



**SOUTHERN CROSS
GOLDFIELDS LTD**

**ENVIRONMENTAL REFERRAL
MARDA GOLD PROJECT**

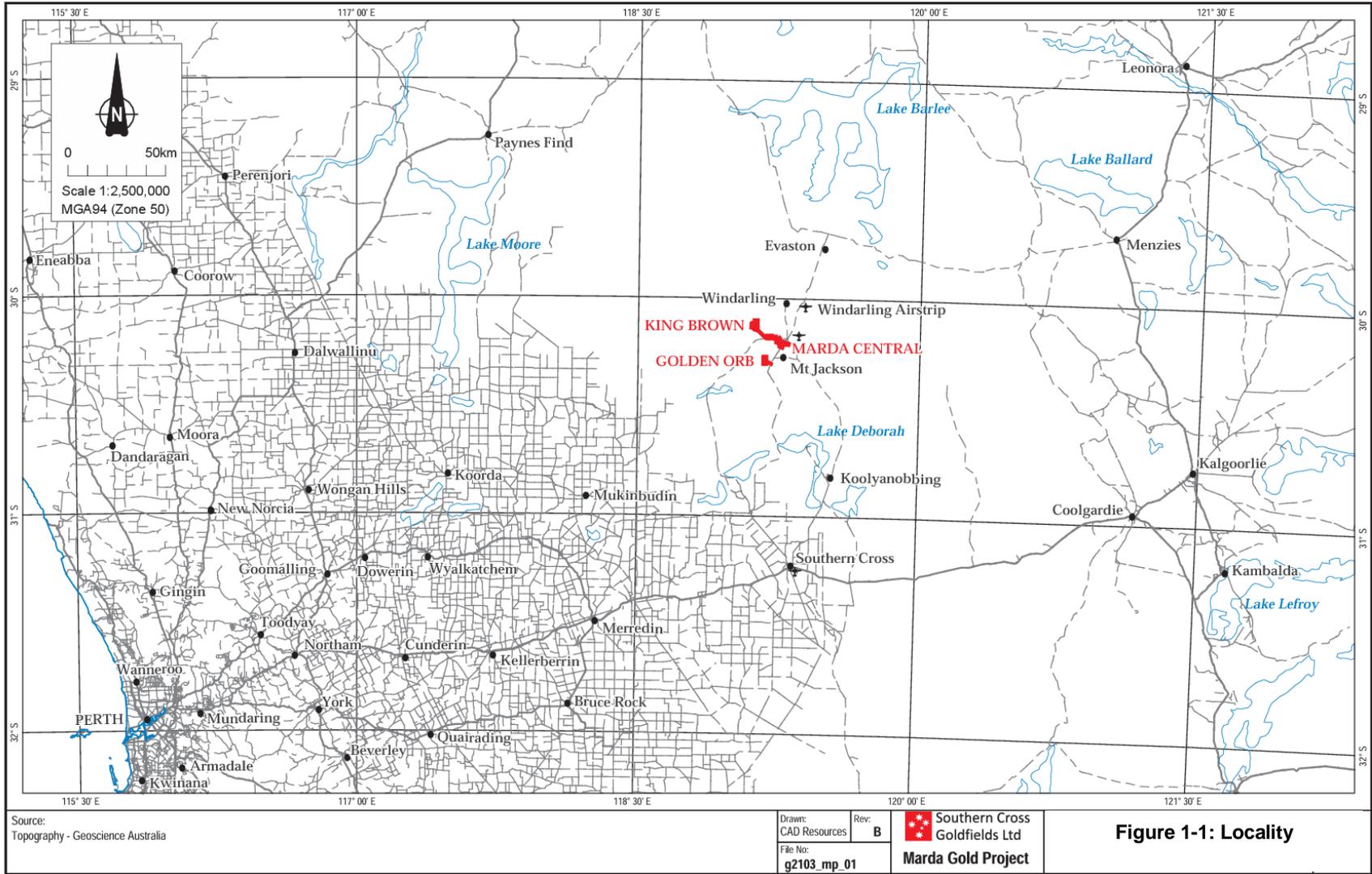
ATTACHMENT 1: FIGURES

