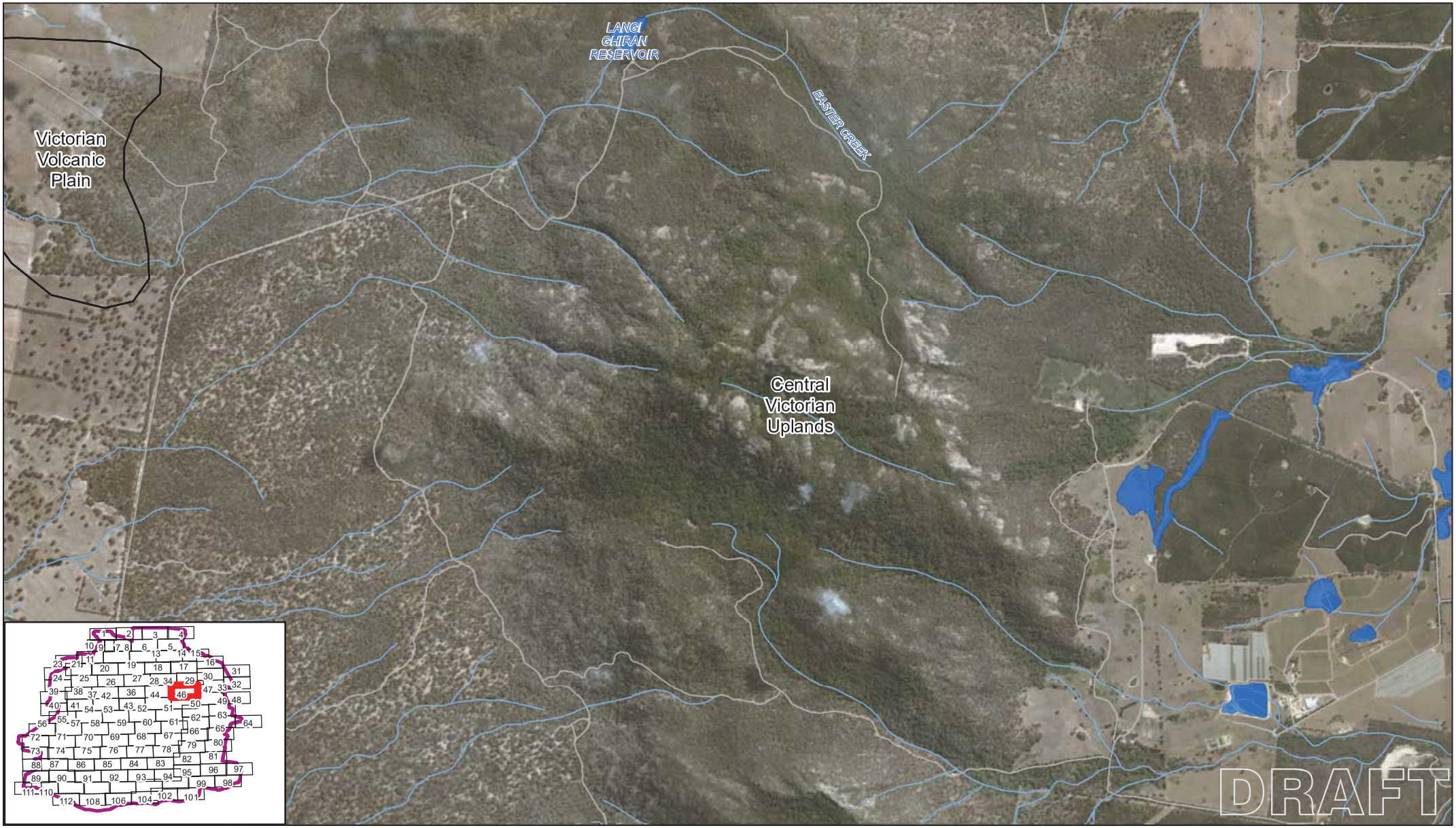

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- **Waterbodies**
- Lake
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
Revision	D
Date	13/03/2019

Mapped Native Vegetation

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream

Waterbodies

- Lake

Habitat Zones

- JH HZ13
- JH HZ14

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Date	13/03/2019

Mapped Native Vegetation

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Pump Stations
- Great Western Off Take to Ararat
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream
- Drain/Channel/O...

Waterbodies

- Lake

Habitat Zones

- HZ1
- HZ1
- HZ3
- HZ4
- Hz2
- Hz3
- JH HZ14

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact
- X Native Vegetation

Assessed

- HDD
- Trench
- X Impact
- X Native Vegetation

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Mapped Native Vegetation

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N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- HZ2
- HZ5
- HZ9
- Hz2
- Hz5

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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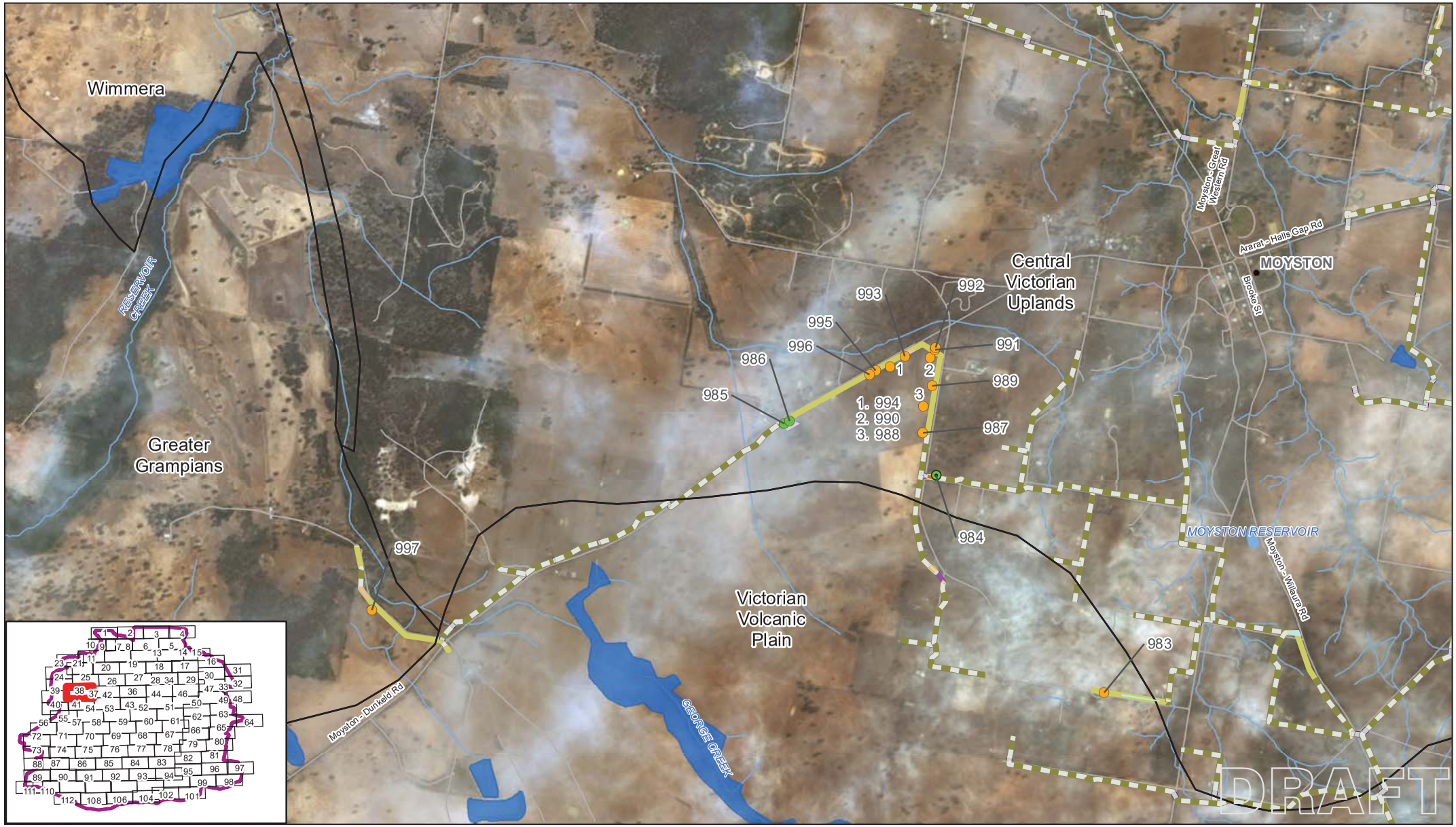

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse
- Stream

Waterbodies
- Lake

Habitat Zones
- HZ 9
- HZ10
- HZ11
- HZ7
- HZ8
- HZ9
- HZ9 JW

Pipeline Alignment

Assessed
- HDD
- Trench

Not Assessed
- HDD
- Trench

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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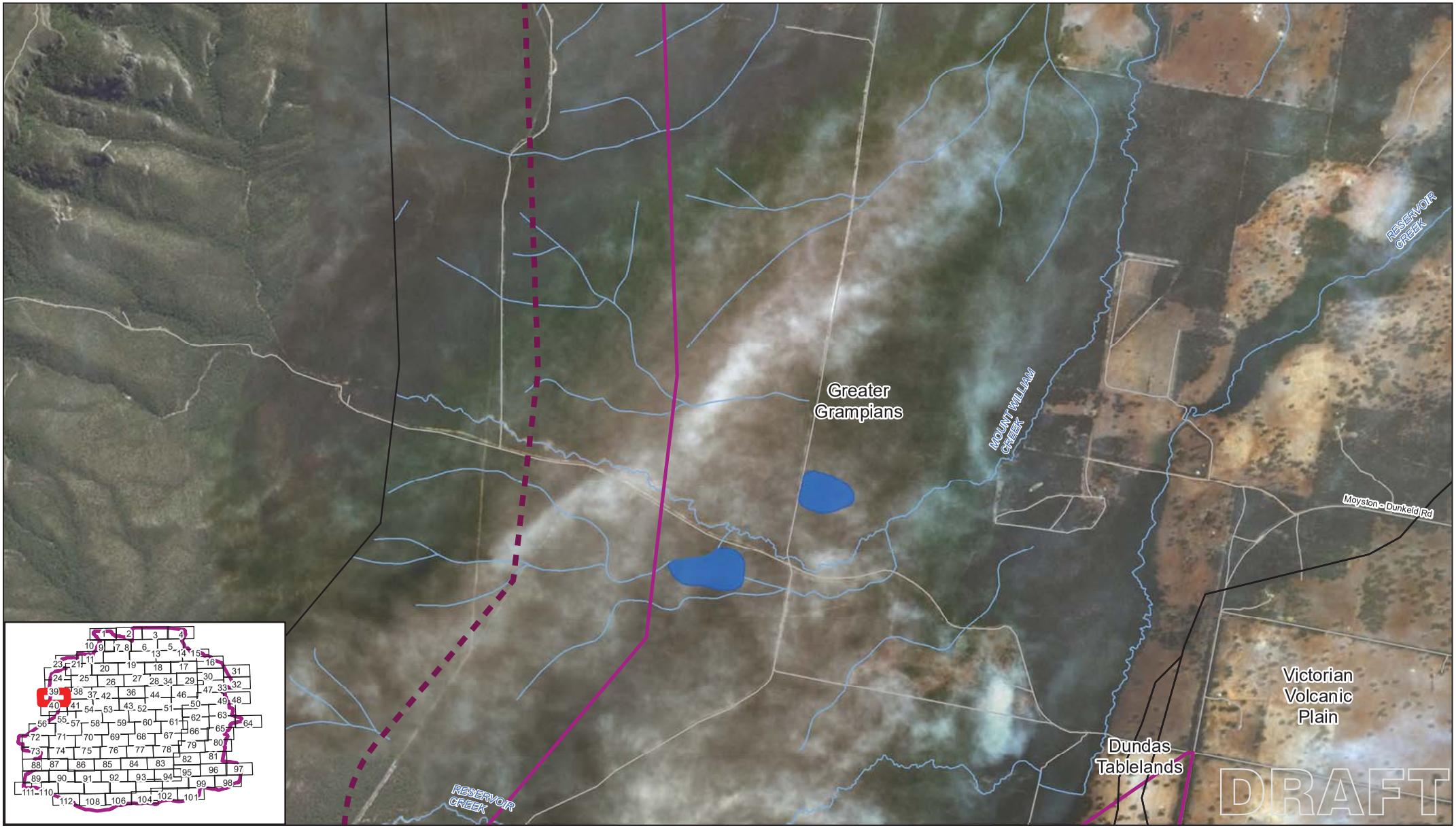

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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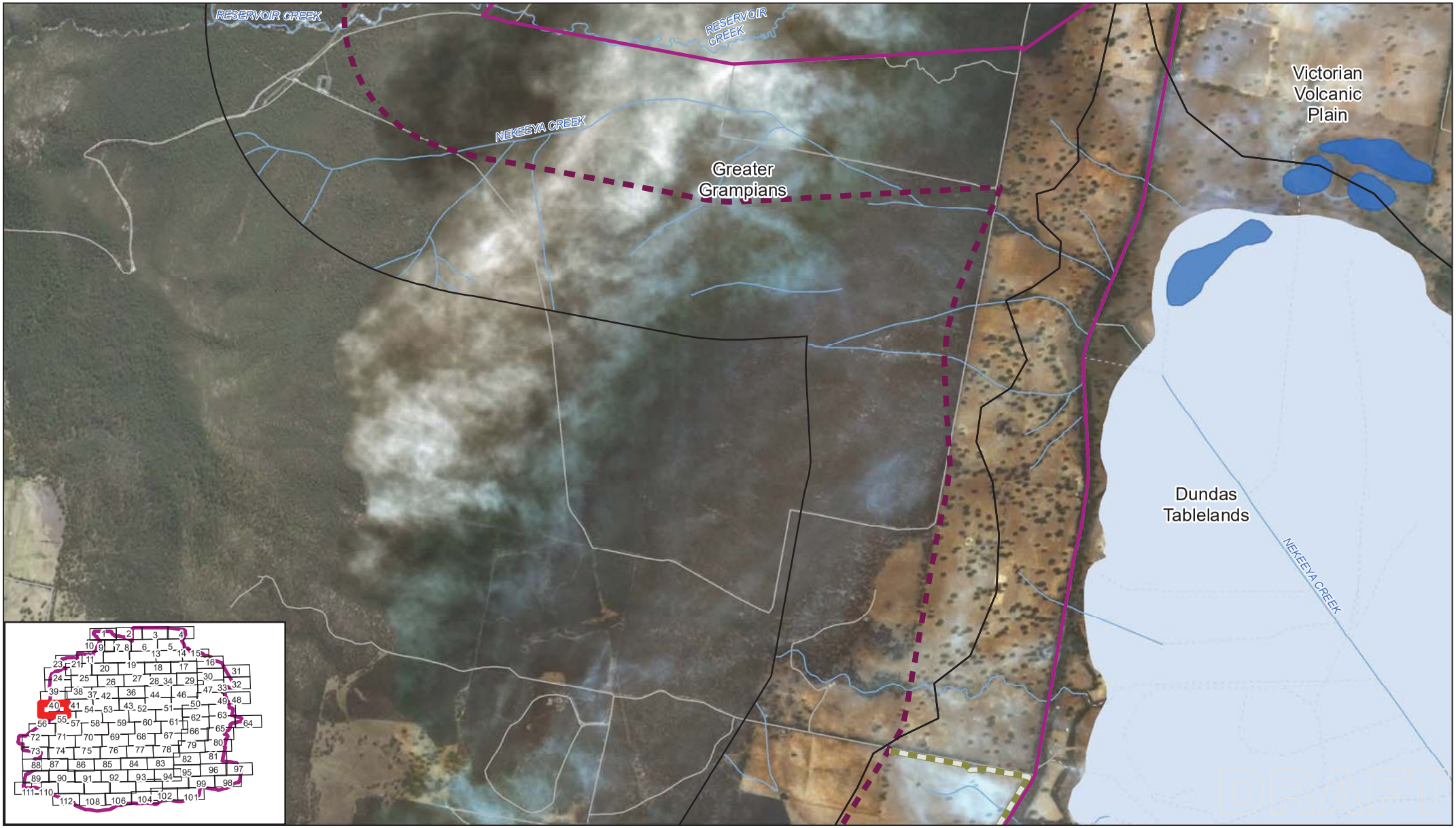

Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Flat

Pipeline Alignment

Not Assessed

- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Date	13/03/2019

Mapped Native Vegetation

Appendix E

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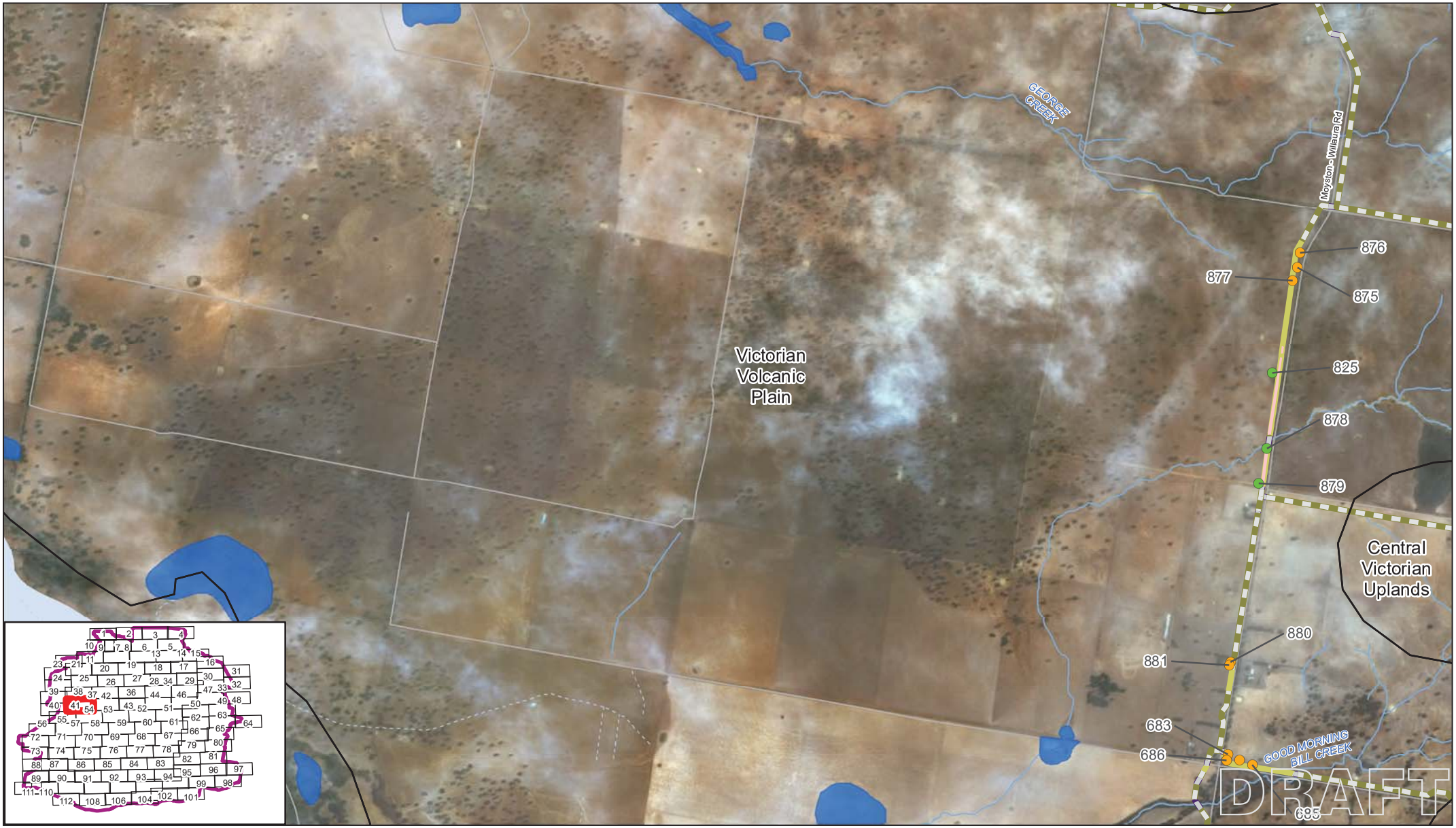

Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Flat

Habitat Zones

- HZ7

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- HZ3
- HZ4 - alluvial
- HZ5
- HZ8
- HZ9
- Hz 5

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact

Assessed

- HDD
- Trench
- X Impact
- X Native Vegetation

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse
- River
- Stream

Waterbodies
- Flat

Habitat Zones
- HZ1
- HZ3
- Hz2
- Hz3
- JH HZ1
- JH HZ13
- JH HZ18
- JH HZ19

Pipeline Alignment

Not Assessed
- HDD
- Trench
- X Impact

Assessed
- HDD
- Trench
- X Impact
- X Native Vegetation

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- JH HZ13
- JH HZ14

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- Trench
- X Wetland
- HDD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Pipeline Alignment

Not Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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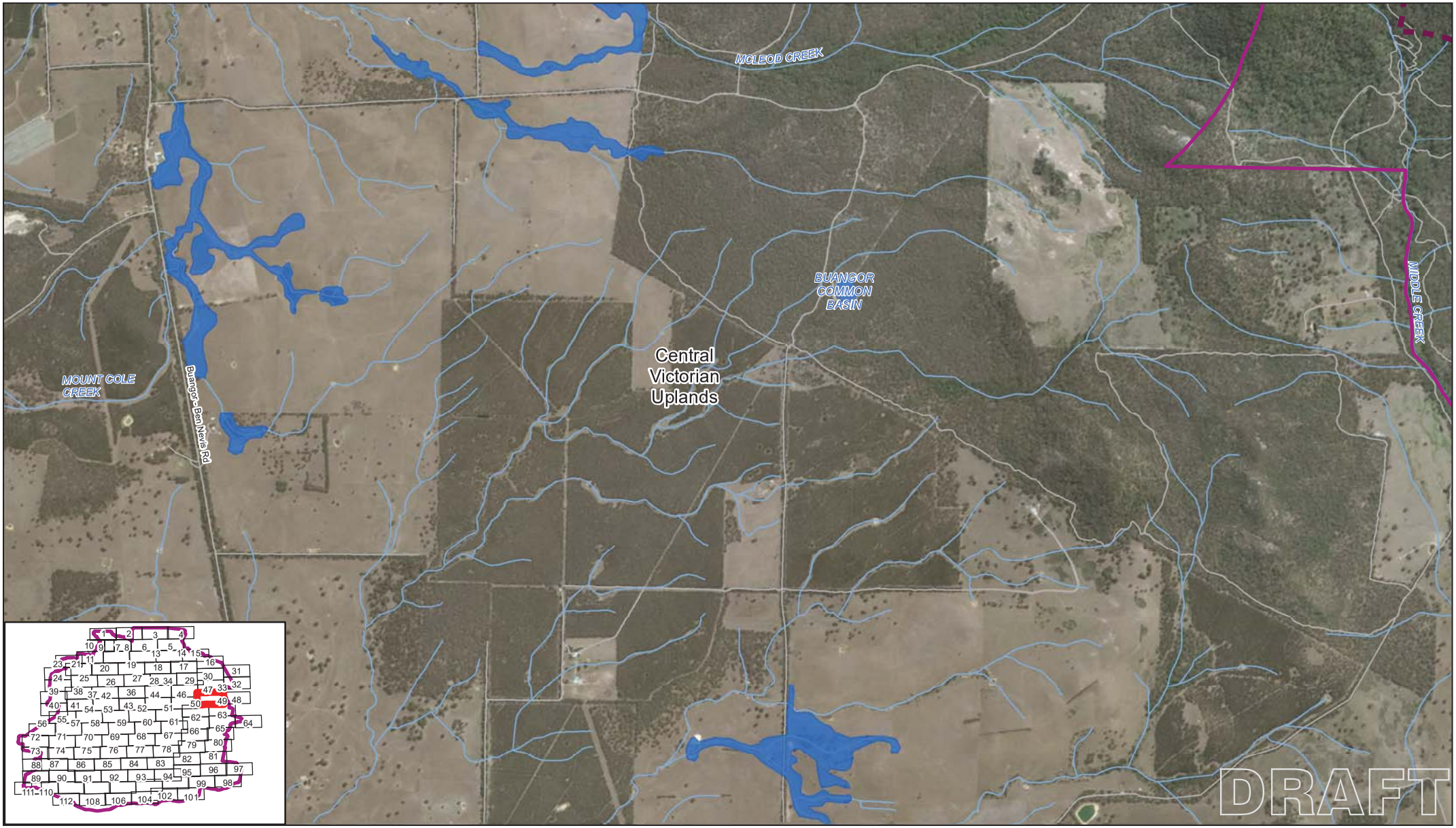

