FIGURES

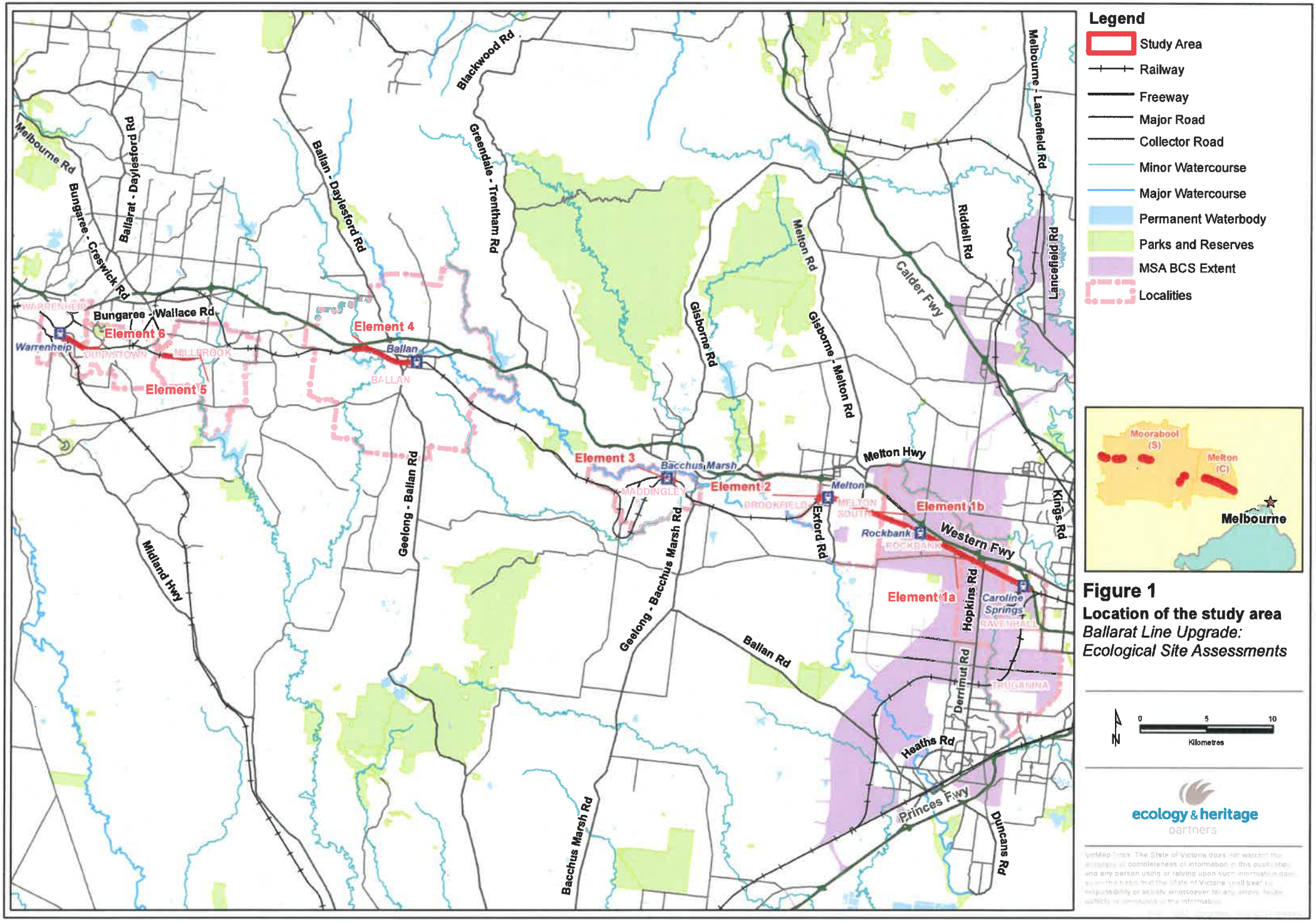

Figure 1

Location of the study area

Ballarat Line Upgrade: Ecological Site Assessments

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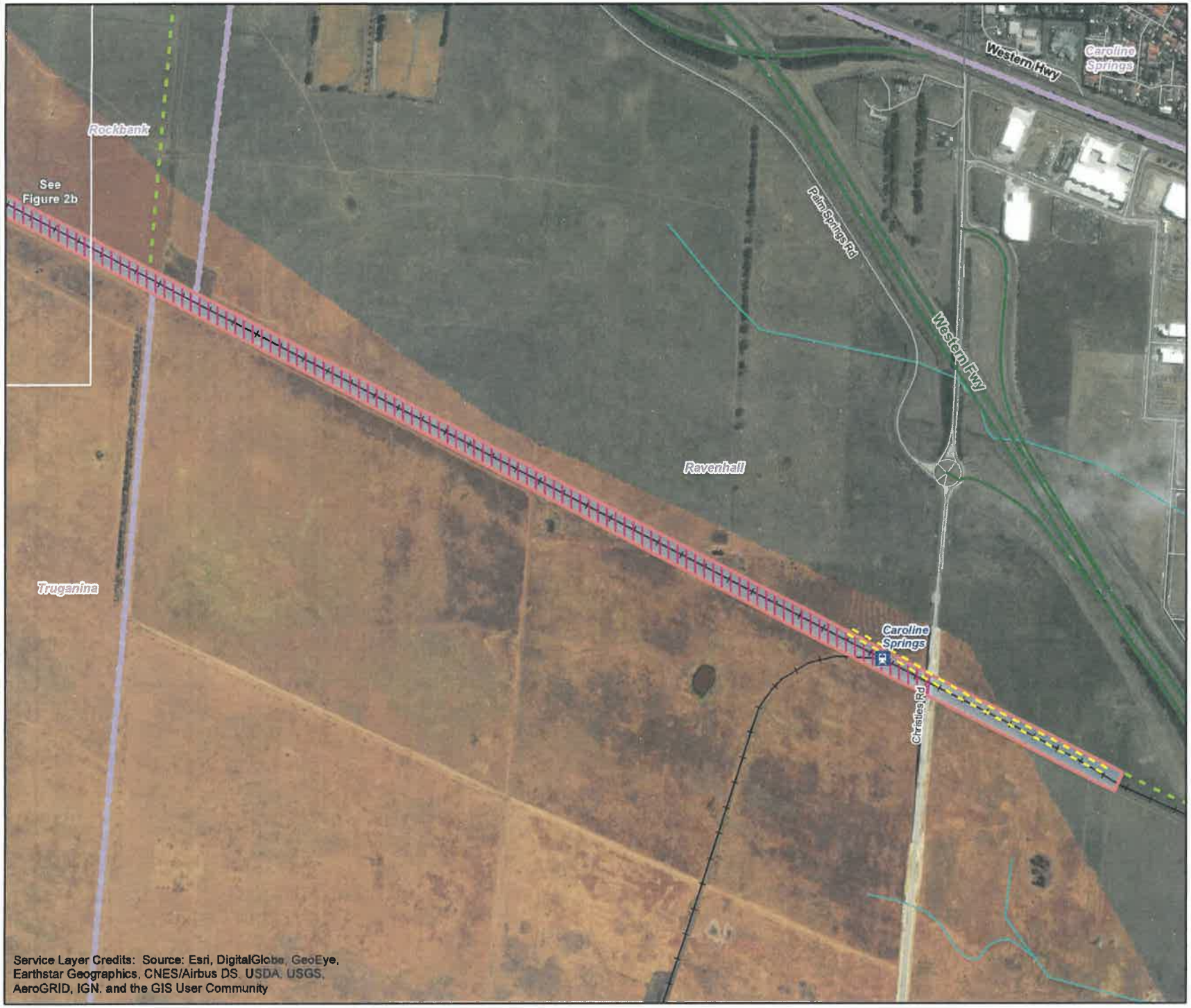

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Element 1a: Duplication between Deer Park West and Melton ((Inside MSA: Inside BCS)
- Targeted flora survey (spring/summer)
- Targeted flora survey (Winter)