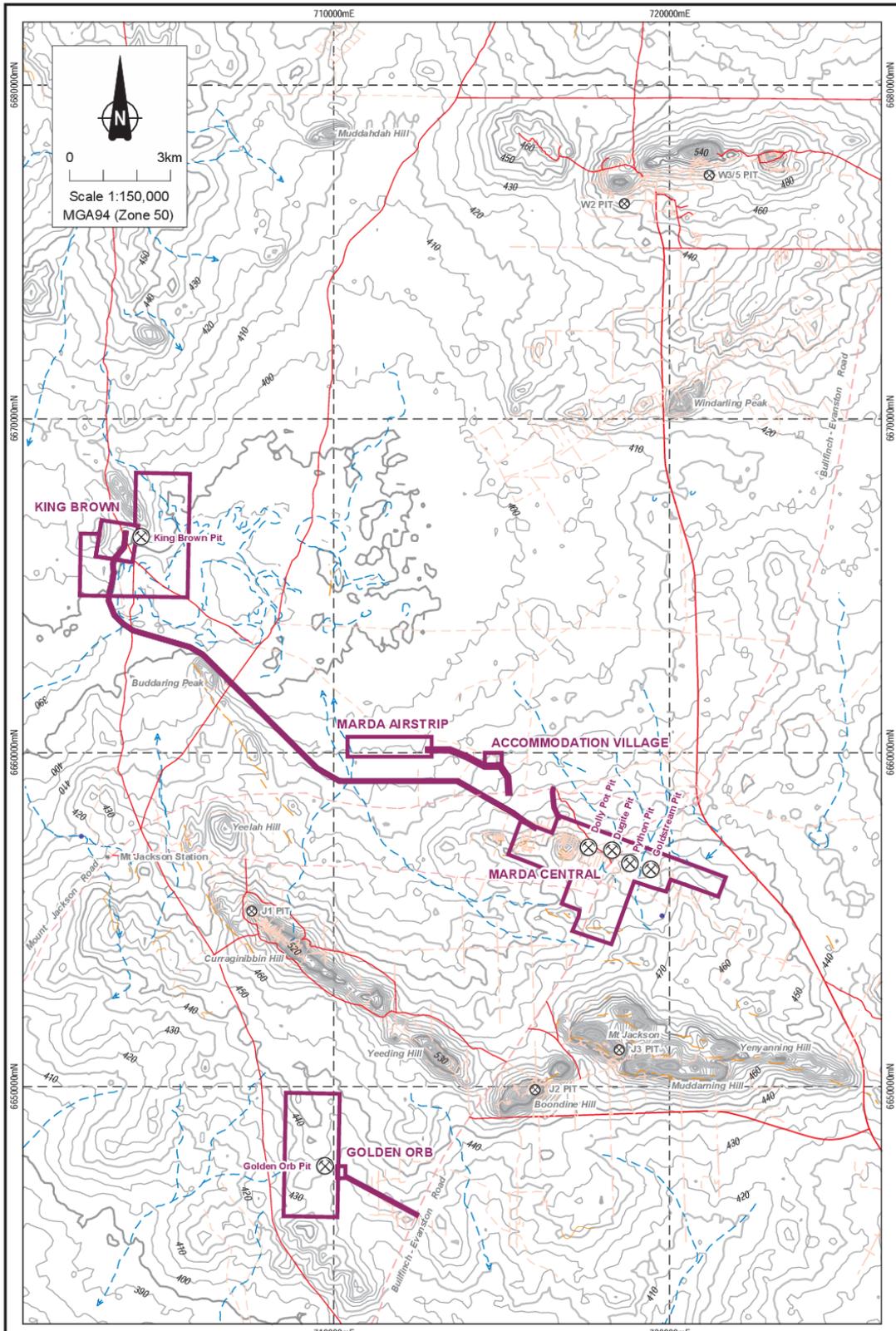
(Note: These figures are referenced in the
Environmental Referral Supporting Document)