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- **Waterbodies**
- Lake

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Mapped Native Vegetation

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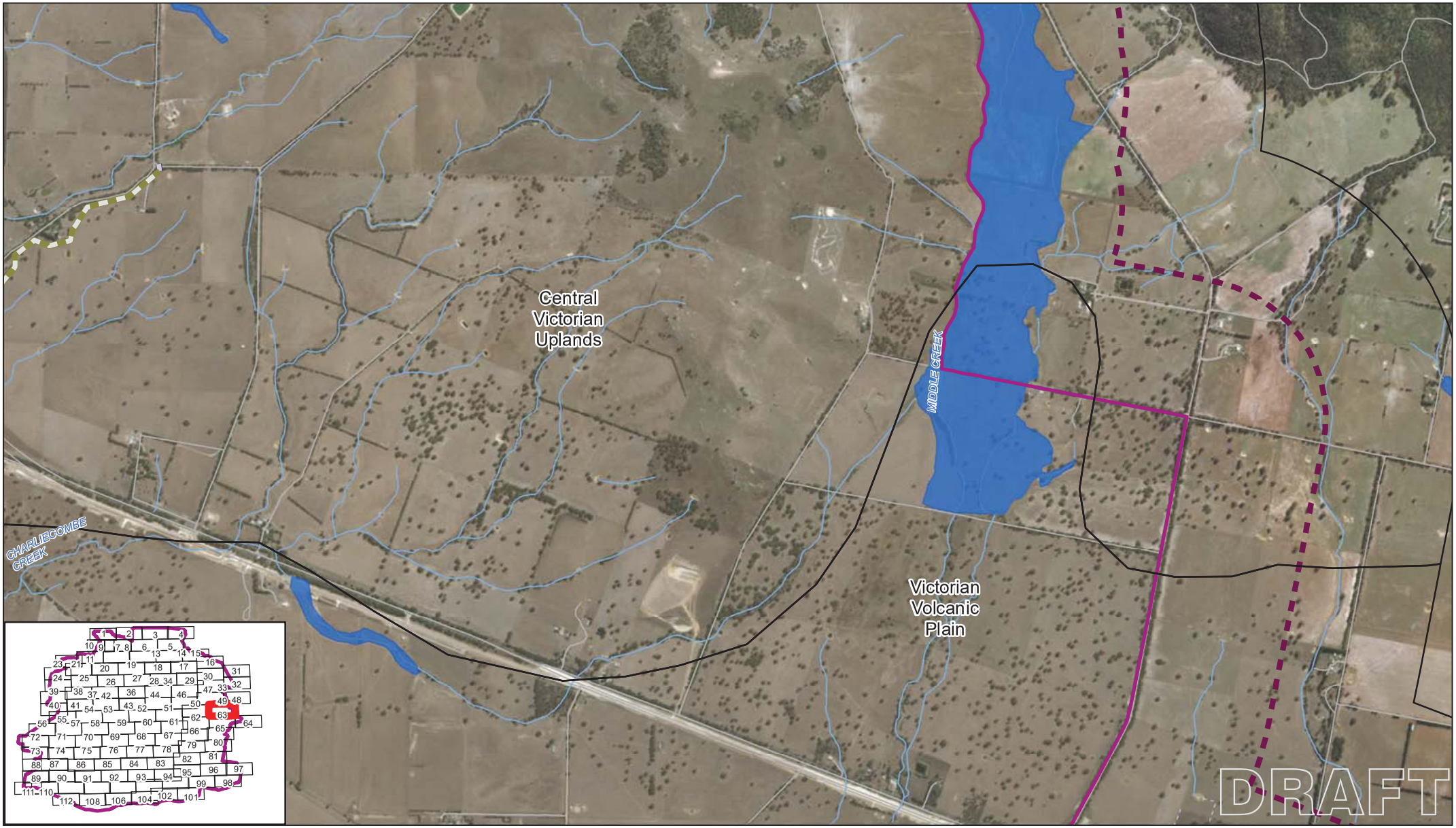

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
Date 13/03/2019

Mapped Native Vegetation

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Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse
- Stream

Habitat Zones
- JH HZ10
- JH HZ11
- JH HZ14

Pipeline Alignment

Not Assessed
- HDD

- Trench
- X Wetland

Assessed
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
Revision	D
Date	13/03/2019

Mapped Native Vegetation

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Habitat Zones

- JH HZ10

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact
- X Wetland

Assessed

- X Impact
- X Wetland
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- JH HZ11
- JH HZ16
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- **Assessed**
- HDD
- Trench

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym
- **Watercourse**
- River
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- HZ8
- HZ9
- JH HZ15
- JH HZ17
- JH HZ18
- JH HZ22
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Impact
- X Impact
- X Native Vegetation
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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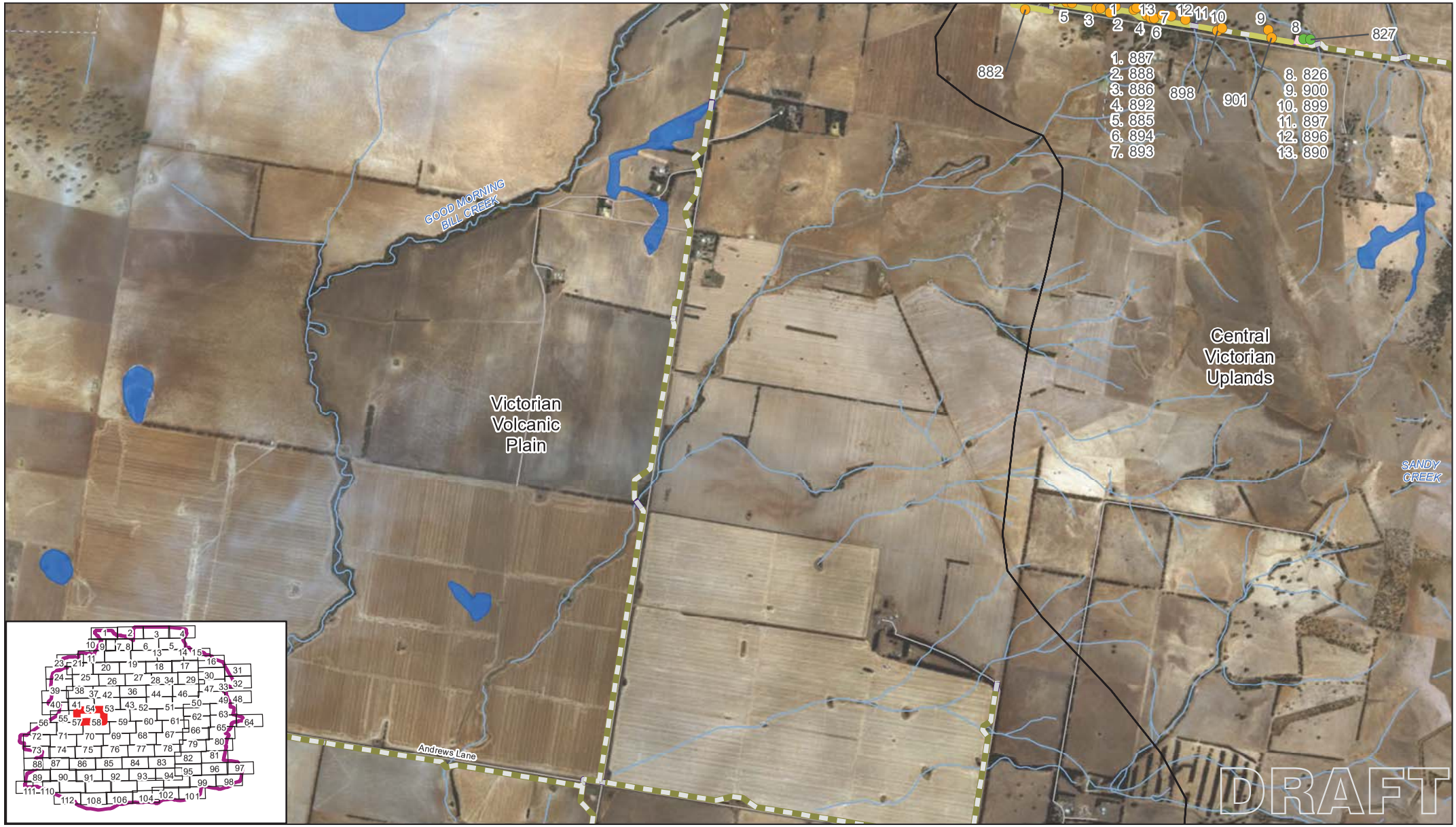

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N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- HZ8
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Flat

Habitat Zones

- JH HZ23
- JH HZ24

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Native Vegetation

Assessed

- HDD
- Trench
- X Native Vegetation

Grampians Wimmera Mallee Water
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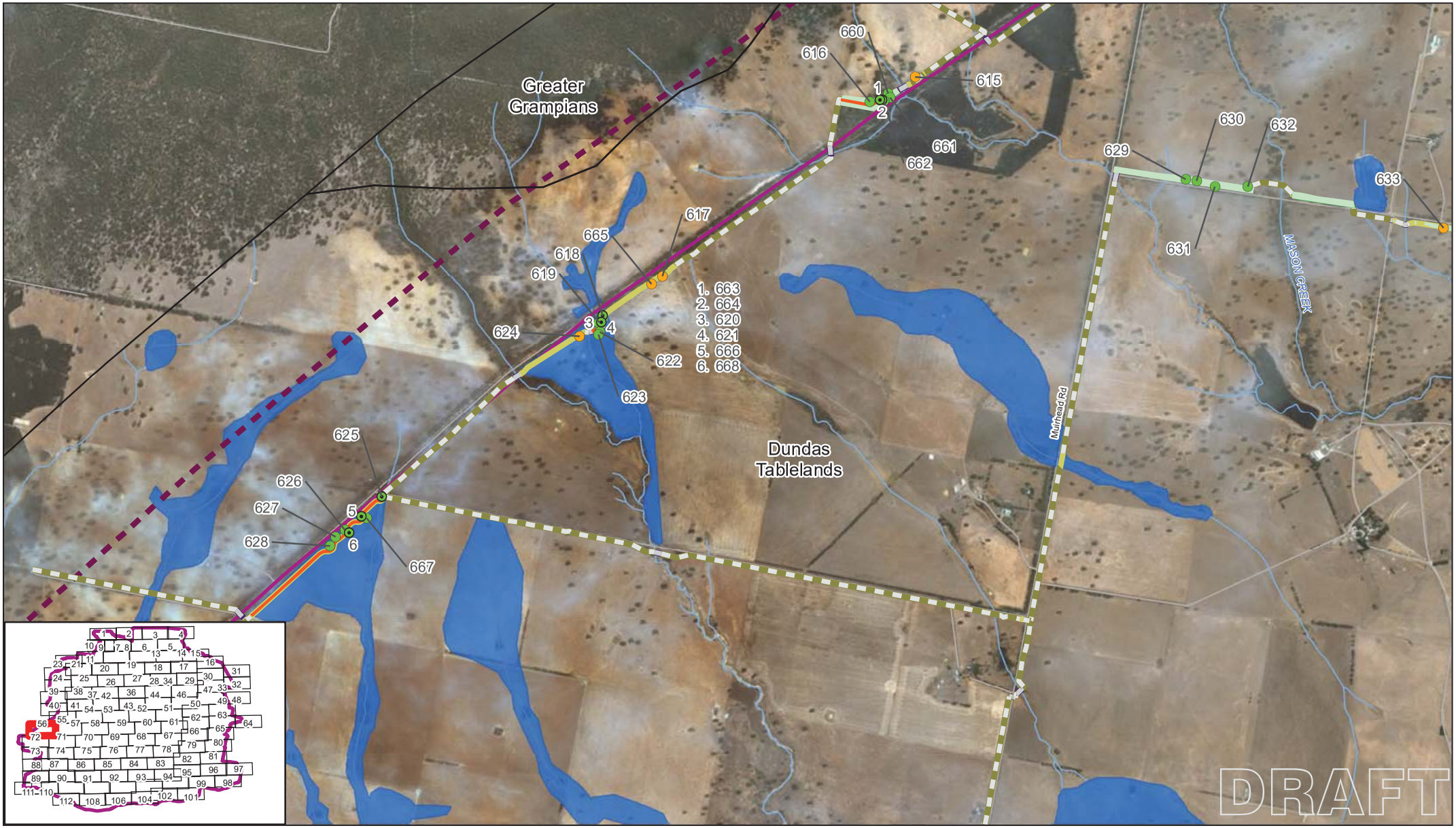

Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream

Habitat Zones

- JH HZ25

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Native Vegetation

Assessed

- HDD
- Trench
- X Native Vegetation

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Mapped Native Vegetation

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Swamp

Habitat Zones

- JH HZ25

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland
- X Wetland

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Township point
- Pump Stations
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- River
- Stream
- Drain/Channel/O...

Habitat Zones

- JH HZ13
- JH HZ18

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact
- X Wetland

Assessed

- HDD
- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- **Habitat Zones**
- JH HZ16
- JW HZ6
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Impact
- X Wetland
- **Assessed**
- HDD
- Trench
- X Impact
- X Wetland

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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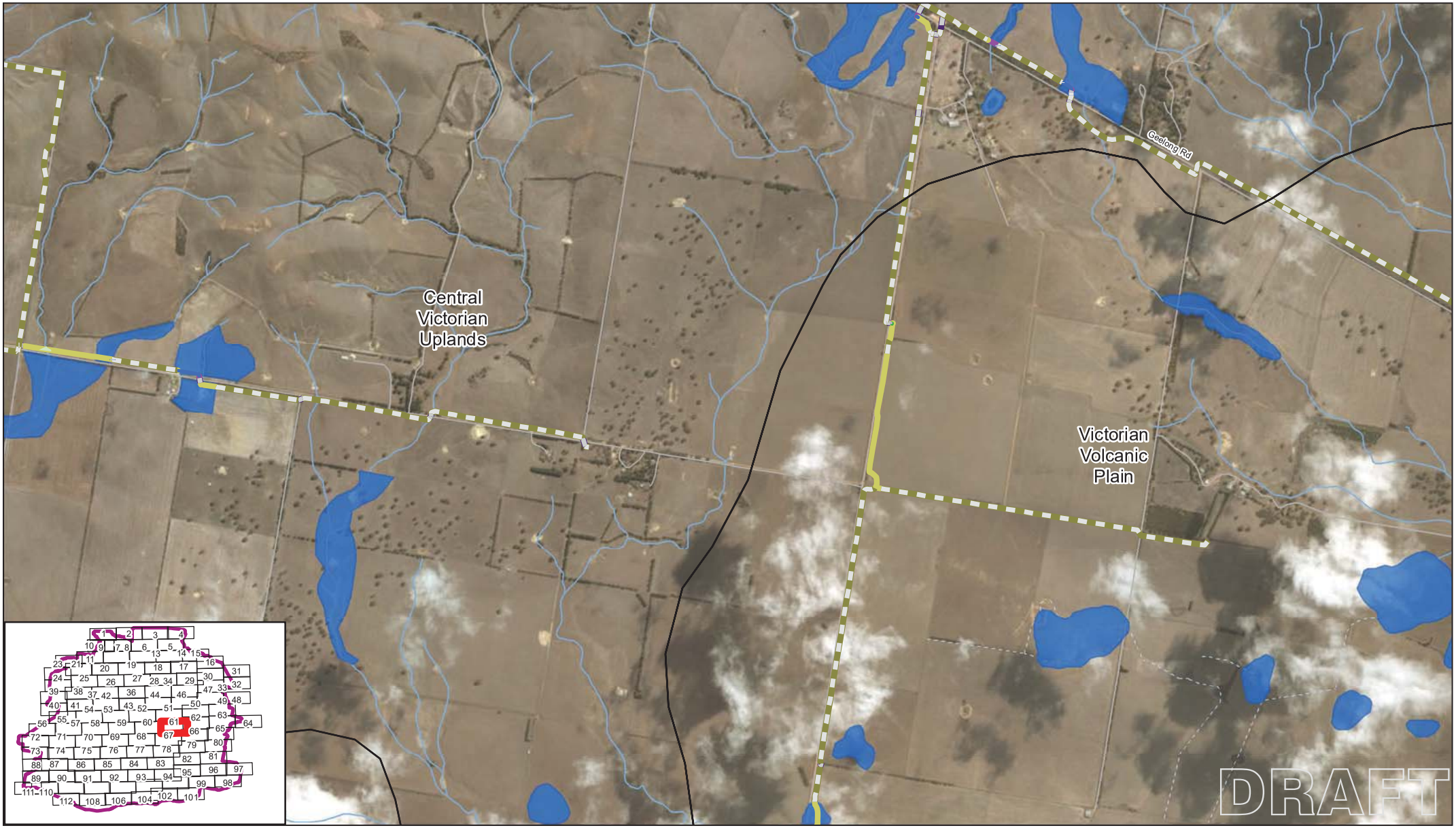

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- JH HZ10
- JH HZ14
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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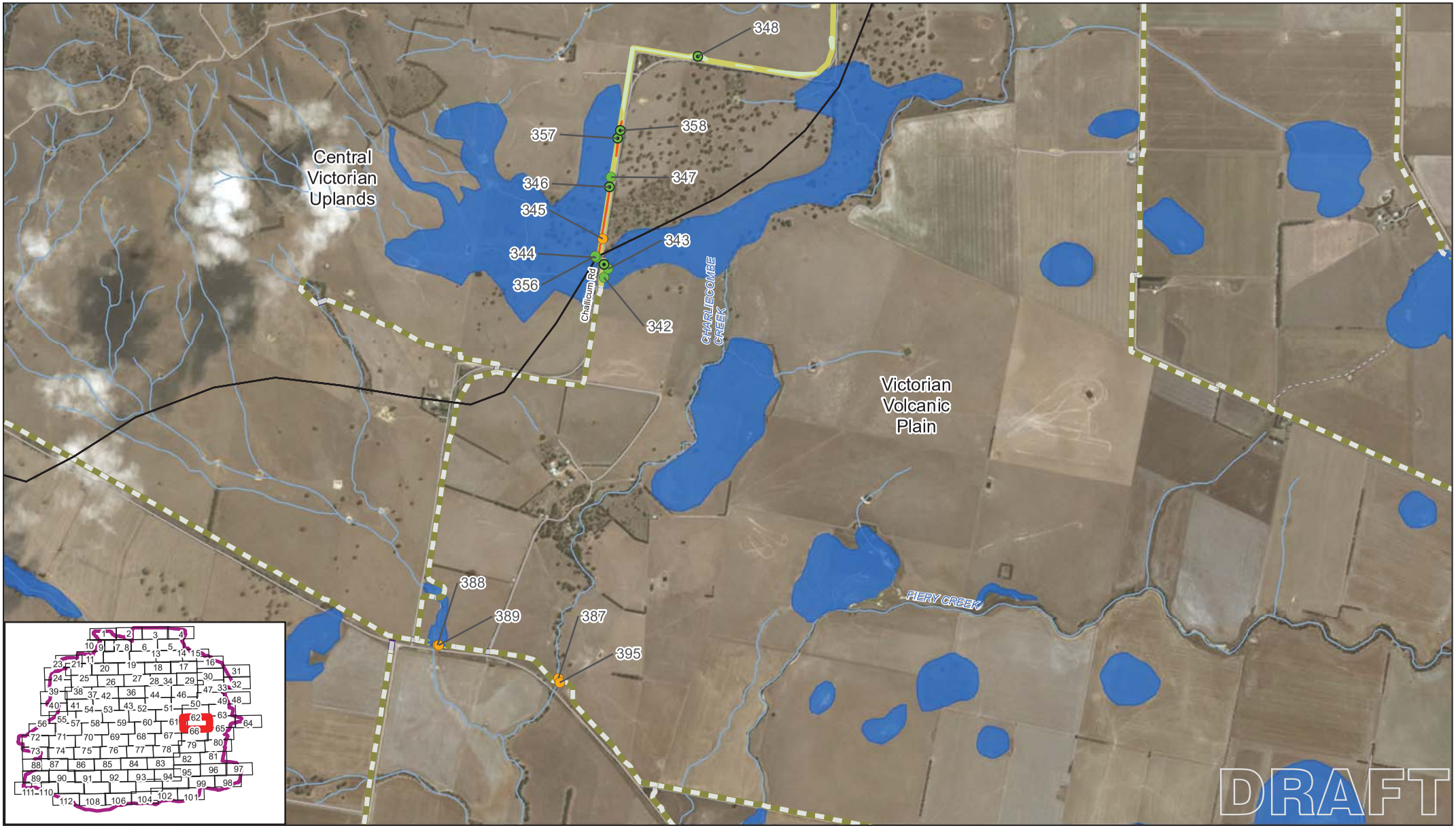

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- Stream
- Drain/Channel/O...