Other features

- Localities
- MSA BCS Extent

Figure 2a

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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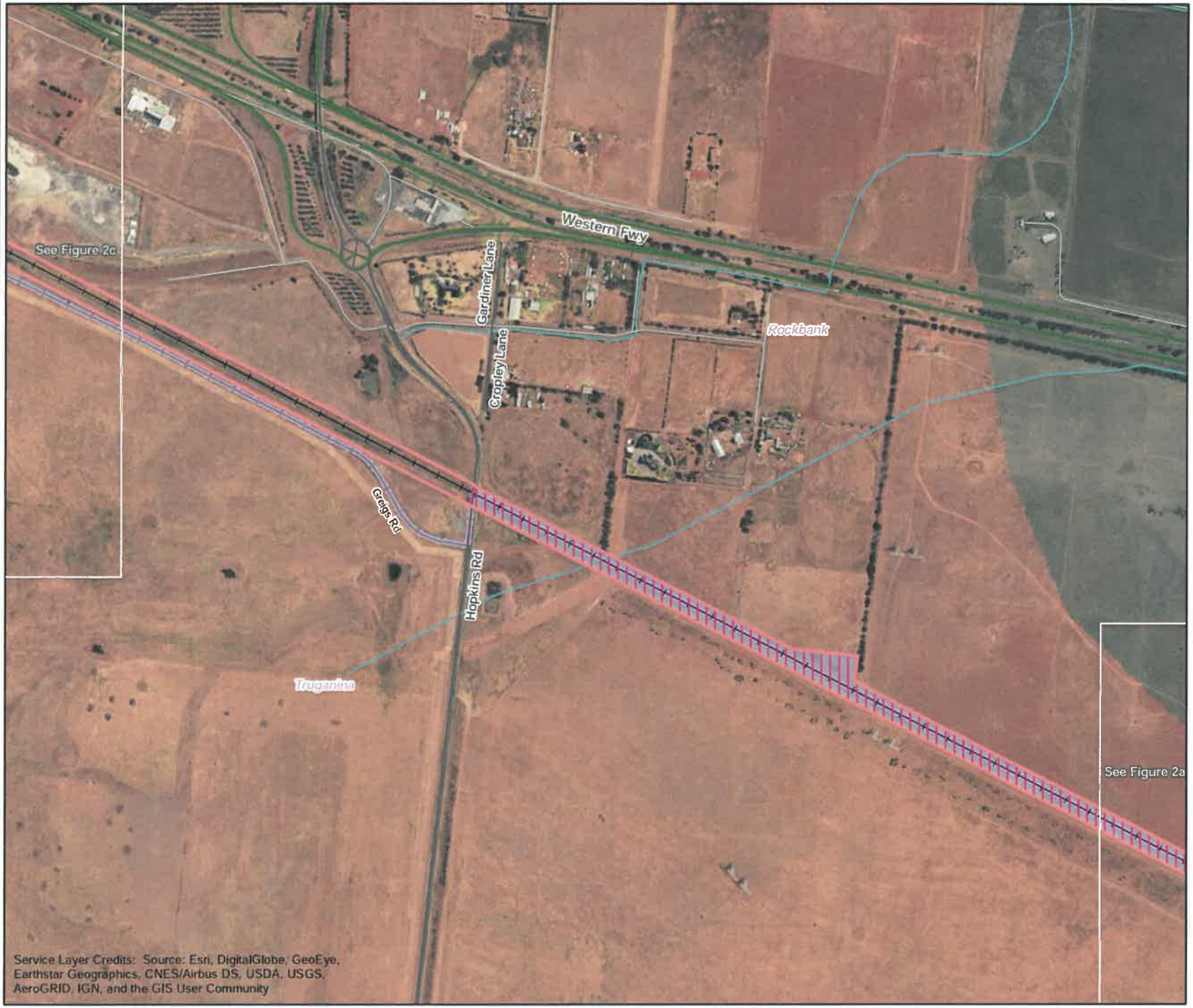
9442 r202 argSurvLoc 14/02/2017 mwisley



Legend

- Element 1a: Duplication between Deer Park West and Melton ((Inside MSA: Inside BCS)
- Targeted flora survey (spring/summer)
- Targeted flora survey (Winter)

Other features

- Localities
- MSA BCS Extent

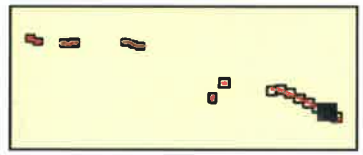


Figure 2b

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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Legend

Element 1a: Duplication between Deer Park West and Melton ((Inside MSA: Inside BCS)

Other features

Localities

MSA BCS Extent

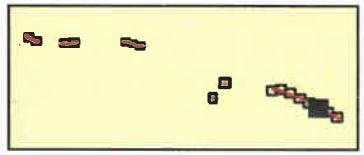

Figure 2c

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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F002_TaraSurvl.cx MB 14/02/201 mel-lay

Legend

Element 1a: Duplication between Deer Park West and Melton ((Inside MSA: Inside BCS)

Other features

Localities

MSA BCS Extent

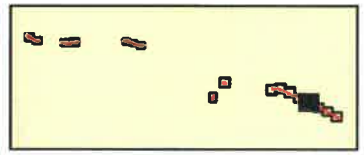

Figure 2d

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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Legend

- Element 1a: Duplication between Deer Park West and Melton ((Inside MSA: Inside BCS)
- Element 1b: Duplication between Deer Park West and Melton (Inside MSA: Inside Toolern PSP)
- Targeted Striped Legless Lizard tile grid locations
- Targeted flora survey (spring/summer)
- Targeted flora survey (Winter)