2 JANUARY 2014

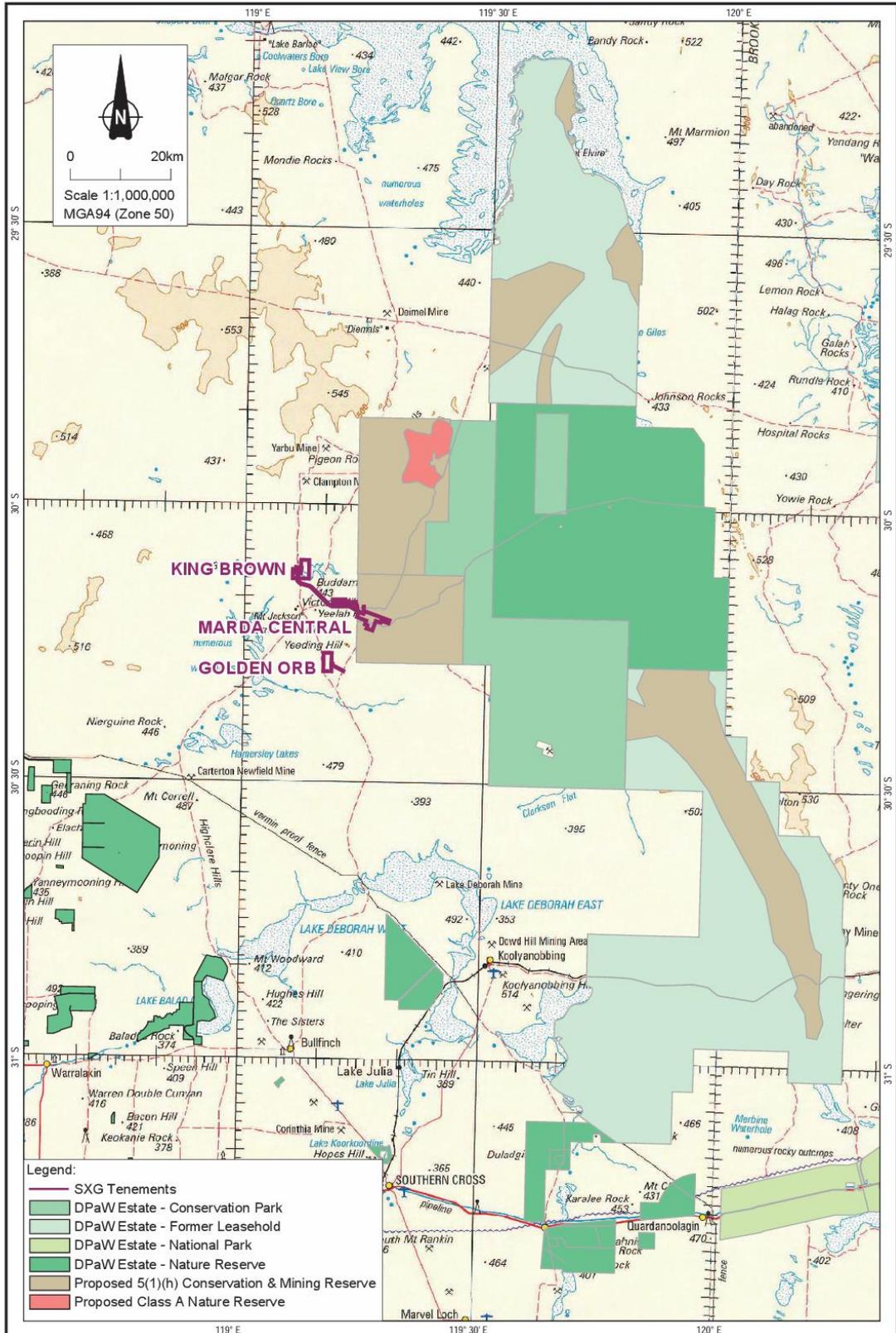
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Source: Tenements - DMP Planimetry - Landgate Relief - SRTM 5m contours	Drawn: CAD Resources