Habitat Zones

- JH HZ10
- JH HZ15

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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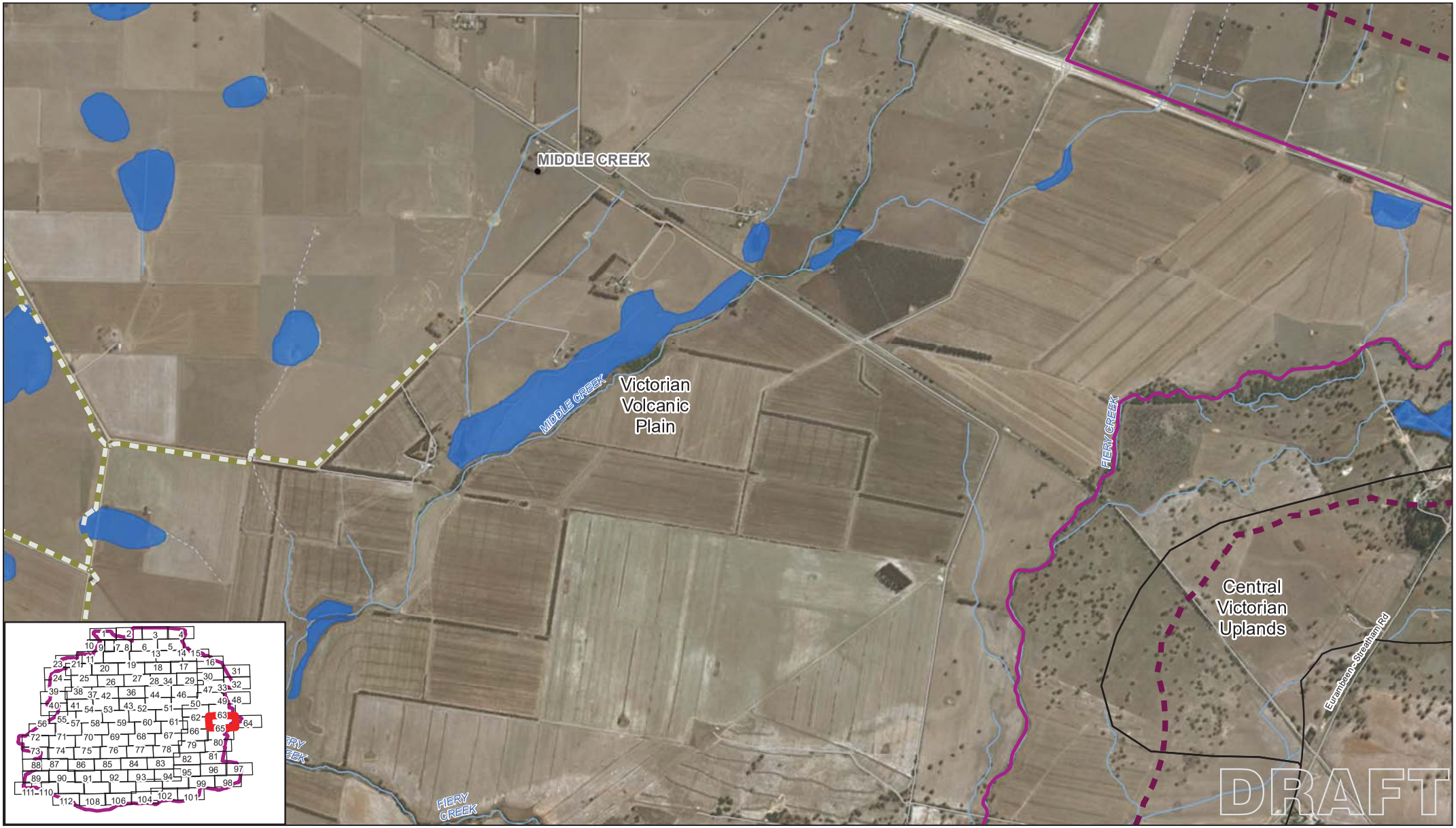

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
Revision	D
Date	13/03/2019

Mapped Native Vegetation

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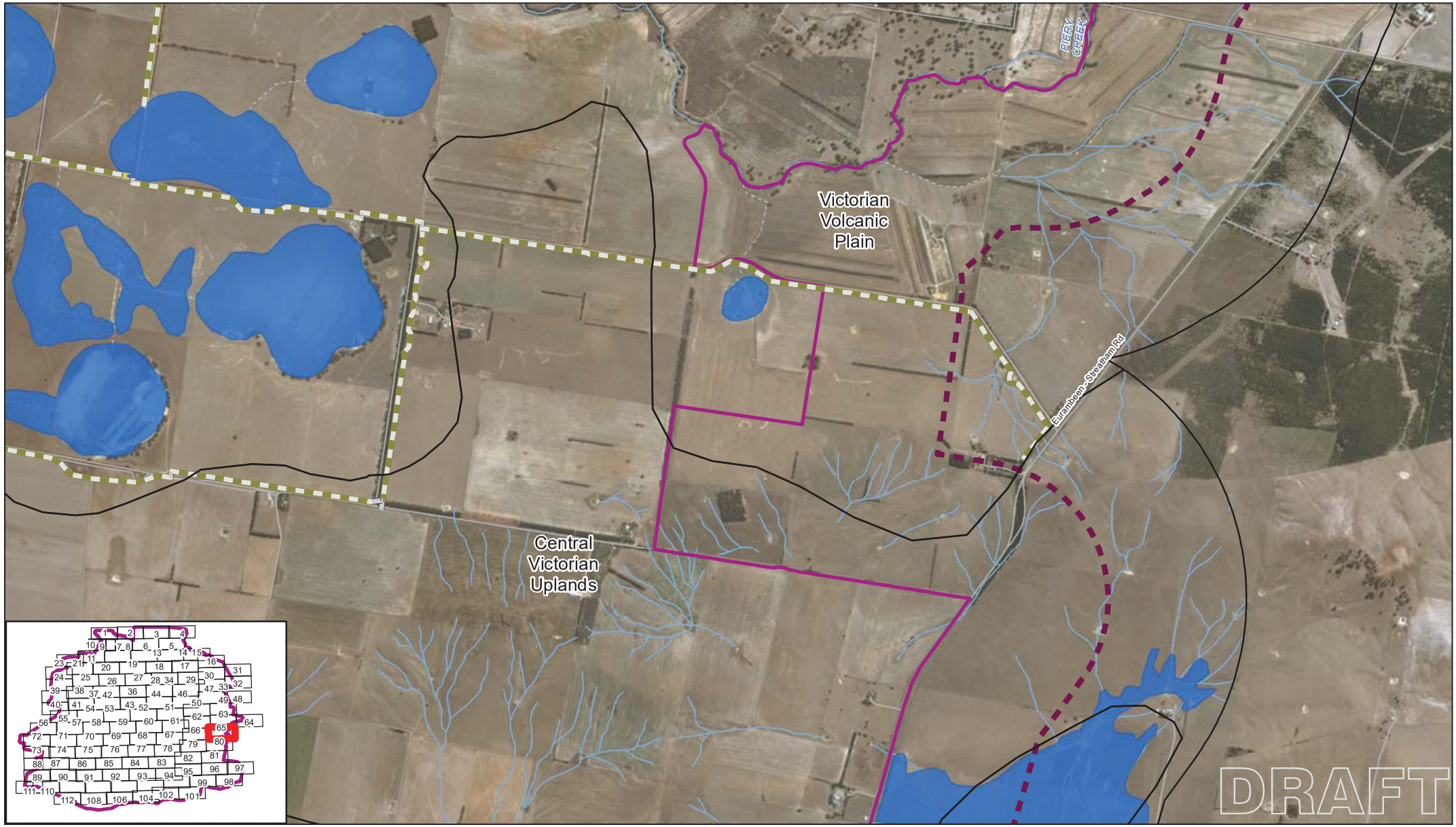

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland
- X Wetland

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Habitat Zones

- JH HZ14
- JH HZ20

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Native Vegetation
- X Wetland

Assessed

- HDD
- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Drain/Channel/O...

Watercourse
- River
- Stream

Waterbodies
- Swamp

Pipeline Alignment

Not Assessed
- HDD
- Trench
- X Wetland

Assessed
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Drain/Channel/O...

Watercourse
- River
- Stream

Waterbodies
- Lake

Pipeline Alignment

Not Assessed
- HDD
- Trench
- X Wetland

Assessed
- Trench
- X Wetland

Grampians Wimmera Mallee Water
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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Swamp

Habitat Zones

- FC HZ1 SW

Pipeline Alignment

Not Assessed

- HDD
- Trench

- X Wetland

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Lake

Habitat Zones

- FC HZ2 SW

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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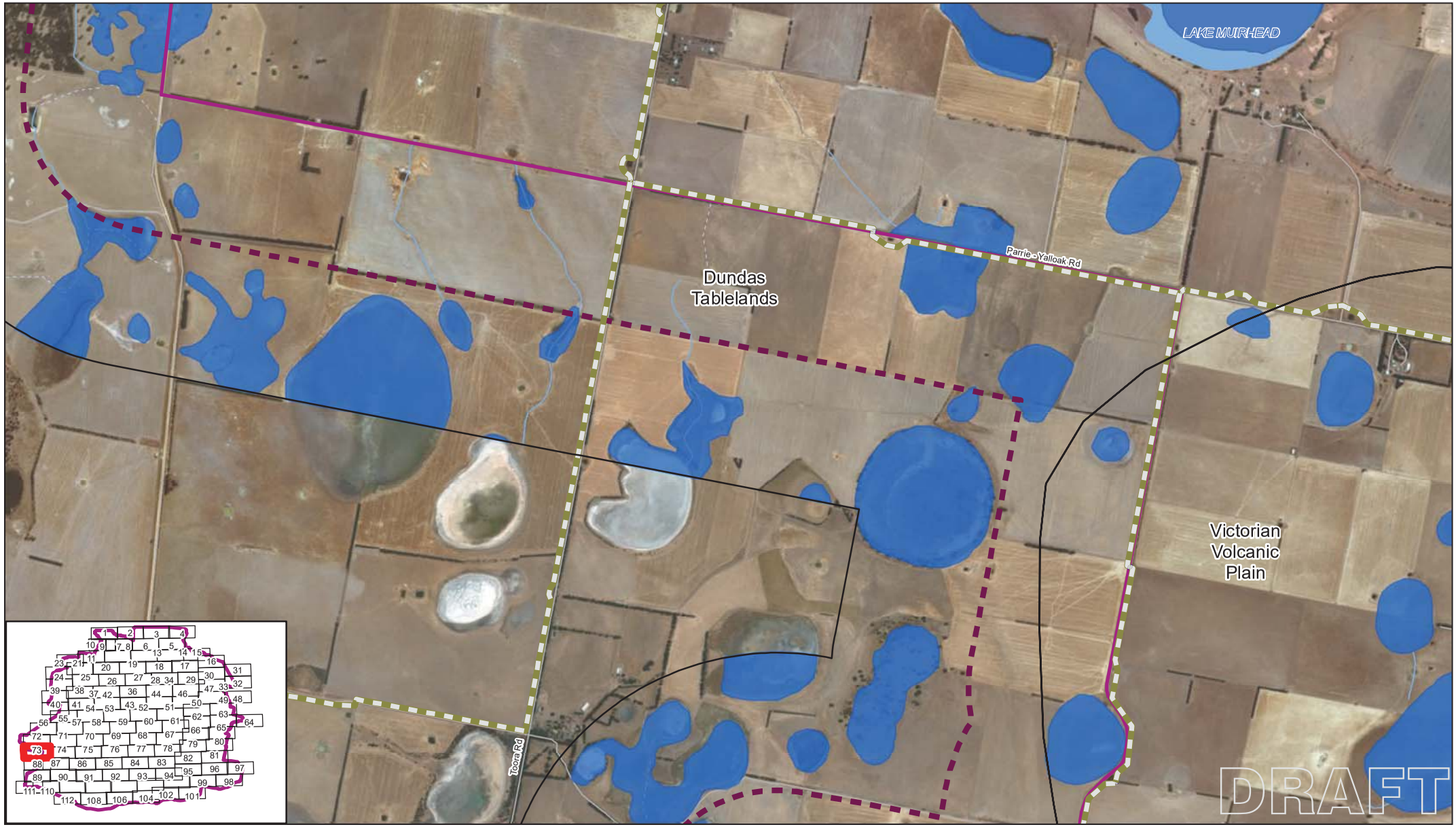

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Lake

Pipeline Alignment

Not Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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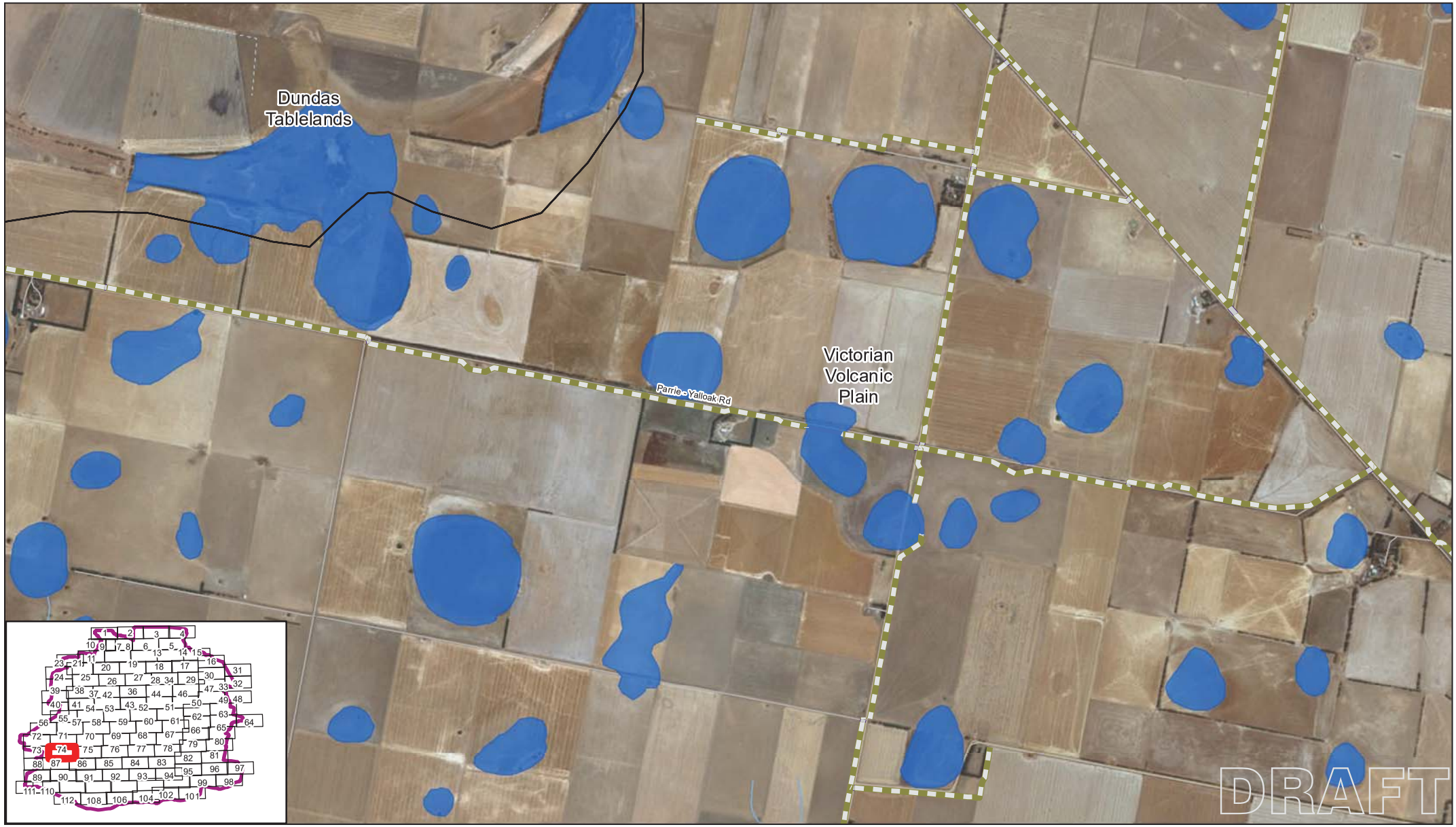

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
  - River
  - Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
  - HDD
- Trench
- X Wetland
- **Assessed**
  - Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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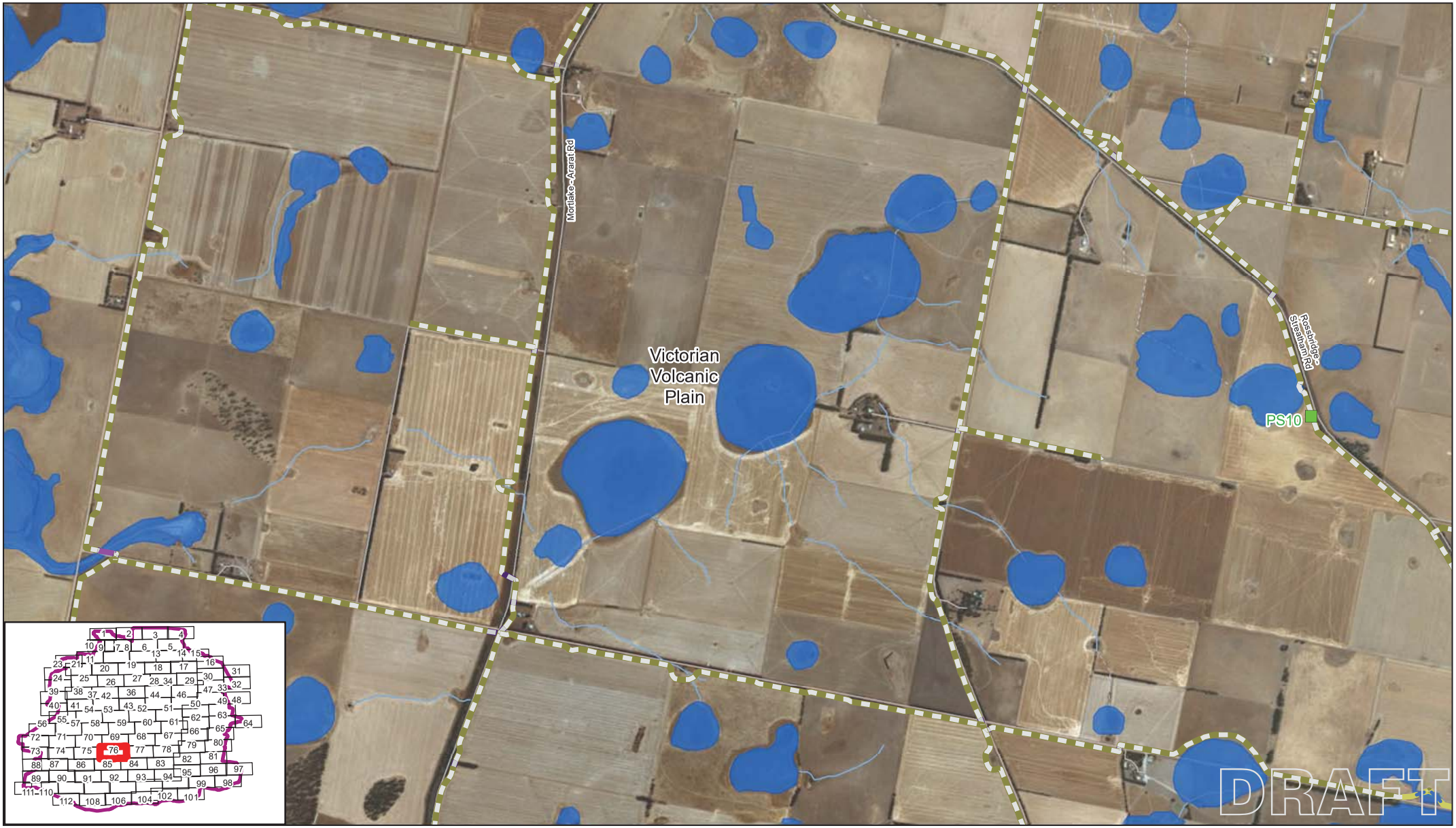

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Pump Stations
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- FC HZ4 SE
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
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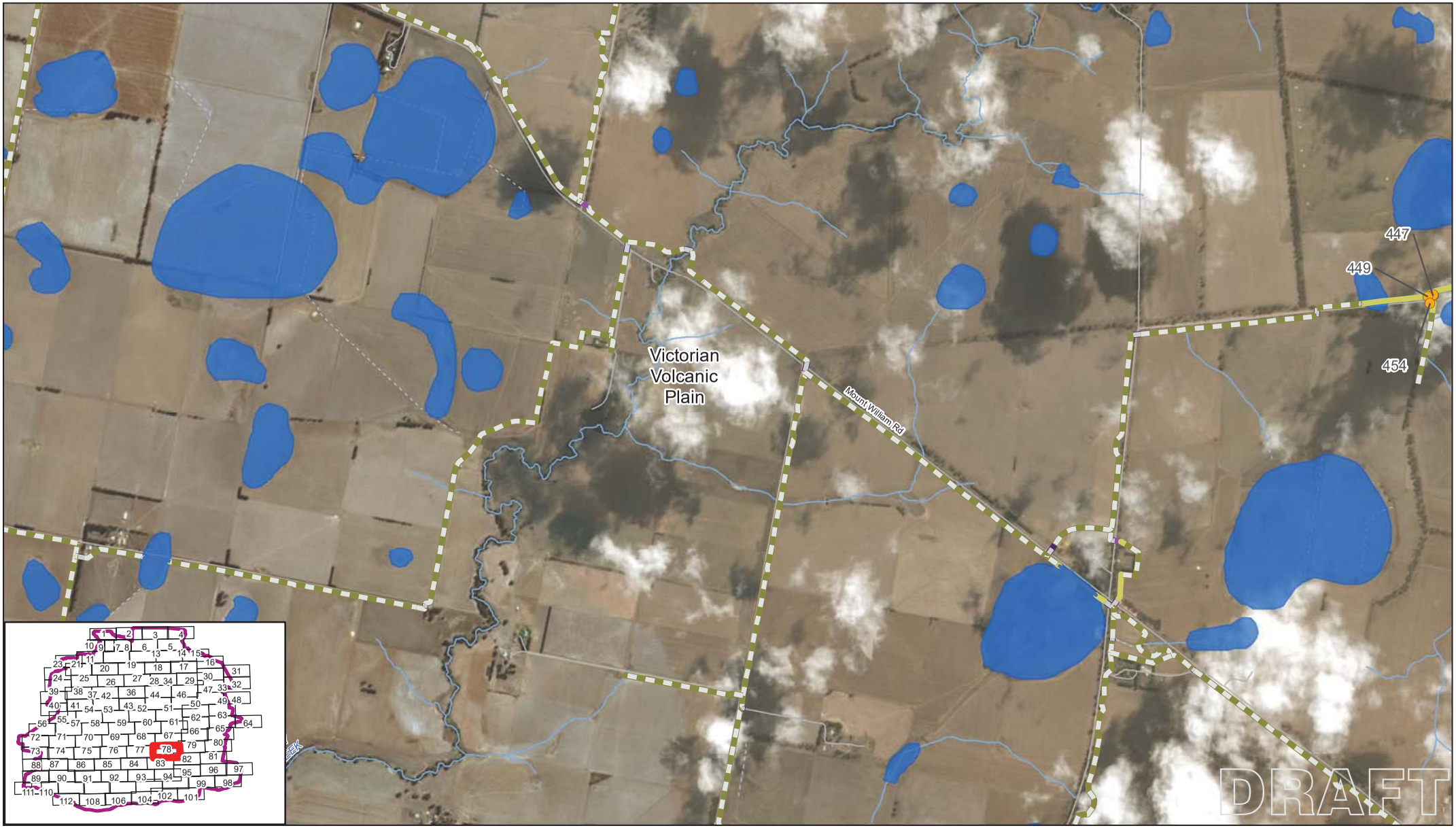

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- FC HZ 6 SE
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- **Assessed**
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Revision D
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Metres

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Habitat Zones

- JH HZ14
- JH HZ16

Pipeline Alignment

Not Assessed

- HDD
- Trench

- X Impact
- X Wetland

Assessed

- X Impact
- X Wetland
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Native Vegetation
- X Wetland

Assessed

- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Habitat Zones

- JH HZ 21

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Impact
- X Wetland

Assessed

- HDD
- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
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N

LEGEND

- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Habitat Zones**
- FC HZ 6 SE
- FC HZ3a SE
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Native Vegetation
- X Wetland

Grampians Wimmera Mallee Water
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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- River
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- River
- Stream
- Drain/Channel/O...
- **Waterbodies**
- Lake
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Mapped Native Vegetation

Appendix E

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Mapped Native Vegetation

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0 300 600 1,200

Metres

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Horizontal Datum: GDA 1994
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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
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Horizontal Datum: GDA 1994
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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- River
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
Revision D
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Metres

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Date	13/03/2019

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Canopy Tree (ENSYM)
- Canopy Tree
- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Polygon included in the ensym

Watercourse

- River
- Stream
- Drain/Channel/O...