Other features

- Localities
- MSA BCS Extent
- Toolern PSP

Figure 2e

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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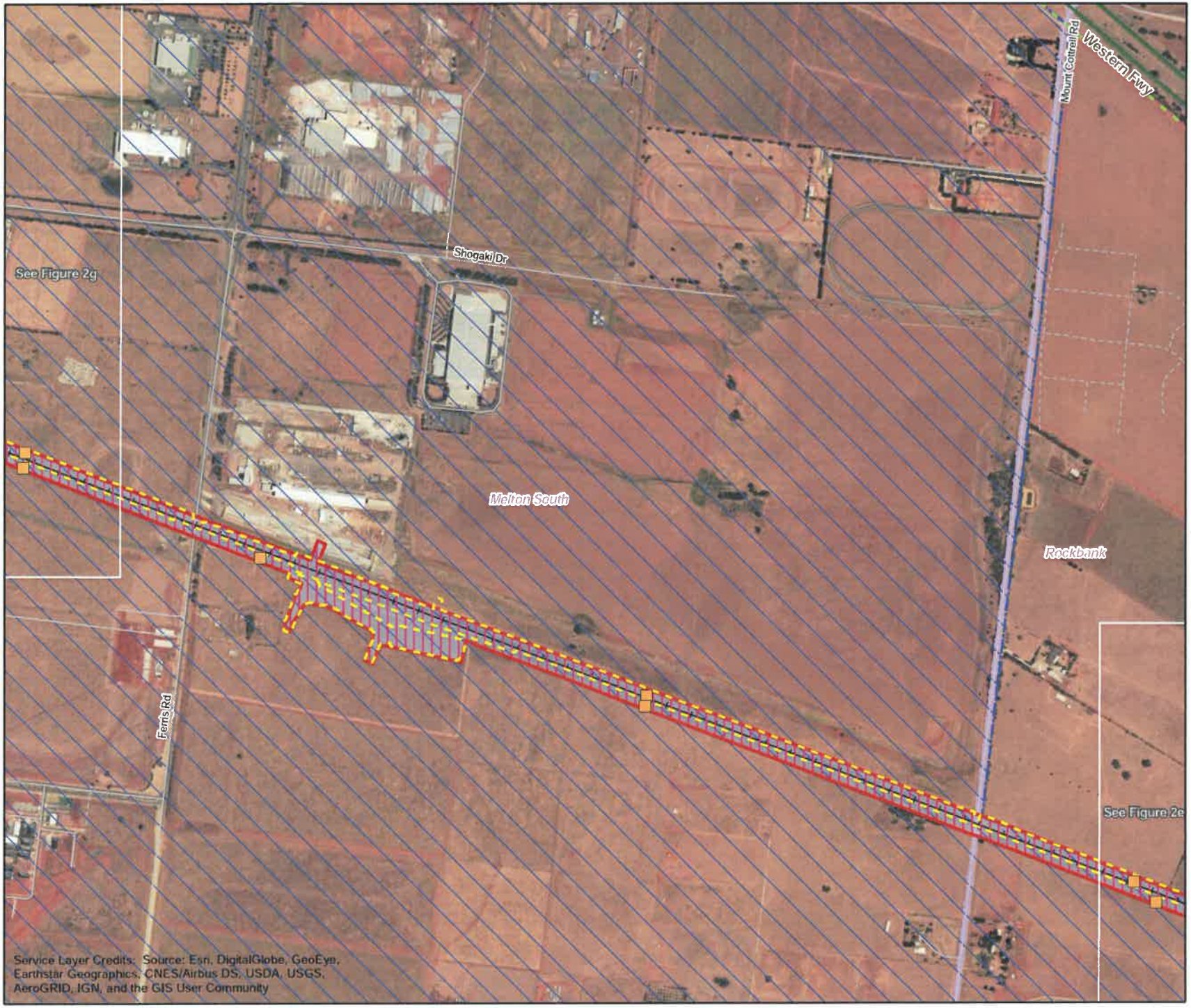
8442_Fig02_Targeted_MB_MB_Rev0b_mpsley



Legend

- Element 1b: Duplication between Deer Park West and Melton (Inside MSA: Inside Toolern PSP)
- Targeted Striped Legless Lizard tile grid locations
- Targeted flora survey (spring/summer)
- Targeted flora survey (Winter)

Other features

- Localities
- MSA BCS Extent
- Toolern PSP

Figure 2f

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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Legend

- Element 1b: Duplication between Deer Park West and Melton (Inside MSA: Inside Toolern PSP)
- Element 1c: Duplication between Deer Park West and Melton (outside MSA)
- Aquatic survey
- Targeted Growling Grass Frog survey (detailed)
- Targeted Growling Grass Frog survey (auditory)
- Targeted Striped Legless Lizard tile grid locations
- Targeted flora survey (spring/summer)
- Targeted flora survey (Winter)