Rev: B File No: g2103_mp_02	 Southern Cross Goldfields Ltd Marda Gold Project	Figure 1-2: General Site Layout
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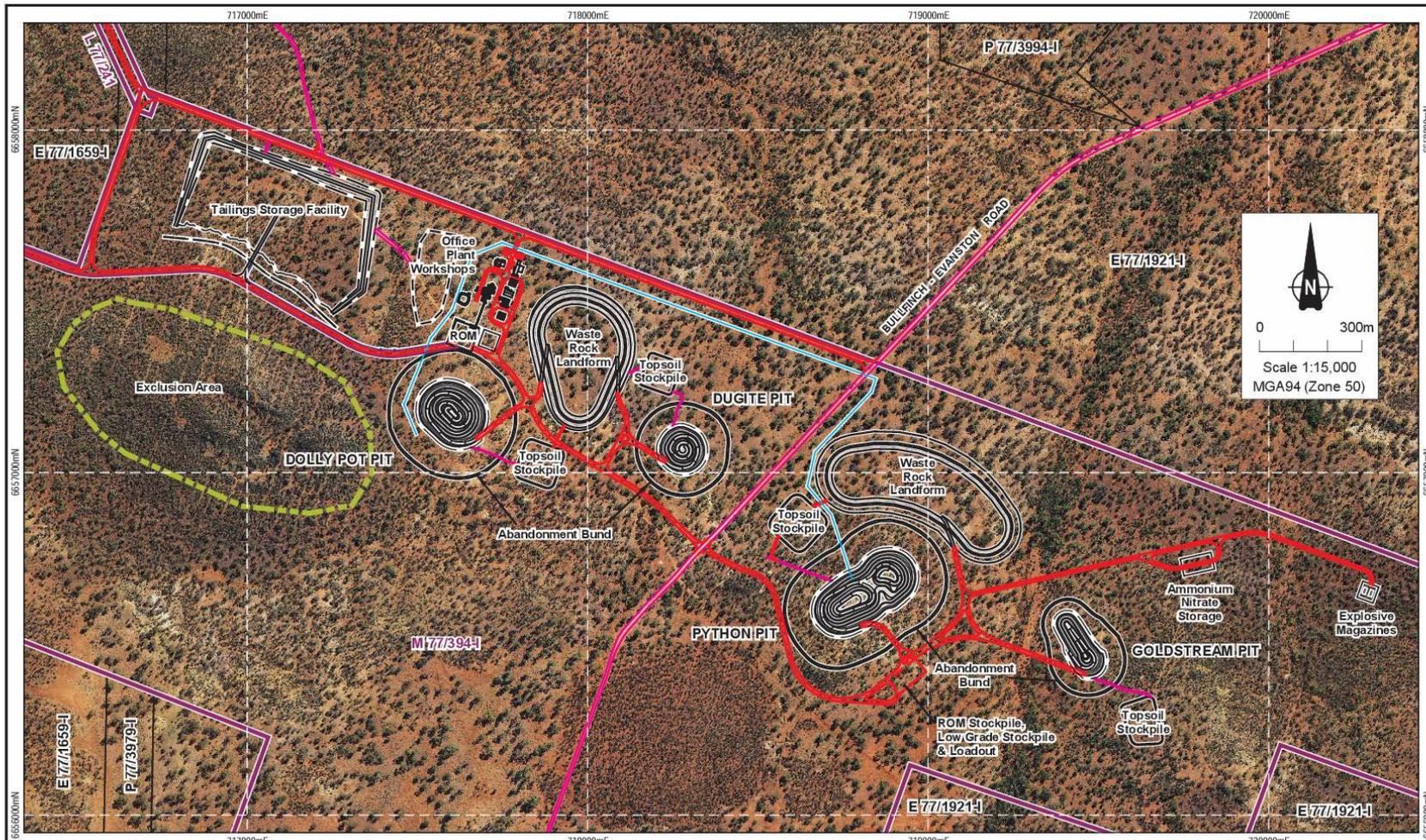