Waterbodies

- Lake

Habitat Zones

- FC HZ2 SW

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

GHD

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Metres

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Horizontal Datum: GDA 1994
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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland
- X Wetland

Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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Paper Size A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Township point
- Pump Stations
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Habitat Zones

- FC HZ4 SE

Pipeline Alignment

Not Assessed

- HDD

- Trench
- X Wetland

Assessed

- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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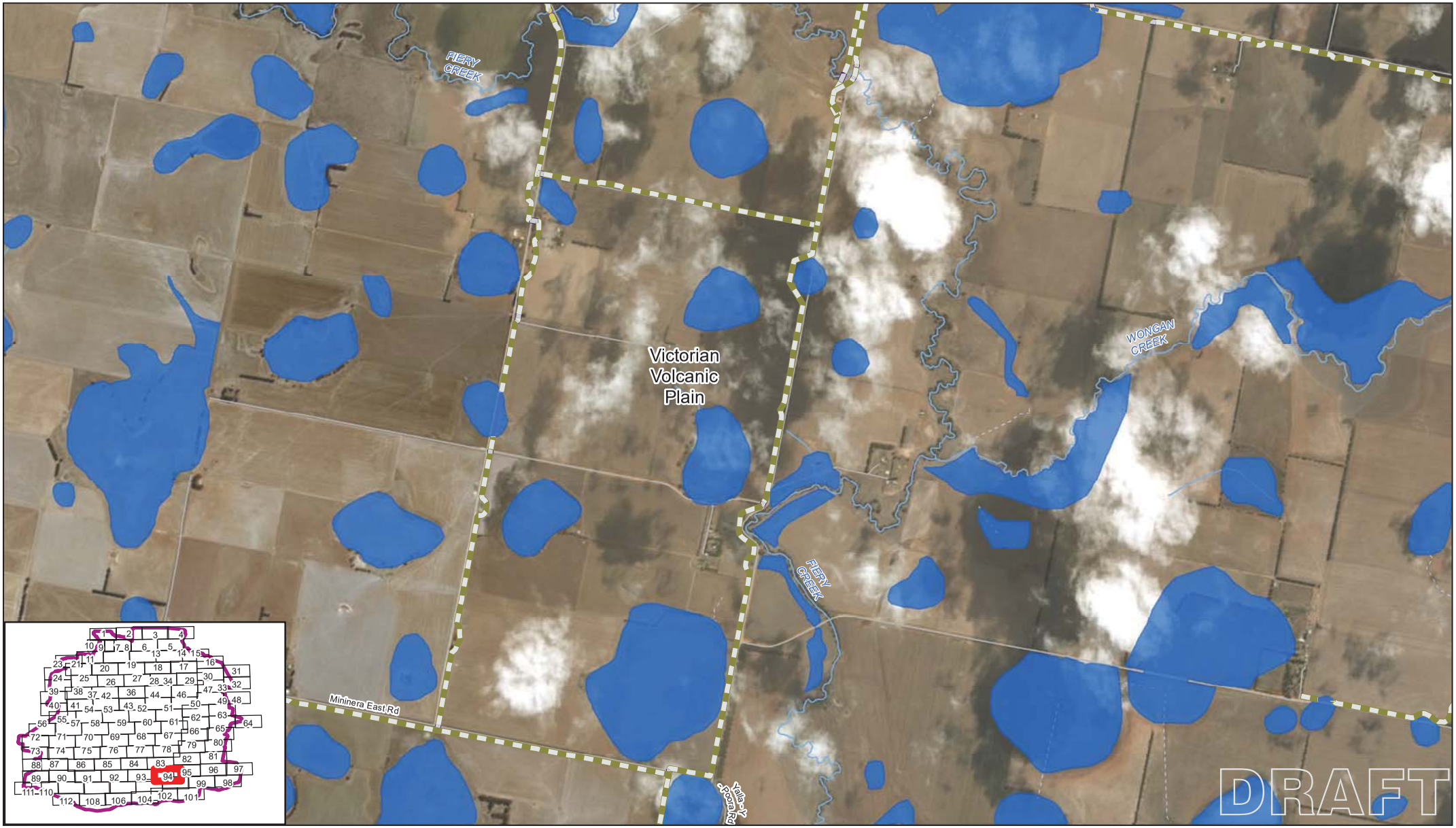

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Lake

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- HDD
- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number 31-36625
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Date 13/03/2019

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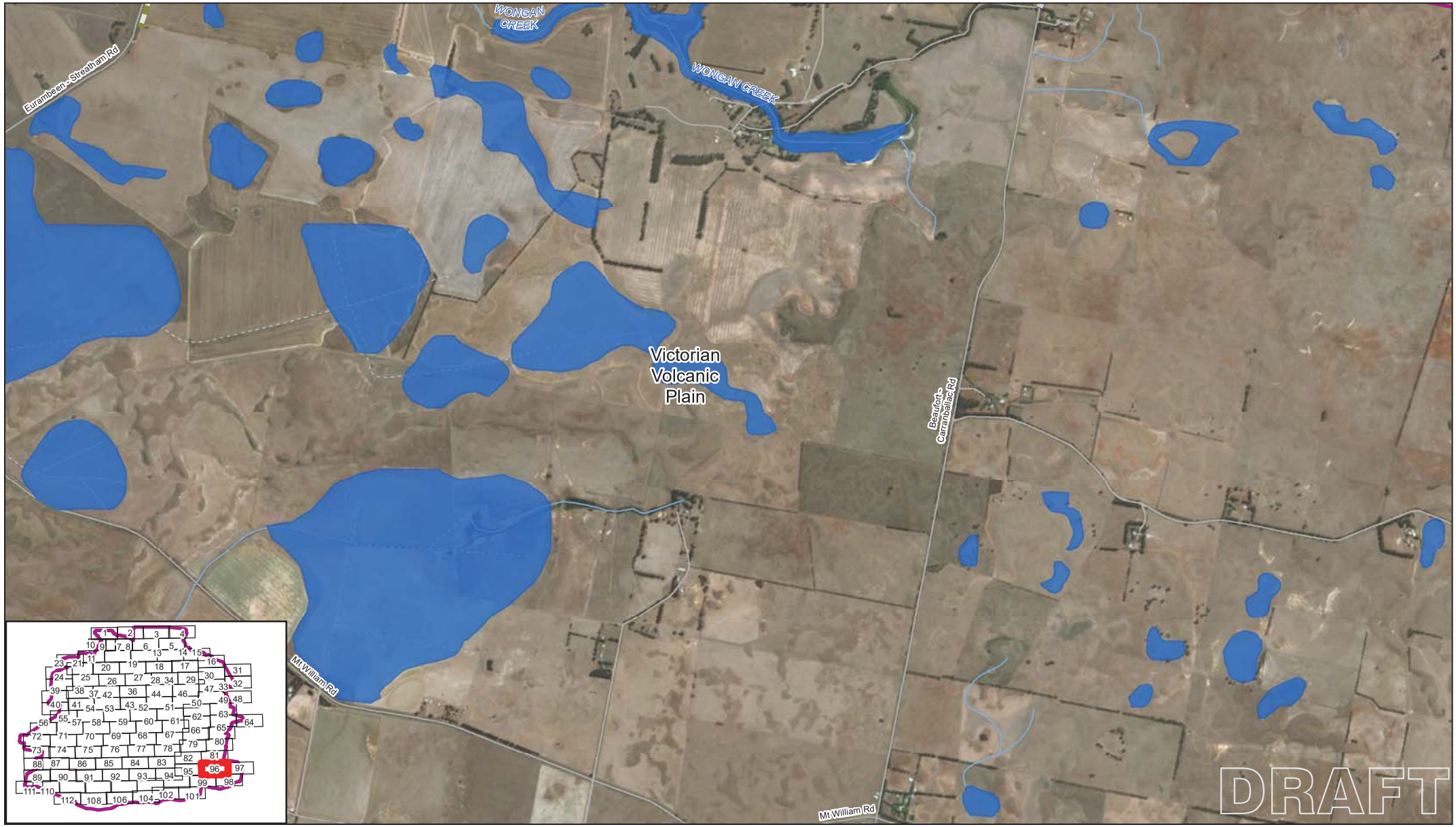

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench

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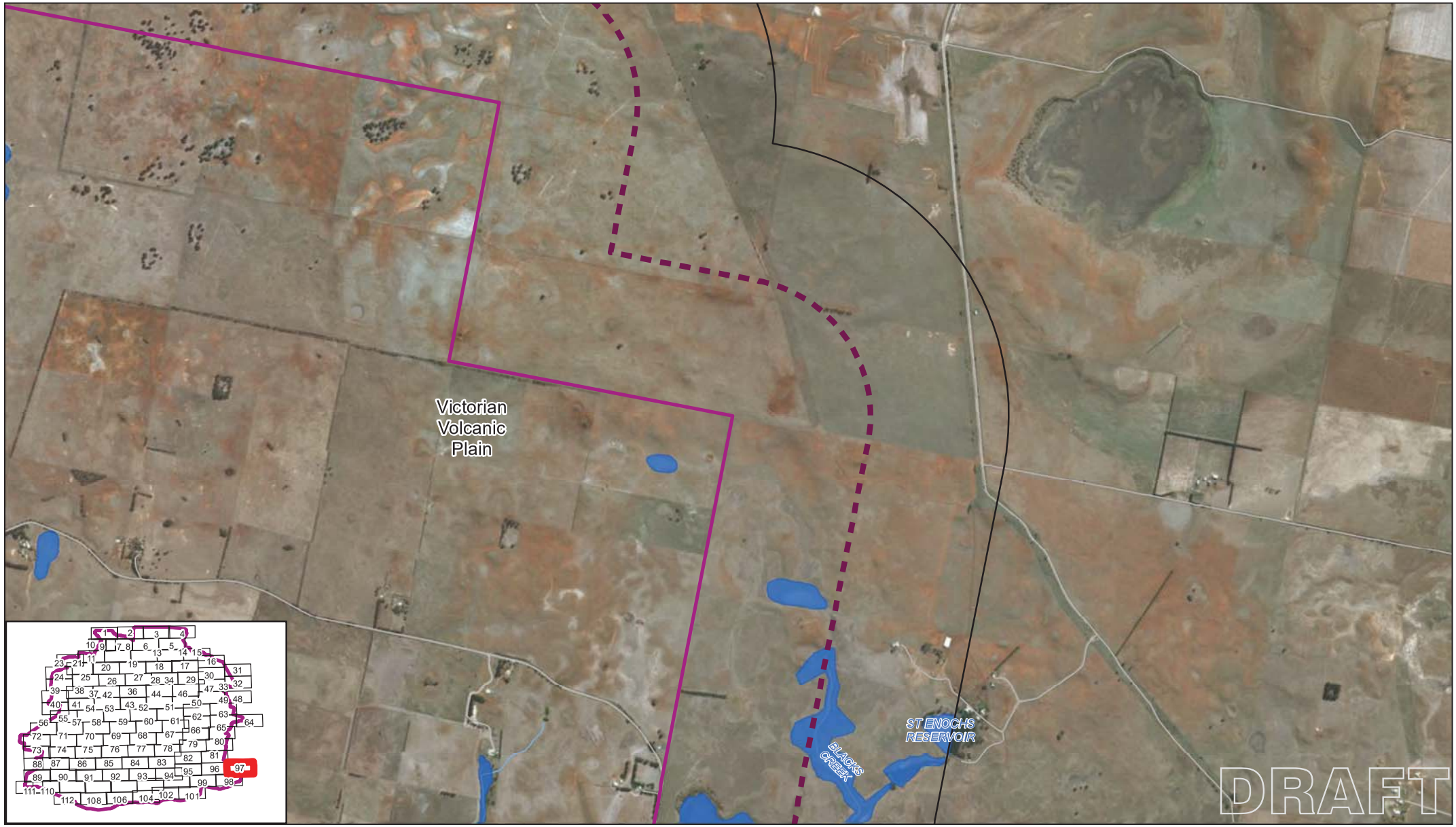

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Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Waterbodies

Watercourse

- Lake
- Stream

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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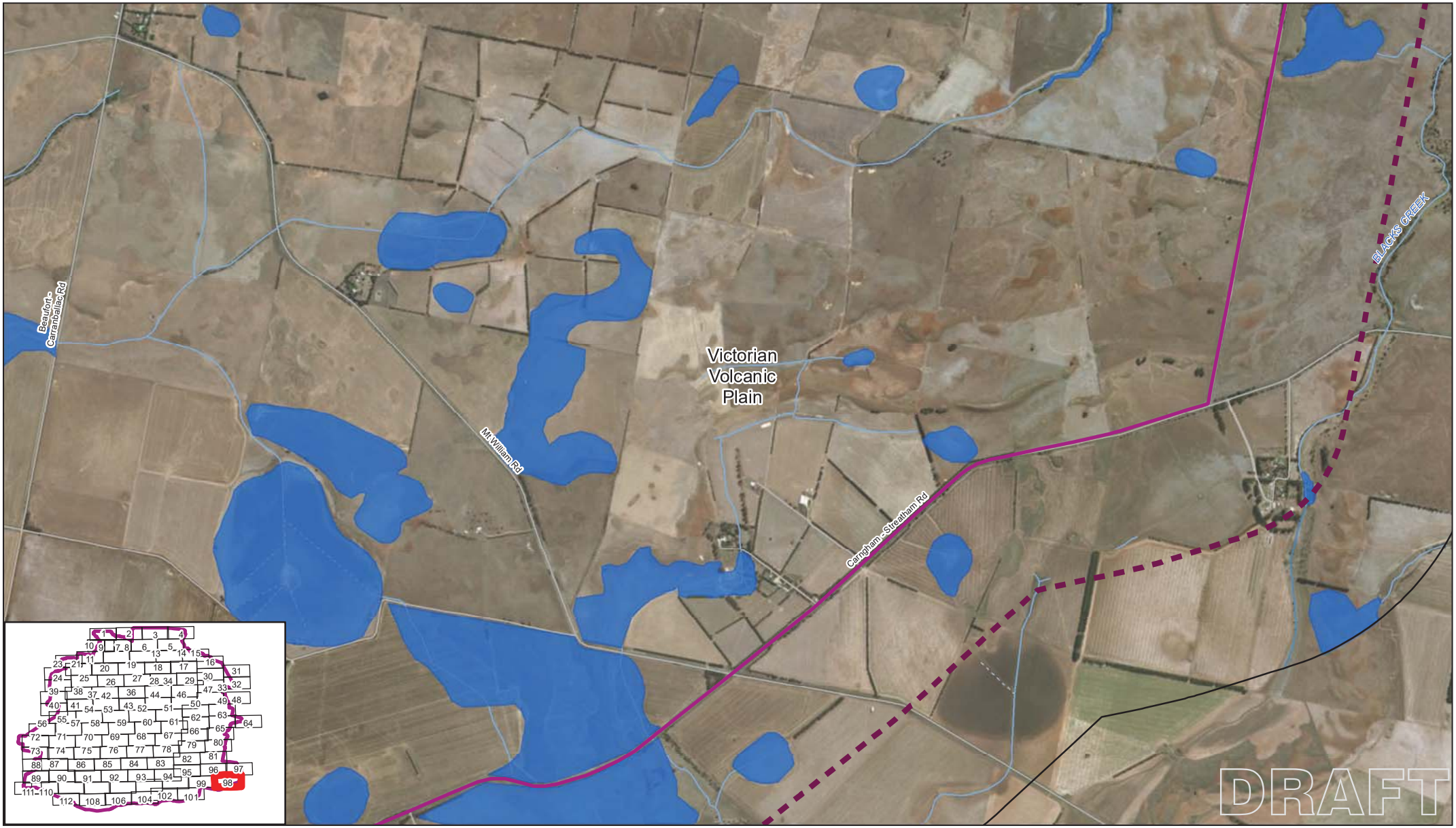

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- River
- Stream
- Drain/Channel/O...

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Pump Stations
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Waterbodies**
- Lake
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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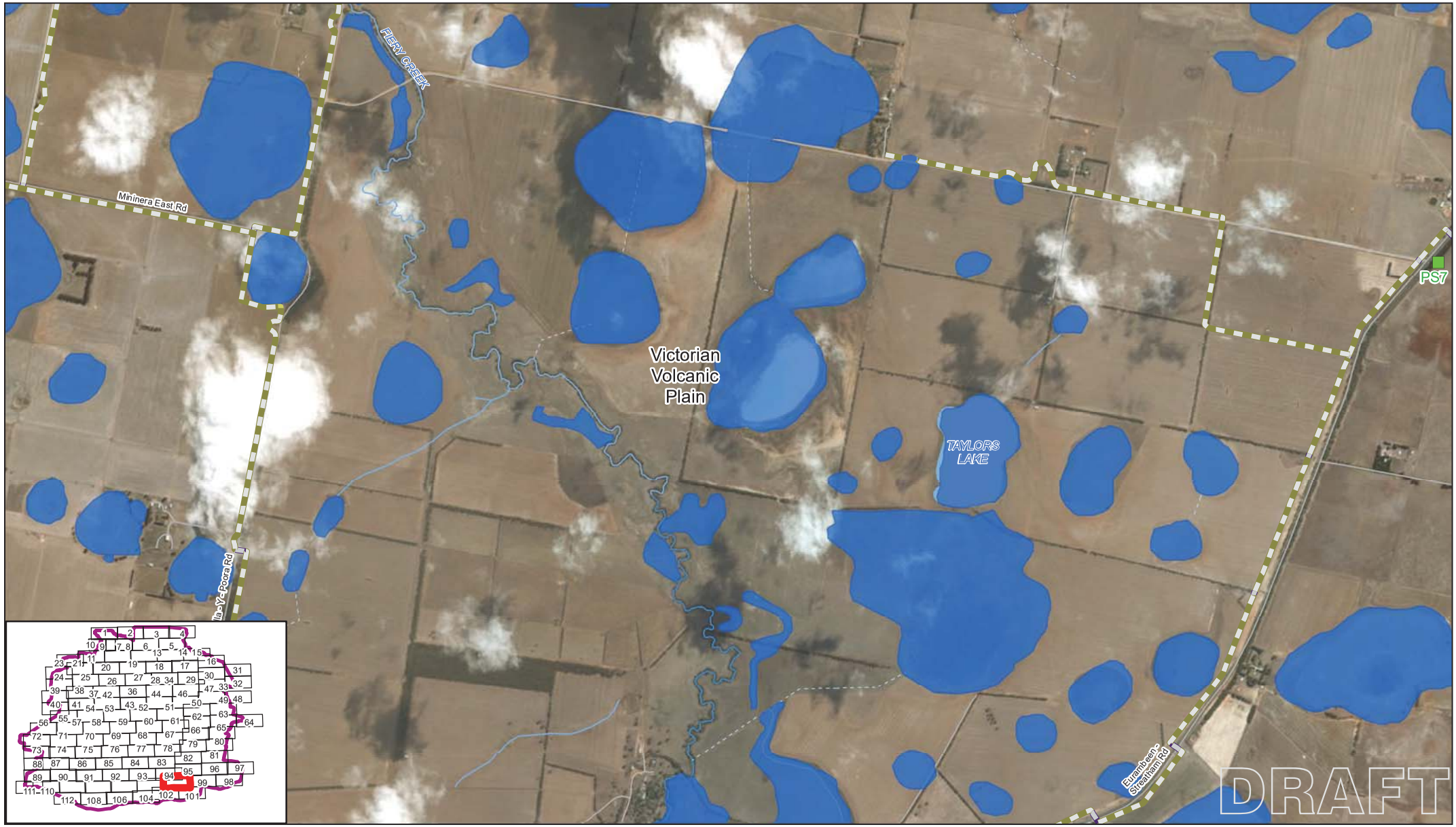

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LEGEND

- Pump Stations
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
  - River
- Stream
- Drain/Channel/O...
- **Waterbodies**
  - Lake
- **Pipeline Alignment**
- **Not Assessed**
  - HDD
  - Trench
- X Wetland
- **Assessed**
  - Trench
  - X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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LEGEND

- Study Area
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- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- Trench
- X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

Job Number	31-36625
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Appendix E

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Paper Size A4

0 300 600 1,200

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

LEGEND

- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
  - River
- Stream
- Drain/Channel/O...
- **Waterbodies**
  - Lake
- **Pipeline Alignment**
- **Not Assessed**
  - HDD
  - Trench
- X Wetland
- **Assessed**
  - Trench
  - X Wetland

Grampians Wimmera Mallee Water
GWMWater East Grampians Pipeline Ecology Surveys

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland
- X Wetland

Assessed

- HDD
- Trench

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LEGEND

- Township point
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- Stream
- Drain/Channel/O...
- **Waterbodies**
- Lake
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- Trench
- X Wetland

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LEGEND

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- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench

Assessed

- Trench
- X Wetland

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Waterbodies

- Lake

Pipeline Alignment

Not Assessed

- HDD
- Trench
- X Wetland

Assessed

- Trench
- X Wetland

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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion

Watercourse

- Stream
- Drain/Channel/O...

Pipeline Alignment

Not Assessed

- HDD
- Trench

Grampians Wimmera Mallee Water
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N

LEGEND

- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- Drain/Channel/O...