Other features

- Localities
- Toolern PSP

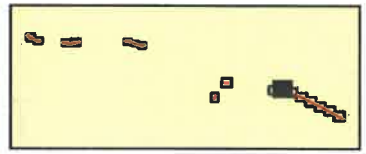

Figure 2g

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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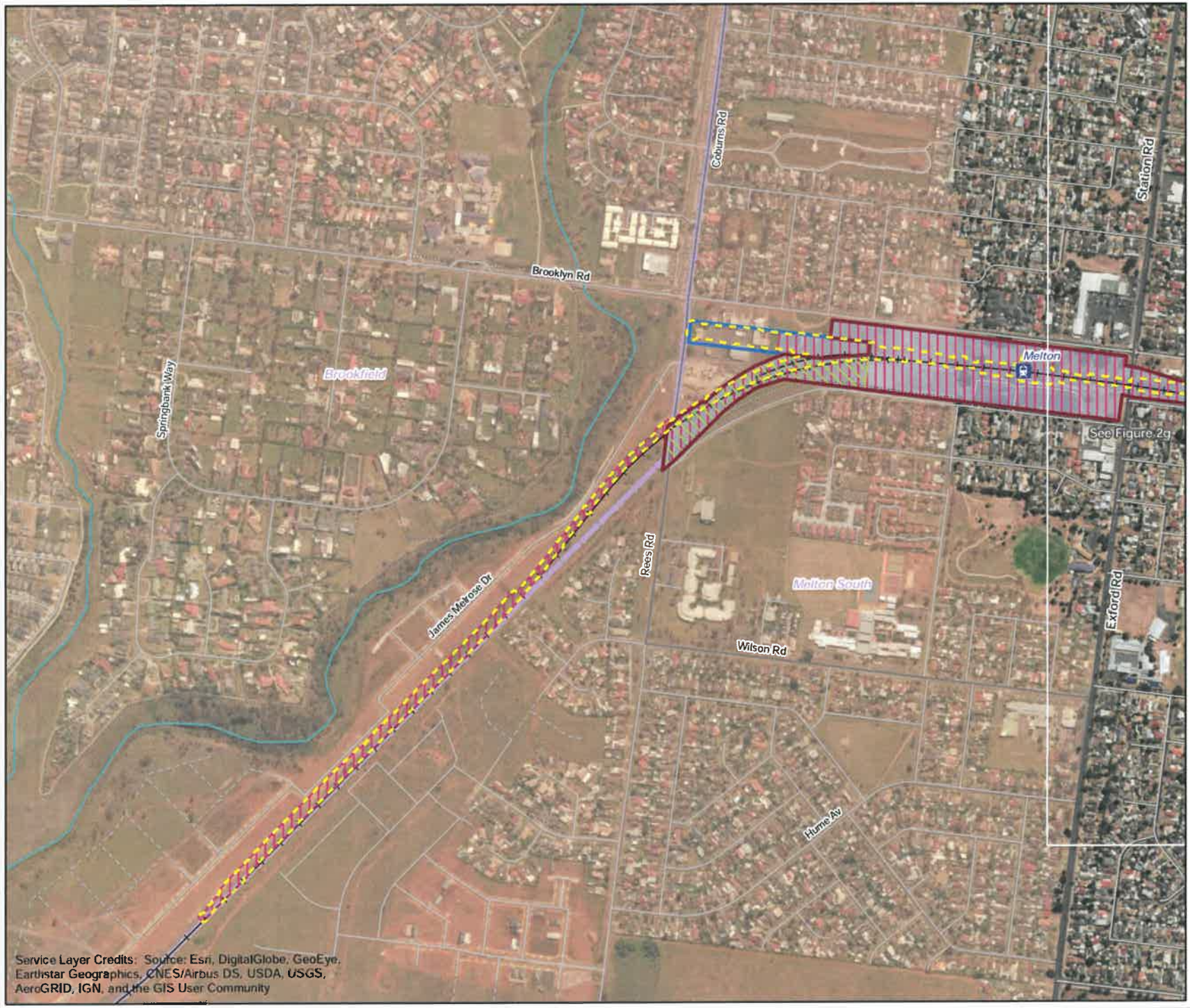

Legend

- Element 1c: Duplication between Deer Park West and Melton (outside MSA)
- Element 2 - Stabling at Melton Station
- Targeted flora survey (spring/summer)
- Targeted flora survey (Winter)
- Targeted Golden Sun Moth survey