Watercourse
- River
- Stream

Waterbodies
- Lake

Pipeline Alignment

Not Assessed
- HDD
- Trench

Assessed
- HDD
- Trench
- X Wetland

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N

LEGEND

- Scattered Tree
- Study Area
- Rural Supply Area Boundary
- Wetland Current
- Road
- Bioregion
- **Watercourse**
- River
- Stream
- Drain/Channel/O...
- **Waterbodies**
- Lake
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

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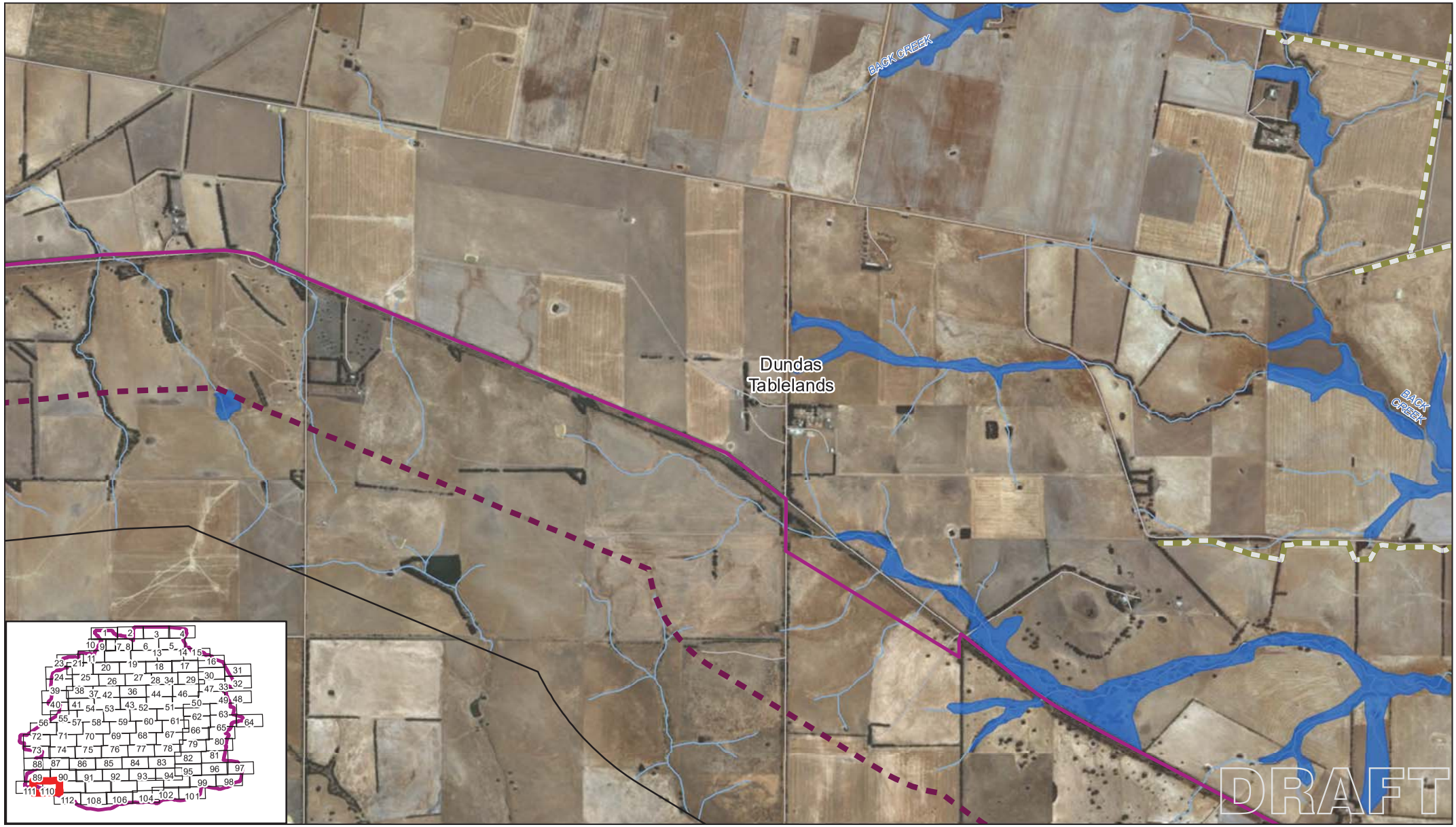

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N

LEGEND

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- Wetland Current
- Road
- Bioregion

Watercourse

- River
- Stream

Pipeline Alignment

Not Assessed

- HDD
- Trench

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N

LEGEND

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- Road
- Bioregion
- **Watercourse**
  - River
- Stream
- Drain/Channel/O...
- **Waterbodies**
  - Lake

Grampians Wimmera Mallee Water
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- Road
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- **Watercourse**
- River
- Stream
- **Pipeline Alignment**
- **Not Assessed**
- HDD
- Trench
- X Wetland
- **Assessed**
- HDD
- Trench
- X Wetland

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Appendix F – EVC descriptions

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
22 Grassy Dry Forest	CVU	Depleted	JH HZ 22 HZ8	This EVC was represented within the alignment in a poor condition with low diversity of understorey species. The canopy, where present, was sparse and consisted of *Eucalyptus camaldulensis* (River Red-gum) and *Eucalyptus goniocalyx* (Bundy). The midstorey was absent with a groundstorey consisting of *Austrostipa scabra* (Rough Spear-grass), *Austrostipa* spp. (Spear Grasses), *Pelargonium rodneyanum* (Magenta Stork's-bill) and *Rytidosperma* spp. (Wallaby Grasses). Introduced species included *Bromus hordeaceus* (Soft Brome), *Hordeum* spp. (Barley Grass) and *Lolium perenne* (Perennial Rye-grass).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
48 Heathy Woodland	CVU	Depleted	JH HZ6 FC HZ2	This EVC was represented in the alignment by mostly cleared and grazed vegetation. The canopy, where it was maintained, was dominated by *Eucalyptus melliodora* (Yellow Box) and *Eucalyptus viminalis* (Manna Gum). The groundstorey was sparse with grasses, herbs and soil crusted with moss and lichens, these included; *Acaena echinata* (Sheep's Burr), *Austrostipa bigeniculata* (Kneed Spear-grass), *Austrostipa scabra* (Rough Spear-grass), *Gonocarpus tetragynus* (Common Raspwort), *Lomandra filiformis* (Wattle Mat-rush), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma* spp. (Wallaby Grasses). Introduced species included *Arctotheca calendula* (Cape weed), *Hordeum* spp. (Barley Grass) and *Romulea rosea* (Onion Grass).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
55 Plains Grassy Woodland	CVU	Endangered	JH HZ15 FC HZ1	This EVC was present in a consistent manner across the alignment. With the canopy dominated by *Eucalyptus camaldulensis* (River Red-gum).The understorey consisted of *Acaena echinata* (Sheep's Burr), *Anthosachne scabra* (Common Wheat-grass), *Austrostipa oligostachya* (Fine-head Spear-grass), *Austrostipa scabra* subsp. *falcata* (Rough Spear-grass), *Juncus* sp. (Rush), *Lomandra filiformis* (Wattle Mat-rush), *Rytidosperma geniculatum* (Kneed Wallaby-grass), *Rytidosperma* sp. (Wallaby Grass) and *Schoenus apogon* (Common Bog-sedge). Introduced species were dominated by *Anthoxanthum odoratum* (Sweet Vernal-grass), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris radicata* (Flatweed), *Lolium perenne* (Perennial Rye-grass) and *Phalaris aquatica* (Toowoomba Canary-grass).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
67 Alluvial Terraces Herb-rich Woodland	CVU	Endangered	JH HZ11 FC HZ3NW HZ9	This EVC was present throughout the alignment in a poor to moderate condition. Variance between Habitat Zones was accounted for by the lack of canopy trees and changes in diversity. The canopy was dominated by *Eucalyptus camaldulensis* (River Red-gum), with some occurrences of *Eucalyptus microcarpa* (Grey Box). The midstorey in more diverse habitat zones consisted of *Acacia dealbata* (Silver Wattle), *Acacia paradoxa* (Hedge Wattle) and *Acacia pycnantha* (Golden Wattle). The groundstorey ranged from low diversity of grasses to high diversity with forbs and grasses. Most habitat zones were dominated by *Austrostipa* spp. (Spear Grasses), *Rytidosperma caespitosum* (Common Wallaby-grass) *and Rytidosperma geniculatum* (Kneed Wallaby-grass). Habitat zones with more diversity included: *Acaena echinata* (Sheep's Burr), *Anthosachne scabra* (Common Wheat-grass), *Arthropodium strictum* (Chocolate Lily), *Astroloma humifusum* (Cranberry Heath), *Austrostipa scabra* (Rough Spear-grass), *Caesia calliantha* (Blue Grass-lily), *Chrysocephalum apiculatum* (Common Everlasting), *Eryngium ovinum* (Blue Devil), *Hypericum japonicum* (Matted St John's Wort), *Juncus* sp. (Rush), *Lomandra filiformis* (Wattle Mat-rush), *Microlaena*	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				stipoides var. *stipoides* (Weeping Grass), *Poa labillardierei* (Common Tussock-grass) and *Pimelea humilis* (Common Rice-flower). Introduced species included *Briza maxima* (Large Quaking-grass), *Hordeum* spp. (Barley Grass) and *Hypochaeris radicata* (Flatweed),	
68 Creekline Grassy Woodland	CVU	Endangered	HZ12	This EVC was present in the alignment as poor condition, due to the very poor diversity. The canopy was dominated by *Eucalyptus camaldulensis* (River Red-gum) with a midstorey dominated by recruiting *Eucalyptus camaldulensis* (River Red-gum). The understorey was dominated by introduced species including *Vulpia bromoides* (Squirrel-tail Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
71 Hills Herb-Rich Woodland	CVU	Vulnerable	FC HZ4 NW FC HZ5a NW	This EVC was present in medium to poor condition throughout the alignment. Variance is attributed to lack of canopy trees and large trees. The canopy, where it persisted, was dominated by *Eucalyptus camaldulensis* (River Red-gum) and *Eucalyptus melliodora* (Yellow Box). The midstorey had a diverse range of shrubs and understorey trees including: *Acacia implexa* (Lightwood), *Allocasuarina verticillata* (Drooping Sheoak), *Dodonaea viscosa* (Hop-bush) and *Hakea decurrens* subsp. *physocarpa* (Bushy Needlewood). In the groundstorey both habitat zones were dominated by *Austrostipa bigeniculata* (Kneed Spear-grass), *Austrostipa oligostachya* (Fine-head Spear-grass), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma geniculatum* (Kneed Wallaby-grass). However, the habitat zone with the higher quality had a greater diversity of species, some of these include: *Acaena echinata* (Sheep's Burr), *Anthosachne scabra* (Common Wheat-grass), *Austrostipa scabra* subsp. *falcata* (Rough Spear-grass), *Chrysocephalum apiculatum* (Common Everlasting), *Dianella revoluta* (Black-anther Flax-lily) and *Lomandra filiformis* (Wattle Mat-rush). Introduced species included *Acetosella vulgaris* (Sheep Sorrel), *Avena* spp. (Oat), *Briza maxima*	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				(Large Quaking-grass), *Briza minor* (Lesser Quaking-grass), *Disa bracteata* (South African Orchid), *Hypochaeris radicata* (Flatweed), *Phalaris aquatica* (Toowoomba Canary-grass) and *Rosa rubiginosa* (Sweet Briar).	
72 Granitic Hills Woodland	CVU	Depleted	JH HZ 17 HZ5	This EVC was defined by two habitat zones within the alignment. JH HZ17 had no canopy present, however JW KD HZ5 had a canopy of *Eucalyptus blakelyi* (Blakely's Red-gum). The Understorey for both habitat zones was dominated by *Austrostipa scabra* (Rough Spear-grass), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma geniculatum* (Kneed Wallaby-grass). Introduced species included *Aira* spp. (Hair Grass), *Hypochaeris radicata* (Flatweed), *Romulea rosea* (Onion Grass) and *Vulpia bromoides* (Squirrel-tail Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
134 Sand Forest	CVU	Endangered	HZ11	This EVC was represented by just one habitat zone, which lacked a canopy layer. The understorey consisted of *Acacia melanoxylon* (Blackwood) and *Leptospermum continentale* (Prickly Tea-tree). The groundstorey was dominated by introduced species including: *Anthoxanthum odoratum* (Sweet Vernal-grass), *Holcus lanatus* (Yorkshire Fog) *and Hypochaeris radicata* (Flatweed).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
175_61 Grassy Woodland	CVU	Endangered	JH HZ10 HZ10	This EVC was represented throughout the alignment in a moderate condition. Where the canopy persisted it was dominated by *Eucalyptus viminalis* (Manna Gum). The understorey consisted of *Austrostipa scabra* (Rough Spear-grass), *Lomandra filiformis* (Wattle Mat-rush) and *Rytidosperma setaceum* (Bristly Wallaby-grass). Introduces species included *Rumex crispus* (Curled Dock) and *Erodium cicutarium* (Common Heron's-bill).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
3 Damp Sands Herb-rich Woodland	Dundas	Vulnerable	FC HZ1SW	This EVC was present in the alignment without a canopy. The understorey consisted of: *Austrostipa bigeniculata* (Kneed Spear-grass), *Juncus procerus* (Tall Rush), *Juncus subsecundus* (Finger Rush), *Pteridium esculentum* subsp. *esculentum* (Austral Bracken) and *Rytidosperma setaceum* (Bristly Wallaby-grass). Introduced species included *Acetosella vulgaris* (Sheep Sorrel), *Arctotheca calendula* (Cape weed), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris glabra* (Smooth Cat's-ear), *Lolium* spp. (Rye Grass), *Trifolium* spp. (Clover) and *Vulpia* spp. (Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
55 Plains Grassy Woodland	Dundas	Endangered	JH HZ 23 JH HZ 25 FC HZ2SW	This EVC was present throughout the alignment with similar condition, however disjunct habitat zones. The canopy was dominated by *Eucalyptus camaldulensis* (River Red-gum). The understorey was highly disturbed but retained a variety of grasses including: *Amphibromus neesii* (Southern Swamp Wallaby-grass), *Anthosachne scabra* (Common Wheat-grass), *Austrostipa* sp. (Spear Grass), *Eleocharis acuta (*Common Spike-sedge), *Rytidosperma caespitosum* (Common Wallaby-grass), *Rytidosperma* sp. (Wallaby Grass). Introduced species included *Aira* spp. (Hair Grass), *Briza maxima* (Large Quaking-grass), *Bromus hordeaceus* (Soft Brome), *Holcus lanatus* (Yorkshire Fog), *Hordeum* spp. (Barley Grass), *Phalaris aquatica* (Toowoomba Canary-grass) and *Rumex crispus* (Curled Dock).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
68 Creekline Grassy Woodland	Dundas	Endangered	JH HZ 24	This EVC was present in a few locations within the alignment. The canopy was dominated by *Eucalyptus camaldulensis* (River Red-gum), with understorey trees of *Acacia dealbata* (Silver Wattle) also forming the canopy. The midstorey consisted of large *Acacia paradoxa* (Hedge Wattle) with recruitment of both tree species. The groundstorey consisted of *Anthosachne scabra* (Common Wheat-grass), *Geranium retrorsum* (Grassland Crane's-bill), *Juncus subsecundus* (Finger Rush), *Microlaena stipoides* var. *stipoides* (Weeping Grass) and *Poa labillardierei* (Common Tussock-grass). Introduced species include *Acetosella vulgaris* (Sheep Sorrel), *Briza maxima* (Large Quaking-grass), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris radicata* (Flatweed), *Plantago lanceolata* (Ribwort) and *Rubus fruticosus* spp. agg. (Blackberry).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
20 Heathy Dry Forest	Goldfields	Least Concern	FC HZ10a NW	This EVC was represented by one habitat zone within the alignment. The canopy was co-dominated by *Eucalyptus goniocalyx* (Bundy) and *Eucalyptus melliodora* (Yellow Box). The understorey was open with occurrences of *Acacia paradoxa* (Hedge Wattle), *Acacia pycnantha* (Golden Wattle), *Hibbertia australis* (Upright Guinea-flower) and *Leptospermum myrsinoides* (Heath Tea-tree). The groundstorey was diverse including: *Austrostipa scabra* (Rough Spear-grass), *Brunonia australis* (Blue Pincushion), *Chrysocephalum apiculatum* (Common Everlasting), *Dianella revoluta* (Black-anther Flax-lily), *Lomandra filiformis* (Wattle Mat-rush), *Pimelea humilis* (Common Rice-flower), *Rytidosperma geniculatum* (Kneed Wallaby-grass) and *Themeda triandra* (Kangaroo Grass). Introduced species included *Aira* spp. (Hair Grass), *Briza maxima* (Large Quaking-grass), *Dactylis glomerata* (Cocksfoot), *Hypochaeris radicata* (Flatweed), *Lolium perenne* (Perennial Rye-grass), *Trifolium* spp. (Clover) and *Vulpia* spp. (Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
22 Grassy Dry Forest	Goldfields	Depleted	JH HZ3 HZ1 HZ4	This EVC was present in a variety of forms within the alignment. Some habitat zones retained a canopy, whereas some habitat zones had been cleared with only the understorey persisting. Where the canopy persisted it consisted of *Eucalyptus goniocalyx* (Bundy) and *Eucalyptus melliodora* (Yellow Box). The midstorey consisted of *Acacia dealbata* (Silver Wattle), *Acacia paradoxa* (Hedge Wattle) and *Acacia pycnantha* (Golden Wattle). The understorey ranged from high diversity to a low diversity with grass dominating. In all habitat zones the dominant grasses include: *Austrostipa mollis* (Supple Spear-grass), *Austrostipa scabra* (Rough Spear-grass), *Microlaena stipoides* var. *stipoides* (Weeping Grass), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma* sp. (Wallaby Grass). The groundstorey in high diversity habitat zones consists of a wider range of herbs and grasses including: *Acaena echinata* (Sheep's Burr), *Anthosachne scabra* (Common Wheat-grass), *Astroloma humifusum* (Cranberry Heath), *Calocephalus lacteus* (Milky Beauty-heads), *Dianella revoluta* (Black-anther Flax-lily), *Eryngium ovinum* (Blue Devil), *Lomandra nana* (Dwarf Mat-rush), *Pelargonium rodneyanum* (Magenta Stork's-bill), *Poa labillardierei* (Common Tussock-grass), *Themeda triandra*	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				(Kangaroo Grass) and *Wahlenbergia gracilis* (Sprawling Bluebell). Introduced species included *Acetosella vulgaris* (Sheep Sorrel), *Arctotheca calendula* (Cape weed), *Bromus hordeaceus* (Soft Brome), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris radicata* (Flatweed), *Romulea rosea* (Onion Grass), *Trifolium repens* var. *repens* (White Clover) and *Vulpia bromoides* (Squirrel-tail Fescue).	
48 Heathy Woodland	Goldfields	Depleted	JH HZ9	This EVC is represented within the alignment by only one habitat zone that has had the canopy cleared. The understorey is dominated by *Anthosachne scabra* (Common Wheat-grass), *Austrostipa mollis* (Supple Spear-grass), *Austrostipa scabra* (Rough Spear-grass), *Gonocarpus tetragynus* (Common Raspwort), *Lomandra filiformis* (Wattle Mat-rush), *Rytidosperma caespitosum* (Common Wallaby-grass), and *Themeda triandra* (Kangaroo Grass). Introduced species included *Avena* spp. (Oat), *Briza minor* (Lesser Quaking-grass) and *Vulpia* spp. (Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
55 Plains Grassy Woodland	Gold	Endangered	JH HZ7 JH HZ8 FC HZ6a NW	This EVC was present in the alignment in three different habitat zones that ranged from having canopy trees present to having a cleared canopy. Where a canopy was present the dominant species was *Allocasuarina verticillata* (Drooping Sheoak) and *Eucalyptus camaldulensis* (River Red-gum). No midstorey was present, however the understorey consisted of a wide range of forbs and grasses. These included: *Acaena echinata* (Sheep's Burr), *Astroloma humifusum* (Cranberry Heath), *Austrostipa oligostachya* (Fine-head Spear-grass), *Austrostipa scabra* (Rough Spear-grass), *Chrysocephalum apiculatum* (Common Everlasting), *Goodenia geniculata* (Bent Goodenia), *Thelymitra* sp. (Sun Orchid), *Themeda triandra* (Kangaroo Grass), and *Tricoryne elatior* (Yellow Rush-lily). Introduced species included *Aira* spp. (Hair Grass), *Arctotheca calendula* (Cape weed), *Briza maxima* (Large Quaking-grass), *Dactylis glomerata* (Cocksfoot), *Hordeum* spp. (Barley Grass), *Hypochaeris radicata* (Flatweed), *Romulea rosea* (Onion Grass), *Rumex crispus* (Curled Dock) and *Trifolium* spp. (Clover).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
56 Floodplain Riparian Woodland	Goldfields	Endangered	JH HZ 19	This EVC was represented in one habitat zone within the alignment. The canopy was sparse with large *Eucalyptus camaldulensis* (River Red-gum). The understorey has been highly disturbed and a grassy groundstorey remains. This includes: *Anthosachne scabra* (Common Wheat-grass), *Austrostipa* spp. (Spear Grasses), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma* spp. (Wallaby Grasses). Introduced species included *Bromus hordeaceus* (Soft Brome), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris radicata* (Flatweed) and *Trifolium* spp. (Clover).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
67 Alluvial Terraces Herb-rich Woodland	Goldfields	Endangered	JH HZ2 FC HZ9b NW FC HZ9c NW HZ3	This EVC was represented by four habitat zones within the pipeline. Variance between each habitat zone was defined by the presence and abundance of large trees and the diversity of the understorey. The open woodland consisted of *Eucalyptus camaldulensis* (River Red-gum), *Eucalyptus leucoxylon* subsp. *leucoxylon* (Yellow Gum) and *Eucalyptus melliodora* (Yellow Box). The understorey in all habitat zones was dominated by *Austrostipa bigeniculata* (Kneed Spear-grass), *Austrostipa mollis* (Supple Spear-grass), *Austrostipa scabra* (Rough Spear-grass), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma geniculatum* (Kneed Wallaby-grass). Higher quality Habitat Zones contained a variety of forbs and grasses including: *Asperula conferta* (Common Woodruff), *Eryngium ovinum* (Blue Devil), *Geranium* sp. (Crane's Bill), *Lomandra filiformis* (Wattle Mat-rush) and *Themeda triandra* (Kangaroo Grass). Introduced species included *Ehrharta erecta* (Panic Veldt-grass), *Gladiolus tristis* (Evening-flower Gladiolus), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris radicata* (Flatweed), *Oxalis pes-caprae* (Soursob), *Rubus fruticosus* spp.	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				agg. (Blackberry), *Ulex europaeus* (Gorse) and *Vulpia* spp. (Fescue).	
68 Creekline Grassy Woodland	Gold	Endangered	JH HZ5	This EVC was represented by one habitat zone within the alignment. The habitat zone was of moderate condition and contained a partially cleared canopy over a disturbed understorey. The canopy consisted of *Eucalyptus camaldulensis* (River Red-gum), with the understorey consisting of *Austrostipa bigeniculata* (Kneed Spear-grass*), Austrostipa scabra* (Rough Spear-grass), *Austrostipa* spp. (Spear Grasses) and *Rytidosperma* spp. (Wallaby Grasses). Introduced species included *Avena* spp. (Oat), *Cynodon dactylon* var. *dactylon* (Couch), *Holcus lanatus* (Yorkshire Fog), *Hypochaeris radicata* (Flatweed), *Juncus acutus* subsp. *acutus* (Spiny	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				Rush), *Lolium* spp. (Rye Grass) and *Trifolium* spp. (Clover).	
175_61 *Low Rises* Grassy Woodland	Goldfields	Vulnerable	JH HZ1 JH HZ4 FC HZ8 NW HZ2	This EVC was present in the alignment as four distinct habitat zones. These habitat zones varied in large trees, canopy cover and the diversity of the understorey. The canopy consisted of *Eucalyptus camaldulensis* (River Red-gum), *Eucalyptus leucoxylon* subsp. *leucoxylon* (Yellow Gum) and *Eucalyptus microcarpa* (Grey Box). The understorey ranged from high diversity to a low diversity with grass dominating. In all habitat zones the dominant grasses include: *Austrostipa mollis* (Supple Spear-grass), *Austrostipa scabra* (Rough Spear-grass), *Microlaena stipoides* var. *stipoides* (Weeping Grass), *Rytidosperma caespitosum* (Common Wallaby-grass) and *Rytidosperma* sp. (Wallaby Grass). The groundstorey in high diversity habitat zones consists of a wider range of forbs and graminoids including: *Acaena echinata* (Sheep's Burr), *Anthosachne scabra* (Common Wheat-grass), *Arthropodium strictum* (Chocolate Lily, *Astroloma humifusum* (Cranberry Heath), *Calocephalus lacteus* (Milky Beauty-heads), *Dianella revoluta* (Black-anther Flax-lily), *Eryngium ovinum* (Blue Devil), *Lomandra filiformis* (Wattle Mat-rush), *Pelargonium rodneyanum* (Magenta Stork's-bill),	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				Pimelea humilis (Common Rice-flower), *Solenogyne dominii* (Smooth Solenogyne), *Themeda triandra* (Kangaroo Grass) and *Wahlenbergia gracilis* (Sprawling Bluebell). Introduced species included *Aira* spp. (Hair Grass), *Briza minor* (Lesser Quaking-grass), *Romulea rosea* (Onion Grass) and *Vulpia* spp. (Fescue).	
55_61 Plains Grassy Woodland	VVP	Endangered	JH HZ 13 FC HZ6 SE HZ7	This EVC was present within the alignment in a cleared form with only the understorey persisting and with a canopy with a poor quality understorey. Where the canopy persisted it was dominated by *Eucalyptus camaldulensis* (River Red-gum). Where the understorey persisted it consisted of *Anthosachne scabra* (Common Wheat-grass), *Austrostipa scabra* (Rough Spear-grass), *Phragmites australis* (Common Reed), *Poa labillardierei (*Common Tussock-grass), *Rytidosperma caespitosum* (Common Wallaby-grass), *Rytidosperma* sp. (Wallaby Grass). Introduced species included *Acetosella vulgaris* (Sheep Sorrel), *Bromus hordeaceus* (Soft Brome), *Dactylis glomerata* (Cocksfoot), *Hypericum perforatum* subsp. *veronense* (St John's Wort), *Hypochaeris radicata* (Flatweed),	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				Phalaris aquatica (Toowoomba Canary-grass), *Rosa rubiginosa* (Sweet Briar) and *Ulex europaeus* (Gorse).	
56 Floodplain Riparian Woodland	VVP	Endangered	JH HZ 18	This EVC was represented by only one habitat zone within the alignment. The habitat zone was present as large trees with no understorey present. The canopy consisted of *Eucalyptus camaldulensis* (River Red-gum). The understorey has been completely replaced with introduced species. Introduced species included *Avena fatua* (Wild Oat), *Bromus hordeaceus* (Soft Brome), *Holcus lanatus* (Yorkshire Fog), *Phalaris aquatica* (Toowoomba Canary-grass) and *Vulpia* spp. (Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
125 Plains Grassy Wetland	VVP	Endangered	JH HZ 20 FCHZ4 SE	This EVC was represented by three Habitat Zones in the alignment. All the habitat zones were of poor condition and had a high cover of introduced species. Each habitat zone was dominated by a different species, these included *Juncus flavidus (*Gold Rush), *Glyceria australis* (Australian Sweet-grass) and *Poa labillardierei* var. (Volcanic Plains) (Basalt Tussock-grass). A variety of wetland species were present throughout, including *Eleocharis acuta* (Common Spike-sedge), *Eragrostis infecunda* (Southern Cane-grass), *Epilobium billardierianum* subsp. *cinereum* (Grey Willow-herb), *Geranium retrorsum* (Grassland Crane's-bill), *Juncus bufonius* (Toad Rush), *Lachnagrostis filiformis* (Common Blown-grass), *Lythrum hyssopifolia* (Small Loosestrife) and *Rumex brownii* (Slender Dock). Introduced species included *Cirsium vulgare* (Spear Thistle), *Holcus lanatus* (Yorkshire Fog), *Phalaris aquatica* (Toowoomba Canary-grass) and *Rumex crispus* (Curled Dock).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
132_61 Heavier-Soils Plains Grassland	VVP	Endangered	JH HZ 14 JH HZ 16	This EVC was represented by two habitat zones which had a large difference in condition. The lower quality grassland was dominated by *Austrostipa oligostachya* (Fine-head Spear-grass) and *Austrostipa scabra* (Rough Spear-grass). Other grassland species included: *Convolvulus erubescens* (Pink Bindweed), *Eutaxia microphylla* (Common Eutaxia), *Poa labillardierei* (Common Tussock-grass), *Rytidosperma caespitosum* (Common Wallaby-grass), *Rytidosperma geniculatum* (Kneed Wallaby-grass) and *Schoenus apogon* (Common Bog-sedge). The higher quality grassland was represented by only one patch within the alignment, which was dominated by *Themeda triandra* (Kangaroo Grass). This patch contained a high diversity of forbs and grasses such as: *Asperula conferta* (Common Woodruff), *Austrostipa* spp. (Spear Grasses), *Bossiaea prostrata* (Creeping Bossiaea), *Calocephalus lacteus* (Milky Beauty-heads), *Convolvulus erubescens* (Pink Bindweed), *Eryngium ovinum* (Blue Devil), *Goodenia geniculata* (Bent Goodenia), *Leptorhynchos squamatus* (Scaly Buttons), *Pimelea curviflora* (Curved Rice-flower), *Goodenia geniculata* (Bent Goodenia), *Rytidosperma geniculatum* (Kneed Wallaby-	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
				grass) and *Solenogyne dominii* (Smooth Solenogyne). Exposed rock was present throughout the higher quality patch. Introduced species included *Cirsium vulgare* (Spear Thistle), *Lolium perenne* (Perennial Rye-grass), *Phalaris aquatica* (Toowoomba Canary-grass) and *Vulpia* spp. (Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
175_61 Non-Eucalypt Grassy Woodland	VVP	Endangered	HZ6	This EVC was represented by one habitat zone. No canopy species were present, however the understorey was dominated by *Themeda triandra* (Kangaroo Grass). The understorey also contained: *Austrostipa* spp. (Spear Grasses), *Calocephalus lacteus* (Milky Beauty-heads), *Eryngium ovinum* (Blue Devil), *Microlaena stipoides* var. *stipoides* (Weeping Grass), *Poa labillardierei* (Common Tussock-grass) and *Rytidosperma setaceum* (Bristly Wallaby-grass). Introduced species included *Avena fatua* (Wild Oat), *Cirsium vulgare* (Spear Thistle) and *Hypochaeris radicata* (Flatweed).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
641 Riparian Woodland	VVP	Endangered	FC HZ3aSE	This EVC was represented by one habitat zone which consisted of a poor condition vegetation. The canopy consisted of *Eucalyptus camaldulensis* (River Red-gum). The understorey where present consists of *Carex breviculmis* (Common Grass-sedge), *Carex* sp. (Sedge), *Juncus flavidus* (Gold Rush), *Marsilea hirsuta* (Short-fruit Nardoo). Introduced species included *Acetosella vulgaris* (Sheep Sorrel), *Avena* spp. (Oat), *Cirsium vulgare* (Spear Thistle), *Phalaris aquatica* (Toowoomba Canary-grass), *Trifolium* spp. (Clover) and *Vulpia* spp. (Fescue).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
647 Plains Sedgy Wetland	VVP	Endangered	JH HZ 21	This EVC was represented by one habitat zone within the alignment. The drainage line that this habitat zone was mapped within was dominated by *Carex* sp. (Sedge) and *Lachnagrostis filiformis* (Common Blown-grass). Some forbs and grasses were also present within this habitat zone including: *Distichlis distichophylla* (Australian Salt-grass), *Senecio quadridentatus* (Cotton Fireweed), *Plantago varia* (Variable Plantain), *Poa labillardierei* (Common Tussock-grass) and *Potamogeton tricarinatus* (Floating Pondweed). Introduced species included *Medicago polymorpha* (Burr Medic), *Phalaris aquatica* (Toowoomba Canary-grass), *Plantago coronopus* (Buck's-horn Plantain) and *Rumex crispus* (Curled Dock).	