Other features

- Localities

Figure 2h

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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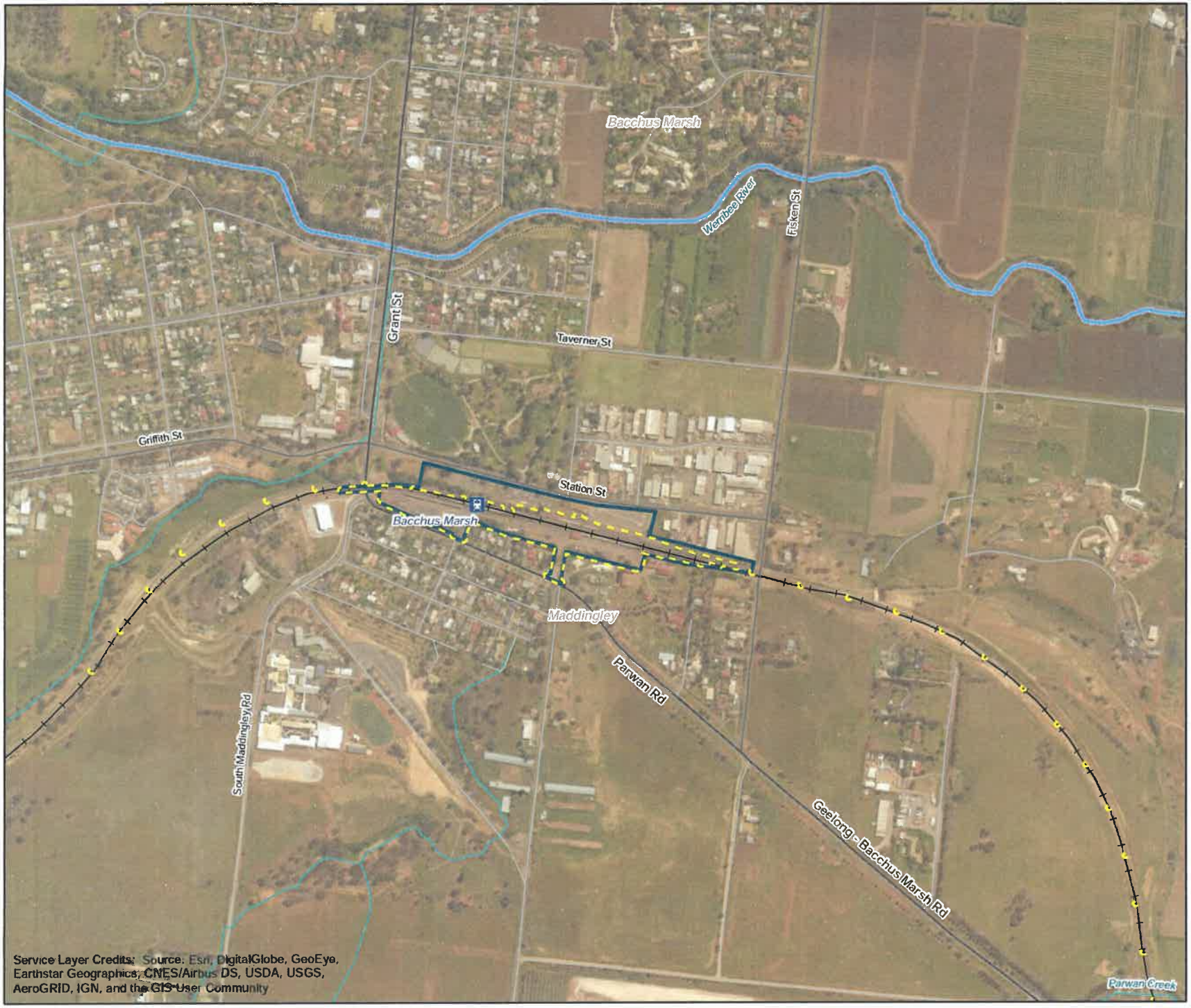