F EVC	Bioregion	Conservation Status	Habitat Zone	Description	Photo
55 Plains Grassy Woodland	Wimmera	Endangered	HZ13	This EVC was represented by only one habitat zone. This habitat zone had no large trees and an understorey of poor condition. The canopy was dominated by *Eucalyptus camaldulensis* (River Red-gum), with understorey trees including *Acacia mearnsii* (Black Wattle). The understorey consisted of: *Astroloma humifusum* (Cranberry Heath), *Austrostipa scabra* (Rough Spear-grass), *Juncus* sp. (Rush) and *Themeda triandra* (Kangaroo Grass). Introduced species included *Briza maxima* (Large Quaking-grass), *Hypochaeris radicata* (Flatweed) and *Phalaris aquatica* (Toowoomba Canary-grass).	

Appendix G – Habitat Hectare Scores

Key to table

EVC	Ecological Vegetation Class
22	Grassy Dry Forest
48	Heathy Woodland
55	Plains Grassy Woodland
67	Alluvial Terraces Herb-rich Woodland
68	Creekline Grassy Woodland
71	Hills Herb-rich Woodland
72	Granitic Hills Woodland
134	Sand Forest
175	Grassy Woodland
3	Damp Sands Herb-rich Woodland
20	Heathy Dry Forset
56	Floodplain Riparian Woodland
125	Plains Grassy Wetland
132	Plains Grassland
641	Riparian Woodland
647	Plains Sedgy Wetland

Bioregion

CVU	Central Victorian Uplands Bioregion
Dundas	Dundas Tablelands Bioregion
Gold	Goldfields Bioregion
VVP	Victorian Volcanic Plains Bioregion
Wim	Wimmera Bioregion

Habitat Zo	JH HZ1	JH HZ2	JH HZ3	JH HZ4	JH HZ5	JH HZ6	JH HZ7	JH HZ8	JH HZ9	JH HZ10	JH HZ11	JH HZ 13	JH HZ 14	JH HZ15
EVC	175	67	22	175	68	48	55	55	48	175	67	55	132	55
Bioregion	Gold	Gold	Gold	Gold	Gold	CVU	Gold	Gold	Gold	CVU	CVU	VVP	VVP	CVU
LT	0	2	2	0	9	3	9	0	0	5	5	0	5	2
TCC	0	0	2	3	2	3	4	0	0	2	2	0	0	0
LW	9	5	4	11	9	9	2	7	7	7	7	2	0	6
U	15	5	10	20	5	5	5	15	15	5	10	5	2	5
R	5	5	1	3	0	0	0	5	0	5	0	0		5
OL	3	5	2	3	4	4	4	5	3	5	4	2		4
L	0	5	0	0	0	0	3	2	0	0	0	0		2
Site Condit	32	27	21	40	29	24	27	34	25	29	28	9	7	24
Standardiz	1	1	1	1	1	1	1	1	1	1	1	1	1.36	1
Adjusted S	32	27	21	40	29	24	27	34	25	29	28	9	9.52	24
P	8	2	6	8	1	4	8	2	1	4	8	8	1	2
N	2	1	1	2	1	3	4	3	0	0	1	0	0	1
DC	1	0	2	1	0	3	1	0	1	0	4	4	1	3
Landscape	11	3	9	11	2	10	13	5	2	4	13	12	2	6
Total	43	30	30	51	31	34	40	39	27	33	41	21	11.52	30

JH HZ 16	JH HZ 17	JH HZ 18	JH HZ 19	JH HZ 20	JH HZ 21	JH HZ 22	JH HZ 23	JH HZ 24	JH HZ 25	FC HZ1	FC HZ1SW	FC HZ2	FC HZ2SW	FC HZ3NW
132	72	56	56	125	647	22	55	68	55	55	3	48	55	67
VVP	CVU	VVP	Gold	VVP	VVP	CVU	Dundas	Dundas	Dundas	CVU	Dundas	CVU	Dundas	CVU
15	0	10	5	5	0	0	2	8	2	4	0	0	10	0
9	0	3	2	4	0	0	4	5	4	0	0	0	3	0
10	11	6	6	0	7	6	2	4	6	0	6	2	2	7
3	5	0	5	5	10	5	5	10	5	5	5	5	0	5
	0	0	0		0	0	0	3	0	5	0	5	0	5
	5	4	3		5	3	2	5	2	4	2	0	5	5
	0	2	0		0	0	2	4	0	5	0	0	5	0
37	21	25	21	14	22	14	17	39	19	23	13	12	25	22
1.36	1	1	1	1.36	1.36	1	1	1	1	1	1	1	1	1
50.32	21	25	21	19.04	29.92	14	17	39	19	23	13	12	25	22
1	1	1	1	1	1	4	4	4	8	1	1	1	1	1
0	1	1	2	2	0	0	3	2	4	1	1	2	0	1
0	1	1	0	3	0	0	2	3	5	1	0	3	1	3
1	3	3	3	6	1	4	9	9	17	3	2	6	2	5
51.32	24	28	24	25.04	30.92	18	26	48	36	26	15	18	27	27

FC HZ3aSE	FCHZ4 SE	FC HZ4 NW	FC HZ5a N	FC HZ6a N	FC HZ6 SE	FC HZ7 NW	FC HZ8 NW	FC HZ9b N	FC HZ9c N	FC HZ10a N	FC HZ11	HZ1	HZ2	HZ3
641	125	71	71	55	55	55	175	67	67	20	175	22	175	67
VVP	VVP	CVU	CVU	Gold	VVP	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
0	0	6	0	0	8	0	0	6	3	4	8	0	5	0
2	0	5	0	0	5	0	0	5	5	3	3	0	2	4
2	0	6	6	6	6	6	6	7	2	7	6	15	2	2
5	15	15	5	5	5	5	15	5	5	5	15	15	5	5
0	0	3	0	0	5	0	3	5	0	5	3	5	5	5
4	5	5	4	4	2	4	5	4	3	4	4	4	2	2
0	0	3	0	0	4	0	0	0	4	0	0	0	0	0
13	20	43	15	15	35	15	29	32	22	28	39	39	21	18
1	1.36	1	1	1	1	1	1	1	1	1	1	1	1	1
13	27.2	43	15	15	35	15	29	32	22	28	39	39	21	18
1	1	1	1	1	1	1	1	1	1	1	1	4	1	2
0	0	1	1	1	0	1	2	3	0	3	3	5	1	1
0	0	3	3	3	0	3	4	4	1	4	4	1	1	1
1	1	5	5	5	1	5	7	8	2	8	8	10	3	4
14	28.2	48	20	20	36	20	36	40	24	36	47	49	24	22

HZ4	HZ5	HZ6	HZ7	HZ8	HZ9	HZ10	HZ11	HZ12	HZ13
22	72	175	55	22	67	175	134	68	55
Gold	CVU	VVP	VVP	CVU	CVU	CVU	CVU	CVU	Wim
10	8	0	3	6	7	0	0	4	0
5	3	0	3	5	2	0	2	0	2
2	4	6	2	6	2	6	5	5	5
5	5	5	5	5	5	5	0	2	0
5	5	0	5	5	5	0	0	5	4
4	2	4	4	2	4	5	5	5	5
0	0	0	0	0	0	0	4	2	2
31	27	15	22	29	25	16	16	23	18
1	1	1.36	1	1	1	1	1	1	1
31	27	20.4	22	29	25	16	16	23	18
2	2	2	2	2	1	4	8	1	2
1	2	2	2	2	1	2	3	1	3
1	1	1	1	1	1	3	4	1	3
4	5	5	5	5	3	9	15	3	8
35	32	25.4	27	34	28	25	31	26	26

Appendix H – Scattered Tree Table

Key to table

DBH	Diameter at breast height
TPZ	Tree Protection Zone
Est	Estimate

TreeID	Scientific Name	Common Name	DBH	Hollows	Tree category	TPZ impacted
1	*Eucalyptus camaldulensis*	River Red Gum	79	No	Small	No
6	*Eucalyptus camaldulensis*	River Red Gum	85	No	Large	No
16	*Eucalyptus camaldulensis*	River Red Gum	14	No	Small	No
17	*Eucalyptus camaldulensis*	River Red Gum	13	No	Small	No
18	*Eucalyptus camaldulensis*	River Red Gum	8	No	Small	No
19	*Eucalyptus camaldulensis*	River Red Gum	17	No	Small	No
20	*Eucalyptus camaldulensis*	River Red Gum	12	No	Small	No
21	*Eucalyptus camaldulensis*	River Red Gum	9	No	Small	No
22	*Eucalyptus camaldulensis*	River Red Gum	10	No	Small	No
30	*Eucalyptus macrorhyncha*	Red Stringybark	51	No	Small	No
33	*Eucalyptus camaldulensis*	River Red Gum	149	No	Large	Yes
34	*Eucalyptus camaldulensis*	River Red Gum	79	No	Large	No
43	*Eucalyptus camaldulensis*	River Red Gum	60	No	Small	No
51	*Eucalyptus melliodora*	Yellow Box	65	No	Small	No
52	*Eucalyptus melliodora*	Yellow Box	58	No	Small	No
53	*Eucalyptus camaldulensis*	River Red Gum	75	No	Large	No
54	*Eucalyptus microcarpa*	Grey Box	38	No	Small	Yes
55	*Eucalyptus camaldulensis*	River Red Gum	115	Yes	Large	No
57	*Eucalyptus camaldulensis*	River Red Gum	125	No	Large	Yes
65	*Eucalyptus camaldulensis*	River Red Gum	66	No	Small	No
66	*Eucalyptus camaldulensis*	River Red Gum	69	No	Small	No
71	*Eucalyptus microcarpa*	Grey Box	63	No	Small	No
76	*Eucalyptus microcarpa*	Grey Box	58	No	Small	No
77	*Eucalyptus microcarpa*	Grey Box	70	No	Large	No
78	*Eucalyptus microcarpa*	Grey Box	41	No	Small	No
80	*Eucalyptus camaldulensis*	River Red Gum	173	Yes	Large	No
81	*Eucalyptus camaldulensis*	River Red Gum	110	No	Large	No
82	*Eucalyptus camaldulensis*	River Red Gum	216	Yes	Large	No

83	*Eucalyptus camaldulensis*	River Red Gum	205	Yes	Large	No
84	*Eucalyptus melliodora*	Yellow Box	111	No	Large	No
85	*Eucalyptus camaldulensis*	River Red Gum	210	Yes	Large	No
86	*Eucalyptus camaldulensis*	River Red Gum	247	Yes	Large	No
87	*Eucalyptus camaldulensis*	River Red Gum	234	Yes	Large	No
88	*Eucalyptus camaldulensis*	River Red Gum	212	Yes	Large	No
96	*Eucalyptus camaldulensis*	River Red Gum	50	No	Small	No
97	*Eucalyptus camaldulensis*	River Red Gum	130	Yes	Large	No
98	*Eucalyptus microcarpa*	Grey Box	95	No	Large	Yes
99	*Eucalyptus camaldulensis*	River Red Gum	65	No	Small	No
100	*Eucalyptus camaldulensis*	River Red Gum	95	Yes	Large	No
101	*Eucalyptus camaldulensis*	River Red Gum	97	No	Large	No
102	*Eucalyptus camaldulensis*	River Red Gum	85	No	Large	No
103	*Eucalyptus camaldulensis*	River Red Gum	70	No	Large	Yes
104	*Eucalyptus camaldulensis*	River Red Gum	65	No	Small	Yes
105	*Eucalyptus microcarpa*	Grey Box	98	No	Large	No
116	*Eucalyptus* sp.	Eucalyptus	107	No	Large	No
117	*Eucalyptus viminalis*	Manna Gum	103	No	Large	No
125	*Eucalyptus camaldulensis*	River Red Gum	121	No	Large	Yes
130	*Eucalyptus camaldulensis*	River Red Gum	156	Yes	Large	No
157	*Eucalyptus* sp.	Eucalyptus	115	No	Large	No
162	*Eucalyptus camaldulensis*	River Red Gum	200	Yes	Large	No
163	*Eucalyptus camaldulensis*	River Red Gum	160	Yes	Large	No
172	*Eucalyptus* sp.	Eucalyptus	102	No	Large	Yes
177	*Eucalyptus camaldulensis*	River Red Gum	87	No	Large	No
178	*Eucalyptus camaldulensis*	River Red Gum	228	Yes	Large	Yes
195	*Eucalyptus camaldulensis*	River Red Gum	117	Yes	Large	Yes
196	*Eucalyptus camaldulensis*	River Red Gum	139	Yes	Large	No
197	*Eucalyptus* sp.	Eucalyptus	97	No	Large	No

198	*Eucalyptus camaldulensis*	River Red Gum	172	Yes	Large	No
199	*Eucalyptus* sp.	Eucalyptus	125	No	Large	No
200	*Eucalyptus* sp.	Eucalyptus	179	No	Large	No
201	*Eucalyptus camaldulensis*	River Red Gum	119	No	Large	Yes
204	*Eucalyptus camaldulensis*	River Red Gum	120	No	Large	Yes
205	*Eucalyptus camaldulensis*	River Red Gum	157	Yes	Large	Yes
206	*Eucalyptus camaldulensis*	River Red Gum	160	Yes	Large	Yes
211	*Eucalyptus polyanthemos*	Red Box	179	No	Large	No
212	*Eucalyptus camaldulensis*	River Red Gum	176	Yes	Large	No
213	*Eucalyptus camaldulensis*	River Red Gum	150	Yes	Large	No
214	*Eucalyptus camaldulensis*	River Red Gum	194	Yes	Large	No
215	*Eucalyptus camaldulensis*	River Red Gum	207	No	Large	No
216	*Eucalyptus camaldulensis*	River Red Gum	210 est	No	Small	No
217	*Eucalyptus camaldulensis*	River Red Gum	150 est	No	Small	No
218	*Eucalyptus camaldulensis*	River Red Gum	137	No	Large	No
219	*Eucalyptus camaldulensis*	River Red Gum	130 est	No	Small	No
220	*Eucalyptus camaldulensis*	River Red Gum	180 est	No	Small	No
221	*Eucalyptus camaldulensis*	River Red Gum	180 est	No	Small	No
222	*Eucalyptus camaldulensis*	River Red Gum	131	No	Large	Yes
223	*Eucalyptus camaldulensis*	River Red Gum	182	No	Large	Yes
233	*Eucalyptus camaldulensis*	River Red Gum	140	No	Large	No
234	*Eucalyptus camaldulensis*	River Red Gum	155	No	Large	No
235	*Eucalyptus camaldulensis*	River Red Gum	144	No	Large	No
236	*Eucalyptus camaldulensis*	River Red Gum	141	No	Large	Yes
237	*Eucalyptus camaldulensis*	River Red Gum	160	No	Large	No
238	*Eucalyptus camaldulensis*	River Red Gum	100	No	Large	No
239	*Eucalyptus camaldulensis*	River Red Gum	100	No	Large	No
241	*Eucalyptus melliodora*	Yellow Box	152	No	Large	No
245	*Eucalyptus* sp.	Eucalyptus	130	Yes	Large	No

246	*Eucalyptus camaldulensis*	River Red Gum	143	Yes	Large	No
247	*Eucalyptus camaldulensis*	River Red Gum	106	No	Large	No
249	*Eucalyptus camaldulensis*	River Red Gum	200	Yes	Large	No
250	*Eucalyptus camaldulensis*	River Red Gum	85	No	Large	No
252	*Eucalyptus camaldulensis*	River Red Gum	126	No	Large	No
253	*Eucalyptus camaldulensis*	River Red Gum	167	No	Large	No
254	*Eucalyptus camaldulensis*	River Red Gum	65	No	Small	No
255	*Eucalyptus camaldulensis*	River Red Gum	116	No	Large	No
257	*Eucalyptus camaldulensis*	River Red Gum	154	No	Large	No
272	*Eucalyptus leucoxylon*	Yellow Gum	96	No	Large	Yes
273	*Eucalyptus leucoxylon*	Yellow Gum	160	No	Large	No
278	*Eucalyptus camaldulensis*	River Red Gum	110	No	Large	No
282	*Eucalyptus melliodora*	Yellow Box	140	No	Large	No
283	*Eucalyptus camaldulensis*	River Red Gum	120	No	Large	No
284	*Eucalyptus camaldulensis*	River Red Gum	85	No	Large	No
289	*Eucalyptus camaldulensis*	River Red Gum	128	Yes	Large	No
290	*Eucalyptus camaldulensis*	River Red Gum	123	Yes	Large	No
291	*Eucalyptus camaldulensis*	River Red Gum	95	No	Large	No
299	*Eucalyptus camaldulensis*	River Red Gum	190	No	Large	No
300	*Eucalyptus camaldulensis*	River Red Gum	195	Yes	Large	Yes
301	*Eucalyptus camaldulensis*	River Red Gum	165	No	Large	No
302	*Eucalyptus camaldulensis*	River Red Gum	186	Yes	Large	No
303	*Eucalyptus camaldulensis*	River Red Gum	185	No	Large	No
304	*Eucalyptus camaldulensis*	River Red Gum	160	No	Large	Yes
305	*Eucalyptus camaldulensis*	River Red Gum	182	Yes	Large	No
306	*Eucalyptus camaldulensis*	River Red Gum	208	Yes	Large	Yes
307	*Eucalyptus camaldulensis*	River Red Gum	200	Yes	Large	Yes
308	*Eucalyptus camaldulensis*	River Red Gum	117	No	Large	No
309	*Eucalyptus camaldulensis*	River Red Gum	20	No	Small	No