Legend

Element 3 - Bacchus Marsh to Rowsley Stabling

Other features

Localities

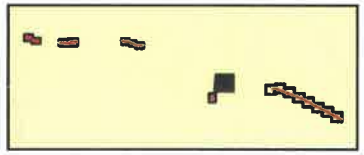

Figure 2i

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 150 300

Metres

ecology & heritage partners

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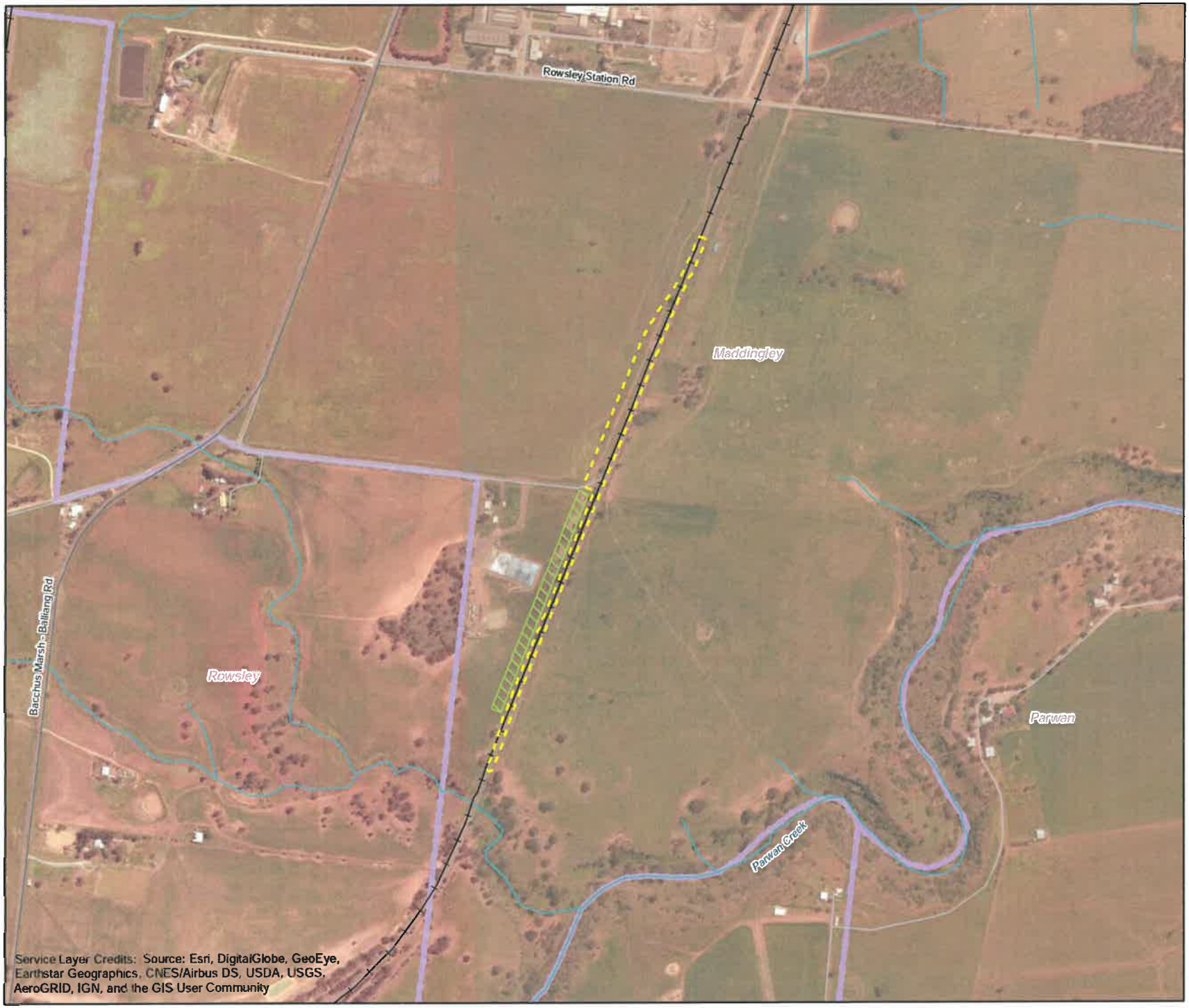
8442 q02 TargSurvl.cs



Legend

Targeted Golden Sun Moth survey

Other features

Localities

Figure 2j

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 145 290

Metres

ecology & heritage partners

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Legend

- Element 4 - Ballan Loop
- Targeted flora survey (spring/summer)
- Targeted Golden Sun Moth survey

Other features

- Localities

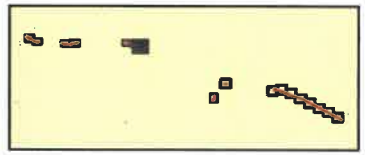

Figure 2k

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 110 220

Metres

ecology & heritage partners

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84_2_F-002_ 1 2/2017 melclay

Legend

- Element 4 - Ballan Loop
- Targeted flora survey (spring/summer)
- Targeted Golden Sun Moth survey

Other features

- Localities

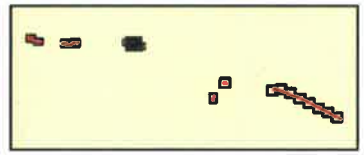

Figure 2l

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 110 220

Metres

ecology & heritage partners

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Legend

- Element 4 - Ballan Loop
- Aquatic survey
- Targeted Growling Grass Frog survey (detailed)
- Targeted flora survey (spring/summer)
- Targeted Golden Sun Moth survey

Other features

- Localities

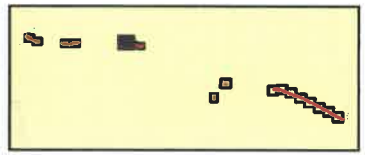

Figure 2m

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 110 220

Metres

ecology & heritage partners

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Legend

- Element 5 - Spreadeagle (new Bungaree) Loop
- Targeted flora survey (spring/summer)
- Targeted Golden Sun Moth survey

Other features

- Localities

Figure 2n

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 135 270

Metres

ecology & heritage partners

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Legend

- Element 5 - Spreadeagle (new Bungaree) Loop
- Targeted flora survey (spring/summer)
- Targeted Golden Sun Moth survey

Other features

- Localities

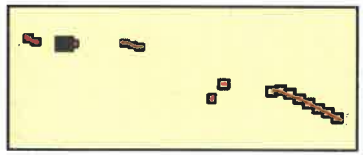

Figure 2o

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 140 280

Metres

ecology & heritage partners

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8442_Fig02_TargSrvd.o_MB 14/02/201

Legend

- Element 6 - Warrenheip duplication
- Targeted Growling Grass Frog survey (auditory)
- Targeted flora survey (spring/summer)