310	*Eucalyptus camaldulensis*	River Red Gum	188	No	Large	No
311	*Eucalyptus camaldulensis*	River Red Gum	132	No	Large	No
312	*Eucalyptus camaldulensis*	River Red Gum	142	Yes	Large	No
317	*Eucalyptus camaldulensis*	River Red Gum	36	No	Small	No
318	*Eucalyptus camaldulensis*	River Red Gum	67	No	Small	No
319	*Eucalyptus camaldulensis*	River Red Gum	105	No	Large	Yes
322	*Eucalyptus camaldulensis*	River Red Gum	50	No	Small	No
331	*Eucalyptus camaldulensis*	River Red Gum	33	No	Small	Yes
336	*Eucalyptus microcarpa*	Grey Box	103	No	Large	No
338	*Eucalyptus largiflorens*	Black Box	84	No	Large	No
339	*Eucalyptus microcarpa*	Grey Box	100	No	Large	No
340	*Eucalyptus microcarpa*	Grey Box	39	No	Small	No
341	*Eucalyptus microcarpa*	Grey Box	107	No	Large	No
345	*Eucalyptus camaldulensis*	River Red Gum	203	Yes	Large	Yes
349	*Eucalyptus camaldulensis*	River Red Gum	165	Yes	Large	Yes
351	*Eucalyptus largiflorens*	Black Box	51	No	Small	No
352	*Eucalyptus largiflorens*	Black Box	85	No	Large	No
353	*Eucalyptus largiflorens*	Black Box	47	No	Small	No
354	*Eucalyptus dives*	Broad-leaved Peppermint	42	No	Small	No
359	*Eucalyptus camaldulensis*	River Red Gum	100	Yes	Large	No
360	*Eucalyptus camaldulensis*	River Red Gum	150	Yes	Large	Yes
364	*Eucalyptus camaldulensis*	River Red Gum	146	Yes	Large	No
368	*Eucalyptus camaldulensis*	River Red Gum	171	No	Large	No
369	*Eucalyptus camaldulensis*	River Red Gum	153	Yes	Large	No
370	*Eucalyptus camaldulensis*	River Red Gum	124	No	Large	No
371	*Eucalyptus camaldulensis*	River Red Gum	136	Yes	Large	No
372	*Eucalyptus camaldulensis*	River Red Gum	169	Yes	Large	No
373	*Eucalyptus camaldulensis*	River Red Gum	106	No	Large	Yes
374	*Eucalyptus camaldulensis*	River Red Gum	40	No	Small	No

375	*Eucalyptus camaldulensis*	River Red Gum	61	No	Small	No
376	*Eucalyptus* sp.	Eucalyptus	57	No	Small	No
378	*Eucalyptus camaldulensis*	River Red Gum	241	Yes	Large	No
379	*Eucalyptus camaldulensis*	River Red Gum	246	Yes	Large	Yes
383	*Eucalyptus largiflorens*	Black box	78	No	Large	Yes
384	*Eucalyptus largiflorens*	Black box	33	No	Small	Yes
385	*Eucalyptus largiflorens*	Black Box	54	No	Small	No
386	*Eucalyptus largiflorens*	Black Box	54	No	Small	No
387	*Eucalyptus camaldulensis*	River Red Gum	65	No	Small	No
388	*Eucalyptus camaldulensis*	River Red Gum	35	No	Small	No
389	*Eucalyptus camaldulensis*	River Red Gum	37	No	Small	No
390	*Eucalyptus largiflorens*	Black Box	103	Yes	Large	Yes
394	*Eucalyptus camaldulensis*	River Red Gum	132	Yes	Large	No
395	*Eucalyptus camaldulensis*	River Red Gum	126	No	Large	Yes
396	*Eucalyptus camaldulensis*	River Red Gum	157	Yes	Large	No
397	*Eucalyptus camaldulensis*	River Red Gum	126	No	Large	No
402	*Eucalyptus camaldulensis*	River Red Gum	104	No	Large	No
403	*Eucalyptus* sp.	Eucalyptus	141	No	Large	No
404	*Eucalyptus camaldulensis*	River Red Gum	175	Yes	Large	Yes
405	*Eucalyptus* sp.	Eucalyptus	94	No	Large	Yes
406	*Eucalyptus* sp.	Eucalyptus	42	No	Small	Yes
407	*Eucalyptus camaldulensis*	River Red Gum	88	No	Large	No
408	*Eucalyptus camaldulensis*	River Red Gum	75	No	Large	Yes
409	*Eucalyptus* sp.	Eucalyptus	82	No	Large	No
410	*Eucalyptus* sp.	Eucalyptus	70	No	Large	Yes
412	*Eucalyptus camaldulensis*	River Red Gum	74	No	Large	No
415	*Eucalyptus* sp.	Eucalyptus	107	No	Large	No
416	*Eucalyptus camaldulensis*	River Red Gum	146	No	Large	No
420	*Eucalyptus camaldulensis*	River Red Gum	222	Yes	Large	No

421	*Eucalyptus camaldulensis*	River Red Gum	162	Yes	Large	Yes
423	*Eucalyptus melliodora*	Yellow Box	100	Yes	Large	Yes
424	*Eucalyptus melliodora*	Yellow Box	69	No	Small	No
425	*Eucalyptus melliodora*	Yellow Box	115	No	Large	No
426	*Eucalyptus melliodora*	Yellow Box	75	No	Large	No
427	*Eucalyptus camaldulensis*	River Red Gum	52	No	Small	Yes
429	*Eucalyptus camaldulensis*	River Red Gum	187	No	Large	No
430	*Eucalyptus camaldulensis*	River Red Gum	180+	No	Large	No
431	Non-native		54	No	Small	No
432	*Eucalyptus camaldulensis*	River Red Gum	104	No	Large	No
433	*Eucalyptus camaldulensis*	River Red Gum	99	No	Large	No
434	*Eucalyptus camaldulensis*	River Red Gum	45	No	Small	No
435	*Eucalyptus camaldulensis*	River Red Gum	180+	No	Large	No
436	*Eucalyptus camaldulensis*	River Red Gum	182	Yes	Large	No
437	*Eucalyptus camaldulensis*	River Red Gum	191	No	Large	No
438	*Eucalyptus camaldulensis*	River Red Gum	230	Yes	Large	No
440	*Eucalyptus camaldulensis*	River Red Gum	134	No	Large	No
441	*Eucalyptus camaldulensis*	River Red Gum	39	No	Small	Yes
442	*Eucalyptus camaldulensis*	River Red Gum	34	No	Small	No
443	*Eucalyptus camaldulensis*	River Red Gum	227	Yes	Large	No
444	*Eucalyptus camaldulensis*	River Red Gum	159	Yes	Large	Yes
447	*Eucalyptus camaldulensis*	River Red Gum	69	No	Small	No
448	*Eucalyptus globulus*	Blue Gum	82	No	Large	No
449	*Eucalyptus* sp.	Eucalyptus	62	No	Small	No
450	*Eucalyptus globulus*	Blue Gum	72	No	Large	No
451	*Eucalyptus globulus*	Blue Gum	89	No	Large	No
452	*Eucalyptus globulus*	Blue Gum	58	No	Small	No
454	*Eucalyptus globulus*	Blue Gum	147	Yes	Large	No
455	*Eucalyptus globulus*	Blue Gum	88	No	Large	No

456	*Eucalyptus globulus*	Blue Gum	67	No	Small	No
457	*Eucalyptus globulus*	Blue Gum	78	Yes	Large	No
458	*Eucalyptus globulus*	Blue Gum	86	No	Large	Yes
459	*Eucalyptus camaldulensis*	River Red Gum	49	No	Small	Yes
460	*Eucalyptus* sp.	Eucalyptus	41	No	Small	Yes
461	*Eucalyptus* sp.	Eucalyptus	31	No	Small	Yes
462	*Eucalyptus camaldulensis*	River Red Gum	131	No	Large	No
463	*Eucalyptus camaldulensis*	River Red Gum	86	No	Large	No
464	Dead tree		107	No	Large	No
465	*Eucalyptus camaldulensis*	River Red Gum	74	No	Small	No
466	*Eucalyptus camaldulensis*	River Red Gum	89	No	Large	No
467	*Eucalyptus camaldulensis*	River Red Gum	42	No	Small	No
468	*Eucalyptus dives*	Broad-leaved Peppermint	66	No	Small	No
469	*Eucalyptus camaldulensis*	River Red Gum	71	No	Large	Yes
470	*Eucalyptus camaldulensis*	River Red Gum	59	No	Small	Yes
471	*Eucalyptus camaldulensis*	River Red Gum	32	No	Small	No
472	*Eucalyptus camaldulensis*	River Red Gum	75	No	Large	No
473	*Eucalyptus melliodora*	Yellow Box	97	No	Large	No
474	*Eucalyptus melliodora*	Yellow Box	38	No	Small	No
475	*Eucalyptus goniocalyx*	Bundy	69	No	Small	Yes
476	*Eucalyptus aromaphloia*	Scent-bark	37	No	Small	Yes
478	*Eucalyptus goniocalyx*	Bundy	32	No	Small	No
479	*Eucalyptus melliodora*	Yellow Box	82	No	Large	Yes
483	*Eucalyptus melliodora*	Yellow Box	76	No	Large	No
484	*Eucalyptus melliodora*	Yellow Box	117	No	Large	Yes
485	*Eucalyptus camaldulensis*	River Red Gum	103	No	Large	Yes
488	*Eucalyptus dives*	Broad-leaved Peppermint	133	No	Large	No
489	*Eucalyptus camaldulensis*	River Red Gum	97	No	Large	Yes
490	*Eucalyptus camaldulensis*	River Red Gum	74	No	Large	No

491	*Eucalyptus camaldulensis*	River Red Gum	71	No	Large	No
492	*Eucalyptus camaldulensis*	River Red Gum	71	No	Large	No
493	*Eucalyptus camaldulensis*	River Red Gum	72	No	Large	No
494	*Eucalyptus camaldulensis*	River Red Gum	123	No	Large	No
495	*Eucalyptus camaldulensis*	River Red Gum	72	No	Large	No
496	*Eucalyptus camaldulensis*	River Red Gum	89	No	Large	No
497	*Eucalyptus camaldulensis*	River Red Gum	82	No	Large	No
498	*Eucalyptus camaldulensis*	River Red Gum	138	No	Large	No
499	*Eucalyptus melliodora*	Yellow Box	160	No	Large	Yes
500	*Eucalyptus camaldulensis*	River Red Gum	142	No	Large	Yes
501	*Eucalyptus camaldulensis*	River Red Gum	101	No	Large	No
502	*Eucalyptus camaldulensis*	River Red Gum	166	No	Large	Yes
503	*Eucalyptus camaldulensis*	River Red Gum	97	No	Large	No
507	*Eucalyptus camaldulensis*	River Red Gum	97	No	Large	Yes
508	*Eucalyptus camaldulensis*	River Red Gum	140	No	Large	No
521	*Eucalyptus camaldulensis*	River Red Gum	190	No	Large	No
522	*Eucalyptus camaldulensis*	River Red Gum	58	No	Small	Yes
523	*Eucalyptus camaldulensis*	River Red Gum	55	No	Small	No
524	*Eucalyptus camaldulensis*	River Red Gum	39	No	Small	No
525	*Eucalyptus melliodora*	Yellow Box	118	No	Large	No
526	*Eucalyptus melliodora*	Yellow Box	100	No	Large	No
527	*Eucalyptus camaldulensis*	River Red Gum	30	No	Small	No
528	*Eucalyptus camaldulensis*	River Red Gum	45	No	Small	No
529	*Eucalyptus camaldulensis*	River Red Gum	45	No	Small	No
530	*Eucalyptus camaldulensis*	River Red Gum	35	No	Small	No
531	*Eucalyptus camaldulensis*	River Red Gum	10	No	Small	No
532	*Eucalyptus camaldulensis*	River Red Gum	10	No	Small	No
533	*Eucalyptus camaldulensis*	River Red Gum	10	No	Small	No
534	*Eucalyptus camaldulensis*	River Red Gum	286	Yes	Large	Yes

535	*Eucalyptus camaldulensis*	River Red Gum	172	Yes	Large	No
536	*Eucalyptus camaldulensis*	River Red Gum	162	No	Large	No
537	*Eucalyptus camaldulensis*	River Red Gum	89	No	Large	No
538	*Eucalyptus camaldulensis*	River Red Gum	95	No	Large	No
539	*Eucalyptus camaldulensis*	River Red Gum	115	No	Large	Yes
540	*Eucalyptus camaldulensis*	River Red Gum	110	No	Large	No
541	*Eucalyptus camaldulensis*	River Red Gum	150	No	Large	No
542	*Eucalyptus camaldulensis*	River Red Gum	160	Yes	Large	No
543	*Eucalyptus camaldulensis*	River Red Gum	19	No	Small	No
544	*Eucalyptus camaldulensis*	River Red Gum	195	Yes	Large	Yes
545	*Eucalyptus camaldulensis*	River Red Gum	146	No	Large	Yes
546	*Eucalyptus* sp.	Eucalyptus	61	No	Small	Yes
547	*Eucalyptus* sp.	Eucalyptus	37	No	Small	Yes
548	*Eucalyptus* sp.	Eucalyptus	43	No	Small	No
549	*Eucalyptus* sp.	Eucalyptus	53	No	Small	Yes
550	*Eucalyptus camaldulensis*	River Red Gum	130	No	Large	No
551	*Eucalyptus* sp.	Eucalyptus	90	No	Large	Yes
552	*Eucalyptus camaldulensis*	River Red Gum	135	No	Large	No
553	*Eucalyptus leucoxylon*	Yellow Gum	148	No	Large	Yes
554	*Eucalyptus viminalis*	Manna Gum	159	Yes	Large	Yes
555	*Eucalyptus camaldulensis*	River Red Gum	126	Yes	Large	Yes
556	*Eucalyptus camaldulensis*	River Red Gum	158	Yes	Large	No
557	*Eucalyptus camaldulensis*	River Red Gum	193	No	Large	Yes
558	*Eucalyptus camaldulensis*	River Red Gum	120	Yes	Large	Yes
559	*Eucalyptus camaldulensis*	River Red Gum	187	No	Large	No
560	*Eucalyptus* sp.	Eucalyptus	112	No	Large	No
561	*Eucalyptus camaldulensis*	River Red Gum	160	Yes	Large	Yes
562	*Eucalyptus* sp.	Eucalyptus	50	No	Small	No
563	*Eucalyptus* sp.	Eucalyptus	65	No	Large	No

564	*Eucalyptus camaldulensis*	River Red Gum	>180	Yes	Small	Yes
565	*Eucalyptus camaldulensis*	River Red Gum	185	Yes	Large	No
566	*Eucalyptus camaldulensis*	River Red Gum	61	No	Small	Yes
567	*Eucalyptus camaldulensis*	River Red Gum	254	Yes	Large	No
568	*Eucalyptus camaldulensis*	River Red Gum	208	Yes	Large	No
569	*Eucalyptus camaldulensis*	River Red Gum	163	Yes	Large	Yes
570	*Eucalyptus camaldulensis*	River Red Gum	185	Yes	Large	No
572	*Eucalyptus camaldulensis*	River Red Gum	170	Yes	Large	No
573	*Eucalyptus camaldulensis*	River Red Gum	202	Yes	Large	Yes
574	*Eucalyptus camaldulensis*	River Red Gum	194	Yes	Large	No
575	*Eucalyptus camaldulensis*	River Red Gum	133	Yes	Large	No
576	*Eucalyptus leucoxylon*	Yellow Gum	108	No	Large	Yes
577	*Eucalyptus dives*	Broad-leaved Peppermint	41	No	Small	No
578	*Eucalyptus leucoxylon*	Yellow Gum	135	No	Large	No
579	*Eucalyptus leucoxylon*	Yellow Gum	51	No	Small	Yes
580	*Eucalyptus leucoxylon*	Yellow Gum	34	No	Small	No
581	*Eucalyptus leucoxylon*	Yellow Gum	23	No	Small	No
590	*Eucalyptus goniocalyx*	Bundy	44	No	Small	No
591	*Eucalyptus melliodora*	Yellow Box	77	No	Large	No
592	*Eucalyptus goniocalyx*	Bundy	45	No	Small	No
594	*Eucalyptus melliodora*	Yellow Box	36	No	Small	No
595	*Eucalyptus melliodora*	Yellow Box	61	No	Large	No
603	*Eucalyptus camaldulensis*	River Red Gum	230	Yes	Large	No
604	*Eucalyptus camaldulensis*	River Red Gum	110	No	Large	No
605	*Eucalyptus camaldulensis*	River Red Gum	144	Yes	Large	No
606	*Eucalyptus camaldulensis*	River Red Gum	166	Yes	Large	No
607	*Eucalyptus camaldulensis*	River Red Gum	162	Yes	Large	No
608	*Eucalyptus camaldulensis*	River Red Gum	172	Yes	Large	Yes
609	*Eucalyptus camaldulensis*	River Red Gum	185	Yes	Large	No

610	*Eucalyptus camaldulensis*	River Red Gum	165	Yes	Large	No
611	*Eucalyptus camaldulensis*	River Red Gum	169	Yes	Large	No
612	*Eucalyptus camaldulensis*	River Red Gum	150	Yes	Large	No
613	*Eucalyptus camaldulensis*	River Red Gum	195	Yes	Large	Yes
615	*Eucalyptus camaldulensis*	River Red Gum	196	Yes	Large	No
617	*Eucalyptus camaldulensis*	River Red Gum	130	Yes	Large	No
624	*Eucalyptus camaldulensis*	River Red Gum	200	No	Large	No
633	*Eucalyptus camaldulensis*	River Red Gum	171	Yes	Large	Yes
636	*Eucalyptus camaldulensis*	River Red Gum	214	Yes	Large	No
638	*Eucalyptus camaldulensis*	River Red Gum	169	Yes	Large	Yes
639	*Eucalyptus camaldulensis*	River Red Gum	165	No	Large	Yes
640	*Eucalyptus camaldulensis*	River Red Gum	174	Yes	Large	Yes
641	*Eucalyptus camaldulensis*	River Red Gum	160	Yes	Large	Yes
642	*Eucalyptus camaldulensis*	River Red Gum	154	No	Large	No
643	*Eucalyptus camaldulensis*	River Red Gum	154	No	Large	No
644	*Eucalyptus camaldulensis*	River Red Gum	188	No	Large	No
645	*Eucalyptus camaldulensis*	River Red Gum	179	No	Large	No
646	*Eucalyptus camaldulensis*	River Red Gum	224	Yes	Large	No
647	*Eucalyptus camaldulensis*	River Red Gum	234	Yes	Large	No
650	*Eucalyptus camaldulensis*	River Red Gum	218	Yes	Large	No
651	*Eucalyptus* sp.	Eucalyptus	123	No	Large	No
652	*Eucalyptus camaldulensis*	River Red Gum	186	No	Large	Yes
653	*Eucalyptus camaldulensis*	River Red Gum	164	Yes	Large	Yes
654	*Eucalyptus camaldulensis*	River Red Gum	194	Yes	Large	No
656	*Eucalyptus camaldulensis*	River Red Gum	168	Yes	Large	No
657	*Eucalyptus camaldulensis*	River Red Gum	195	Yes	Large	No
665	*Eucalyptus camaldulensis*	River Red Gum	180	Yes	Large	No
683	*Eucalyptus camaldulensis*	River Red Gum	159	Yes	Large	No
684	*Eucalyptus* sp.	Eucalyptus	158	No	Large	No

685	*Eucalyptus camaldulensis*	River Red Gum	167	Yes	Large	Yes
686	*Eucalyptus camaldulensis*	River Red Gum	133	Yes	Large	Yes
687	*Eucalyptus camaldulensis*	River Red Gum	30	No	Small	No
688	*Eucalyptus camaldulensis*	River Red Gum	49	No	Small	No
689	*Eucalyptus camaldulensis*	River Red Gum	56	No	Small	No
690	*Eucalyptus camaldulensis*	River Red Gum	184	No	Large	No
691	*Eucalyptus melliodora*	Yellow Box	158	No	Large	No
692	*Eucalyptus camaldulensis*	River Red Gum	83	No	Large	Yes
693	*Eucalyptus melliodora*	Yellow Box	38	No	Small	Yes
694	*Eucalyptus melliodora*	Yellow Box	28	No	Small	Yes
695	*Eucalyptus leucoxylon*	Yellow Gum	88	No	Large	No
696	*Eucalyptus melliodora*	Yellow Box	69	No	Small	No
697	*Eucalyptus leucoxylon*	Yellow Gum	85	No	Large	No
708	*Eucalyptus camaldulensis*	River Red Gum	160	Yes	Large	No
709	*Eucalyptus camaldulensis*	River Red Gum	142	Yes	Large	Yes
710	*Eucalyptus* sp.	Eucalyptus	65	Yes	Large	Yes
719	*Eucalyptus* sp.	Eucalyptus	93	Yes	Large	No
720	*Eucalyptus leucoxylon*	Yellow Gum	118	No	Large	No
721	*Eucalyptus camaldulensis*	River Red Gum	89	No	Large	No
726	*Eucalyptus camaldulensis*	River Red Gum	47	No	Small	No
729	*Eucalyptus leucoxylon*	Yellow Gum	128	No	Large	No
732	Dead tree		125	Yes	Large	No
733	*Eucalyptus melliodora*	Yellow Box	89	No	Large	Yes
741	*Eucalyptus goniocalyx*	Bundy	28	No	Small	No
742	*Eucalyptus goniocalyx*	Bundy	27	No	Small	No
743	*Eucalyptus leucoxylon*	Yellow Gum	27	No	Small	Yes
744	*Eucalyptus leucoxylon*	Yellow Gum	125	No	Large	Yes
745	*Eucalyptus goniocalyx*	Bundy	10	No	Small	Yes
746	*Eucalyptus leucoxylon*	Yellow Gum	87	No	Large	Yes