Other features

- Localities

Figure 2p

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

N

0 130 260

Metres

ecology & heritage partners

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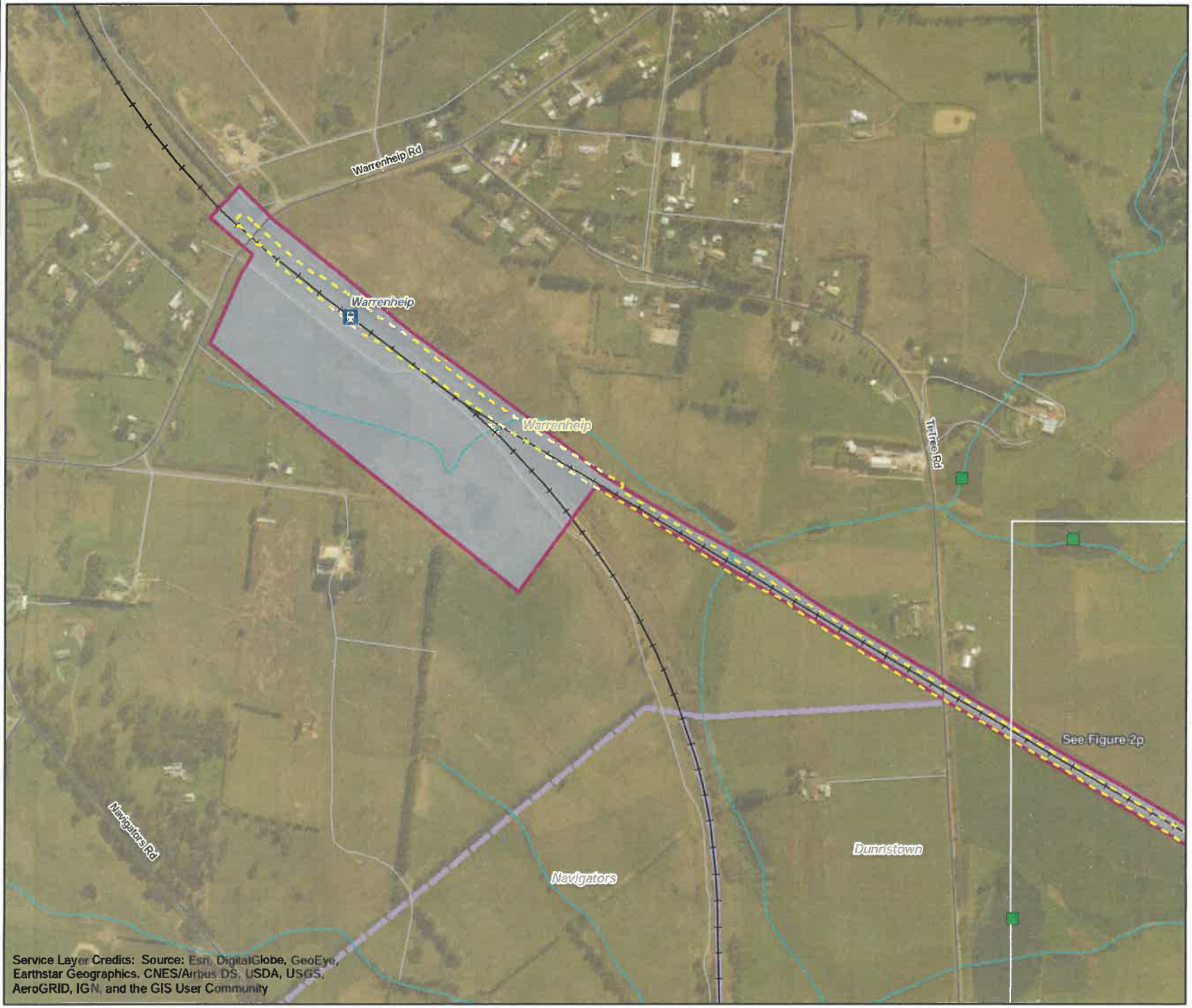

Legend

- Element 6 - Warrenheip duplication
- Targeted Growling Grass Frog survey (auditory)
- Targeted flora survey (spring/summer)

Other features

- Localities

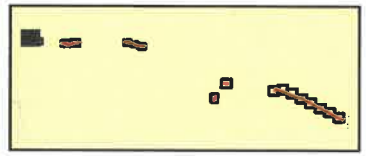

Figure 2q

Targeted Survey Locations

Ballarat Line Upgrade: Ecological Site Assessments

0 130 260

Metres

ecology & heritage partners

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Last updated: MB 14/02/2017 melsley

Legend

Element 1a: Duplication between Deer Park West and Melton (Inside MSA: Inside BCS)

EPBC Act listed species

Spiny Rice-flower

Other features

Localities

MSA BCS Extent

Figure 3a

Ecological features

Ballarat Line Upgrade: Ecological Site Assessments

N

0 75 150

Metres

ecology & heritage partners

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