747	*Eucalyptus leucoxylon*	Yellow Gum	28	No	Small	Yes
753	*Eucalyptus melliodora*	Yellow Box	109	No	Large	No
754	*Eucalyptus* sp.	Eucalyptus	94	No	Large	Yes
755	*Eucalyptus goniocalyx*	Bundy	114	Yes	Large	No
756	*Eucalyptus goniocalyx*	Bundy	58	Yes	Small	Yes
757	*Eucalyptus* sp.	Eucalyptus	117	Yes	Large	No
762	*Eucalyptus melliodora*	Yellow Box	29	No	Small	No
763	*Eucalyptus camaldulensis*	River Red Gum	29	No	Small	No
764	*Eucalyptus* sp.	Eucalyptus	51	No	Small	No
765	*Eucalyptus leucoxylon*	Yellow Gum	74	No	Large	No
766	*Eucalyptus leucoxylon*	Yellow Gum	154	Yes	Large	Yes
767	*Eucalyptus camaldulensis*	River Red Gum	81	No	Large	No
768	*Eucalyptus camaldulensis*	River Red Gum	152	No	Large	No
769	*Eucalyptus goniocalyx*	Bundy	80	Yes	Large	No
777	*Eucalyptus camaldulensis*	River Red Gum	110	No	Large	Yes
778	*Eucalyptus camaldulensis*	River Red Gum	108	No	Large	No
779	*Eucalyptus camaldulensis*	River Red Gum	57	No	Small	No
782	*Eucalyptus camaldulensis*	River Red Gum	114	No	Large	Yes
783	*Eucalyptus melliodora*	Yellow Box	115	No	Large	No
784	*Eucalyptus melliodora*	Yellow Box	78	No	Large	Yes
785	*Eucalyptus* sp.	Eucalyptus	44	No	Small	Yes
786	*Eucalyptus* sp.	Eucalyptus	86	No	Large	Yes
787	*Eucalyptus melliodora*	Yellow Box	97	No	Large	No
794	*Eucalyptus* sp.	Eucalyptus	71	No	Large	No
795	*Eucalyptus leucoxylon*	Yellow Gum	95	No	Large	No
796	*Eucalyptus goniocalyx*	Bundy	144	No	Large	Yes
798	*Eucalyptus camaldulensis*	River Red Gum	105	No	Large	No
799	*Eucalyptus leucoxylon*	Yellow Gum	102	No	Large	No
800	*Eucalyptus leucoxylon*	Yellow Gum	121	No	Large	No

801	*Eucalyptus goniocalyx*	Bundy	157	No	Large	No
802	*Eucalyptus goniocalyx*	Bundy	141	No	Large	No
803	*Eucalyptus leucoxylon*	Yellow Gum	60	No	Large	No
804	*Eucalyptus leucoxylon*	Yellow Gum	105	No	Large	No
810	*Eucalyptus camaldulensis*	River Red Gum	173	No	Large	Yes
811	*Eucalyptus* sp.	Eucalyptus	128	Yes	Large	Yes
812	*Eucalyptus camaldulensis*	River Red Gum	238	No	Large	Yes
813	*Eucalyptus* sp.	Eucalyptus	78	Yes	Large	No
814	*Eucalyptus blakelyi*	Blakely's Red-Gum	32	No	Small	No
815	*Eucalyptus blakelyi*	Blakely's Red-Gum	195	Yes	Large	No
816	*Eucalyptus blakelyi*	Blakely's Red-Gum	168	Yes	Large	Yes
817	*Eucalyptus blakelyi*	Blakely's Red-Gum	133	Yes	Large	No
818	*Eucalyptus leucoxylon*	Yellow Gum	115	No	Large	No
821	*Eucalyptus camaldulensis*	River Red Gum	102	No	Large	No
822	*Eucalyptus camaldulensis*	River Red Gum	120	No	Large	Yes
823	*Eucalyptus melliodora*	Yellow Box	60	No	Large	No
824	*Eucalyptus camaldulensis*	River Red Gum	125	No	Large	No
830	*Eucalyptus camaldulensis*	River Red Gum	100	No	Large	No
831	*Eucalyptus camaldulensis*	River Red Gum	95	No	Large	No
841	*Eucalyptus melliodora*	Yellow Box	108	No	Large	No
843	*Eucalyptus melliodora*	Yellow Box	62	No	Small	No
844	*Eucalyptus melliodora*	Yellow Box	49	No	Small	No
845	*Eucalyptus leucoxylon*	Yellow Gum	96	No	Large	No
846	*Eucalyptus* sp.	Eucalyptus	77	No	Large	No
847	*Eucalyptus* sp.	Eucalyptus	104	No	Large	Yes
848	*Eucalyptus camaldulensis*	River Red Gum	127	No	Large	No
859	*Eucalyptus camaldulensis*	River Red Gum	155	No	Large	Yes
860	*Eucalyptus melliodora*	Yellow Box	89	No	Large	No
862	*Eucalyptus blakelyi*	Blakely's Red-Gum	156	No	Large	Yes

875	*Eucalyptus camaldulensis*	River Red Gum	175	No	Large	No
876	*Eucalyptus camaldulensis*	River Red Gum	170	No	Large	No
877	*Eucalyptus camaldulensis*	River Red Gum	198	No	Large	Yes
880	*Eucalyptus camaldulensis*	River Red Gum	121	No	Large	No
881	*Eucalyptus camaldulensis*	River Red Gum	106	No	Large	No
882	*Eucalyptus camaldulensis*	River Red Gum	100	No	Large	No
883	*Eucalyptus camaldulensis*	River Red Gum	89	No	Large	No
884	*Eucalyptus camaldulensis*	River Red Gum	102	Yes	Large	No
885	*Eucalyptus camaldulensis*	River Red Gum	95	Yes	Large	No
886	*Eucalyptus camaldulensis*	River Red Gum	101	Yes	Large	Yes
887	*Eucalyptus camaldulensis*	River Red Gum	95	Yes	Large	No
888	*Eucalyptus camaldulensis*	River Red Gum	103	Yes	Large	Yes
889	*Eucalyptus camaldulensis*	River Red Gum	115	Yes	Large	No
890	*Eucalyptus camaldulensis*	River Red Gum	135	Yes	Large	No
891	*Eucalyptus camaldulensis*	River Red Gum	85	Yes	Large	No
892	*Eucalyptus camaldulensis*	River Red Gum	80	Yes	Large	No
893	*Eucalyptus camaldulensis*	River Red Gum	85	Yes	Large	Yes
894	*Eucalyptus camaldulensis*	River Red Gum	70	Yes	Large	Yes
895	*Eucalyptus camaldulensis*	River Red Gum	135	Yes	Large	No
896	*Eucalyptus camaldulensis*	River Red Gum	98	Yes	Large	No
897	*Eucalyptus camaldulensis*	River Red Gum	175	Yes	Large	No
898	*Eucalyptus camaldulensis*	River Red Gum	107	Yes	Large	Yes
899	*Eucalyptus camaldulensis*	River Red Gum	112	Yes	Large	Yes
900	*Eucalyptus camaldulensis*	River Red Gum	135	Yes	Large	No
901	*Eucalyptus camaldulensis*	River Red Gum	105	Yes	Large	Yes
902	*Eucalyptus camaldulensis*	River Red Gum		No	Small	No
903	*Eucalyptus* sp.	Eucalyptus	85	Yes	Large	No
904	*Eucalyptus macrorhyncha*	Red Stringybark	73	No	Large	Yes
905	*Eucalyptus melliodora*	Yellow Box	95	No	Large	Yes

906	*Eucalyptus goniocalyx*	Bundy	60	No	Small	No
907	*Eucalyptus goniocalyx*	Bundy	72	No	Large	Yes
908	*Eucalyptus melliodora*	Yellow Box	77	No	Large	No
909	*Eucalyptus melliodora*	Yellow Box	20	No	Small	No
910	*Eucalyptus* sp.	Eucalyptus	47	No	Small	No
911	*Eucalyptus melliodora*	Yellow Box	14	No	Small	No
912	*Eucalyptus melliodora*	Yellow Box	43	No	Small	No
913	*Eucalyptus melliodora*	Yellow Box	132	No	Large	Yes
914	*Eucalyptus goniocalyx*	Bundy	39	No	Small	No
915	*Eucalyptus* sp.	Eucalyptus	55	No	Small	No
916	*Eucalyptus goniocalyx*	Bundy	42	No	Small	No
917	*Eucalyptus goniocalyx*	Bundy	51	No	Small	No
918	*Eucalyptus* sp.	Eucalyptus	75	No	Large	No
919	*Eucalyptus melliodora*	Yellow Box	101	No	Large	No
920	*Eucalyptus* sp.	Eucalyptus	42	No	Small	No
921	*Eucalyptus goniocalyx*	Bundy	85	No	Large	Yes
922	*Eucalyptus goniocalyx*	Bundy	79	No	Large	Yes
923	*Eucalyptus blakelyi*	Blakely's Red-Gum	130	Yes	Large	No
924	*Eucalyptus blakelyi*	Blakely's Red-Gum	82	No	Large	Yes
925	*Eucalyptus blakelyi*	Blakely's Red-Gum	87	No	Large	No
926	*Eucalyptus blakelyi*	Blakely's Red-Gum	175	No	Large	No
927	*Eucalyptus camaldulensis*	River Red Gum	150	No	Large	Yes
928	*Eucalyptus camaldulensis*	River Red Gum	150	No	Large	No
929	*Eucalyptus blakelyi*	Blakely's Red-Gum	90	No	Large	No
930	Dead tree		75	No	Large	No
931	Dead tree		43	No	Small	Yes
932	Dead tree		70	No	Large	Yes
933	Dead tree		81	No	Large	Yes
936	*Eucalyptus goniocalyx*	Bundy	133	No	Large	No

944	Dead tree		92	No	Large	Yes
945	*Eucalyptus camaldulensis*	River Red Gum	70	No	Large	No
946	*Eucalyptus melliodora*	Yellow Box	88	No	Large	No
947	*Eucalyptus* sp.	Eucalyptus	40	Yes	Small	Yes
948	*Eucalyptus* sp.	Eucalyptus	109	No	Large	Yes
956	*Eucalyptus camaldulensis*	River Red Gum	83	No	Large	No
957	*Eucalyptus camaldulensis*	River Red Gum	81	No	Large	No
958	*Eucalyptus camaldulensis*	River Red Gum	140	No	Large	No
959	*Eucalyptus* sp.	Eucalyptus	7	No	Small	Yes
960	*Eucalyptus* sp.	Eucalyptus	4	No	Small	Yes
961	*Eucalyptus* sp.	Eucalyptus	110	No	Large	No
962	*Eucalyptus* sp.	Eucalyptus	68	No	Small	Yes
963	*Eucalyptus* sp.	Eucalyptus	132	No	Large	No
964	*Eucalyptus camaldulensis*	River Red Gum	164	No	Large	No
965	*Eucalyptus camaldulensis*	River Red Gum	179	No	Large	Yes
966	*Eucalyptus camaldulensis*	River Red Gum	112	No	Large	Yes
973	*Eucalyptus camaldulensis*	River Red Gum	85	No	Large	Yes
974	*Eucalyptus camaldulensis*	River Red Gum	102	No	Large	No
975	*Eucalyptus camaldulensis*	River Red Gum	114	No	Large	Yes
976	*Eucalyptus camaldulensis*	River Red Gum	62	No	Small	Yes
977	*Eucalyptus camaldulensis*	River Red Gum	112	No	Large	No
978	*Eucalyptus camaldulensis*	River Red Gum	48	No	Small	Yes
983	*Eucalyptus camaldulensis*	River Red Gum	102	No	Large	Yes
987	*Eucalyptus melliodora*	Yellow Box	70	No	Large	No
988	*Eucalyptus melliodora*	Yellow Box	85	No	Large	No
989	*Eucalyptus leucoxylon*	Yellow Gum	85	No	Large	No
990	*Eucalyptus leucoxylon*	Yellow Gum	88	No	Large	No
991	*Eucalyptus dives*	Broad-leaved Peppermint	123	No	Large	Yes
992	*Eucalyptus dives*	Broad-leaved Peppermint	61	No	Large	No

993	*Eucalyptus melliodora*	Yellow Box	89	No	Large	Yes
994	*Eucalyptus camaldulensis*	River Red Gum	123	No	Large	No
995	*Eucalyptus* sp.	Eucalyptus	108	Yes	Large	Yes
996	*Eucalyptus melliodora*	Yellow Box	78	No	Small	Yes
997	*Eucalyptus camaldulensis*	River Red Gum	46	No	Small	No
999	*Eucalyptus melliodora*	Yellow Box	35	No	Small	No
1000	*Eucalyptus* sp.	Eucalyptus	45	No	Small	No
1001	*Eucalyptus camaldulensis*	River Red Gum	30	No	Small	No
1002	*Eucalyptus camaldulensis*	River Red Gum	16	No	Small	No
1003	*Eucalyptus camaldulensis*	River Red Gum	56	No	Small	No
1004	*Eucalyptus camaldulensis*	River Red Gum	35	No	Small	No
1018	*Eucalyptus camaldulensis*	River Red Gum	91	No	Large	No
1019	*Eucalyptus camaldulensis*	River Red Gum	92	No	Large	Yes
1026	*Eucalyptus camaldulensis*	River Red Gum	184	No	Large	No
1027	*Eucalyptus camaldulensis*	River Red Gum	195	No	Large	No
1028	*Eucalyptus macrorhyncha*	Red Stringybark	123	No	Large	Yes
1029	*Eucalyptus camaldulensis*	River Red Gum	76	No	Large	Yes
1030	*Eucalyptus camaldulensis*	River Red Gum	194	No	Large	No
1031	*Eucalyptus camaldulensis*	River Red Gum	10	No	Small	No
1032	*Eucalyptus camaldulensis*	River Red Gum	9	No	Small	Yes
1033	*Eucalyptus camaldulensis*	River Red Gum	121	No	Large	Yes
1034	*Eucalyptus camaldulensis*	River Red Gum	82	No	Large	Yes
1041	*Eucalyptus camaldulensis*	River Red Gum	170	Yes	Large	Yes
1042	*Eucalyptus camaldulensis*	River Red Gum	38	No	Small	No
1043	*Eucalyptus camaldulensis*	River Red Gum	20	No	Small	No
1047	*Eucalyptus melliodora*	Yellow Box	72	No	Large	Yes
1048	*Eucalyptus leucoxylon*	Yellow Gum	99	No	Large	No
1049	*Eucalyptus* sp.	Eucalyptus	53	Yes	Small	No
1050	*Eucalyptus leucoxylon*	Yellow Gum	165	No	Large	No

1051	*Eucalyptus camaldulensis*	River Red Gum	147	Yes	Large	No
1053	*Eucalyptus camaldulensis*	River Red Gum	108	No	Large	No
1054	*Eucalyptus melliodora*	Yellow Box	89	No	Large	No
1065	*Eucalyptus camaldulensis*	River Red Gum	115	Yes	Large	No
1068	*Eucalyptus camaldulensis*	River Red Gum	85	No	Large	No
1072	*Eucalyptus camaldulensis*	River Red Gum	89	No	Large	No

Appendix I – Threatened Flora species considered (VBA and PMST)

Key to table

VBA	Victorian Biodiversity Atlas
PMST	Protected Matters Search Tool (EPBC Act)
EPBC	Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*
FFG	*Flora and Fauna Guarantee Act 1988*
VROTS	DELWP Advisory list of rare or threatened plants in Victoria
Records	Number of records within search area (VBA)
Source	Indicates if record is from the PMST or VBA. VBA records are displayed as the most recent date of record.

Status of species:

CR	Critically Endangered
EN	Endangered
VU	Vulnerable
L	Listed as threatened under the FFG Act
X	Rejected for listing threatened under the FFG Act; taxon ineligible
E	Endangered in Victoria
V	Vulnerable in Victoria
R	Rare in Victoria

Scientific Name	Common Name	EPBC	VROTS	FFG	VBA Records	Source
Abrotanella nivigena	Snow-wort		v		2	VBA
Acacia deanei subsp. *paucijuga*	Deane's Wattle		r		1	VBA
Allocasuarina grampiana	Grampians Sheoak		r		1	VBA
Allocasuarina luehmannii	Buloke		e	L	4	VBA
Amaranthus grandiflorus	Large-flower Amaranth		v		1	VBA
Asperula minima	Mossy Woodruff		r		1	VBA
Austrostipa exilis	Heath Spear-grass		r		2	VBA
Austrostipa hemipogon	Half-bearded Spear-grass		r		8	VBA
Austrostipa puberula	Fine-hairy Spear-grass		r		2	VBA
Boronia nana var. *pubescens*	Dwarf Boronia		r		41	VBA
Bossiaea cordigera	Wiry Bossiaea		r		3	VBA
Bossiaea rosmarinifolia	Grampians Bossiaea		r		1	VBA
Caladenia audasii	McIvor Spider-orchid	EN	e	L	1	VBA
Caladenia fulva	Tawny Spider-orchid	EN	e	L	1	VBA
Caladenia ornata	Ornate Pink Fingers	VU	v	L		PMST
Caladenia venusta	Large White Spider-orchid		r	X	4	VBA
Callitriche umbonata	Winged Water-starwort		r	X	1	VBA
Calotis anthemoides	Cut-leaf Burr-daisy			L	14	VBA
Comesperma polygaloides	Small Milkwort		v	L	30	VBA
Coronidium gunnianum	Pale Swamp Everlasting		v		8	VBA
Correa aemula	Hairy Correa		r		8	VBA
Correa lawrenceana var. *grampiana*	Grampians Mountain-correa		r		1	VBA
Daviesia laevis	Grampians Bitter-pea	VU	v	L	20	VBA/PMST
Deyeuxia imbricata	Dense Bent-grass		v		1	VBA
Dianella amoena	Matted Flax-lily	EN	e	L	23	VBA/PMST
Dianella longifolia var. *grandis*	Arching Flax-lily		v		1	VBA
Diuris basaltica	Small Golden Moths	EN	e	L	7	VBA/PMST
Diuris behrii	Golden Cowslips		v		86	VBA

Diuris gregaria	Clumping Golden Moths		e	L	13	VBA
Diuris palustris	Swamp Diuris		v	L	3	VBA
Dodonaea procumbens	Trailing Hop-bush	VU	v		9	VBA/PMST
Encalypta vulgaris	Common Extinguisher-moss		r		1	VBA
Eucalyptus camaldulensis	River Red-gum			X	314	VBA
Eucalyptus falciformis	Western Peppermint		r		1	VBA
Eucalyptus sabulosa	Wimmera Scentbark		r		3	VBA
Eucalyptus yarraensis	Yarra Gum		r	X	44	VBA
Euphrasia scabra	Rough Eyebright		e	L	1	VBA
Galium curvihirtum	Tight Bedstraw		r		5	VBA
Geranium sp. *3*	Pale-flower Crane's-bill		r		1	VBA
Glycine latrobeana	Clover Glycine	VU	v	L	7	VBA/PMST
Goodenia lineata	Grampians Goodenia		r		1	VBA
Goodia medicaginea	Western Golden-tip		r		1	VBA
Goodia pubescens	Silky Golden-tip		r		1	VBA
Gratiola pumilo	Dwarf Brooklime		r		1	VBA
Grevillea dimorpha	Flame Grevillea		r		1	VBA
Grevillea floripendula	Ben Major Grevillea	VU	v	L	1	VBA
Grevillea montis-cole subsp. *brevistyla*	Langi Ghiran Grevillea	VU	v	L	7	VBA/PMST
Grevillea montis-cole subsp. *montis-cole*	Mount Cole Grevillea		r		12	VBA
Grevillea rosmarinifolia subsp. *rosmarinifolia*	Rosemary Grevillea		r		6	VBA
Hibbertia humifusa subsp. *humifusa*	Rising Star Guinea-flower		r		8	VBA
Lachnagrostis adamsonii	Adamson's Blown-grass	EN	v	L	50	VBA/PMST
Lachnagrostis punicea subsp. *punicea*	Purple Blown-grass		r		10	VBA
Lachnagrostis robusta	Salt Blown-grass		r		17	VBA
Lawrencia spicata	Salt Lawrencia		r		7	VBA
Lepidium aschersonii	Spiny Peppercress	VU	e	L	6	VBA/PMST
Lepidosperma canescens	Hoary Rapier-sedge		r		3	VBA
Leptorhynchos elongatus	Lanky Buttons		e		2	VBA

Leptorhynchos orientalis	Annual Buttons		e	L	2	VBA
Leptospermum turbinatum	Shiny Tea-tree		r		10	VBA
Lepyrodia flexuosa	Twisting Scale-rush		r		4	VBA
Leucochrysum albicans subsp. *tricolor*	White Sunray	EN	e	L	143	VBA/PMST
Leucopogon neurophyllus	Veined Beard-heath		r		3	VBA
Parietaria australis	Western Pellitory		r		1	VBA
Pimelea pagophila	Grampians Rice-flower	VU	v	L		PMST
Pimelea spinescens subsp. *spinescens*	Spiny Rice-flower	CR	e	L	238	VBA/PMST
Poa physoclina	Wind-blown Tussock-grass		e	L	3	VBA
Poa sallacustris	Salt-lake Tussock-grass	VU	v	L	2	VBA/PMST
Podolepis linearifolia	Basalt Podolepis		e		2	VBA
Prasophyllum diversiflorum	Gorae Leek-orchid	EN	e	L		PMST
Prasophyllum suaveolens	Fragrant Leek-orchid	EN	e	L	25	VBA/PMST
Prasophyllum validum	Sturdy Leek-orchid	VU				PMST
Pterostylis chlorogramma	Green-striped Greenhood	VU	v	L		PMST
Pterostylis smaragdyna	Emerald-lip Greenhood		r		68	VBA
Pterostylis X *ingens*	Sharp Greenhood		r		2	VBA
Pterostylis X *toveyana*	Mentone Greenhood		v		1	VBA
Ptilotus erubescens	Hairy Tails		v	L	43	VBA
Pultenaea subalpina	Rosy Bush-pea		r		1	VBA
Ranunculus diminutus	Brackish Plains Buttercup		r		1	VBA
Rutidosis leptorhynchoides	Button Wrinklewort	EN	e	L	114	VBA/PMST
Rytidosperma monticola	Small-flower Wallaby-grass		r		4	VBA
Sarcozona praecox	Sarcozona		r		1	VBA
Schoenus nanus	Tiny Bog-sedge		r		6	VBA
Senecio cunninghamii var. *cunninghamii*	Branching Groundsel		r		1	VBA
Senecio macrocarpus	Large-headed Fireweed	VU	e	L	37	VBA/PMST
Senecio psilocarpus	Swamp Fireweed, Smooth-fruited Groundsel	VU	v			PMST
Sphaerolobium acanthos	Grampians Globe-pea	CR	r	L		PMST

Swainsona behriana	Southern Swainson-pea		r		1	VBA
Thelymitra epipactoides	Metallic Sun-orchid	EN	e	L	3	VBA/PMST
Thelymitra gregaria	Basalt Sun-orchid		e	L	23	VBA
Thelymitra luteocilium	Fringed Sun-orchid		r		4	VBA
Thelymitra matthewsii	Spiral Sun-orchid	VU	v	L		PMST
Thelymitra X *chasmogama*	Globe-hood Sun-orchid		v		1	VBA
Thelymitra X *macmillanii*	Crimson Sun-orchid		v		8	VBA
Triglochin mucronata	Prickly Arrowgrass		r		1	VBA
Wahlenbergia planiflora subsp. *planiflora*	Flat Bluebell		v		2	VBA
Wurmbea uniflora	One-flower Early Nancy		r		1	VBA
Xanthorrhoea glauca subsp. *angustifolia*	Grey Grass-tree		e	L	1	VBA
Xanthosia leiophylla	Parsley Xanthosia		r		1	VBA
Xerochrysum palustre	Swamp Everlasting, Swamp Paper Daisy	VU	v	L		PMST