Source:
Existing and Proposed DPaW Estate - DPaW (30/10/2012)
Proposed Estate is indicative only and subject to change

Drawn:
CAD Resources
Rev: **B**
File No:
g2103_mp_13_01

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**Figure 1-3: Regional
Conservation Estate**



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (18/12/2013)

Legend:

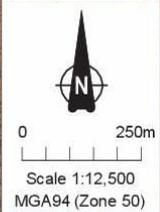
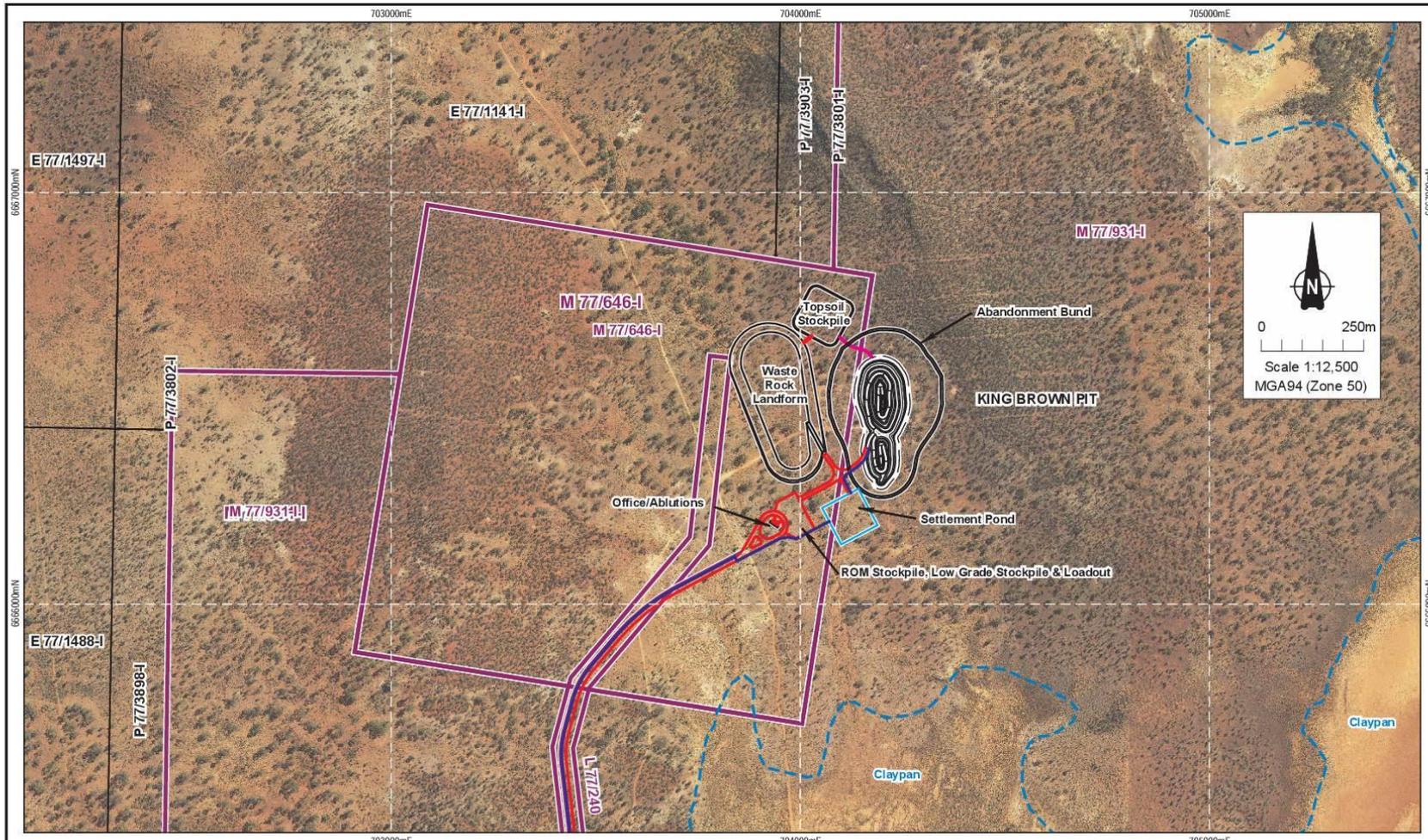
- Proposed Roads
- Existing Track
- Proposed Bore Water Pipeline
- Proposed Infrastructure

Drawn:
 CAD Resources
 File No:
 g2103_mp_03_01

Rev:
 B

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**Figure 2-1: Marda Central
 General Arrangement**



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (18/12/2013)

Legend:

- Proposed Roads
- Existing Track
- Proposed Settlement Pond
- Proposed Infrastructure

Drawn:
 CAD Resources

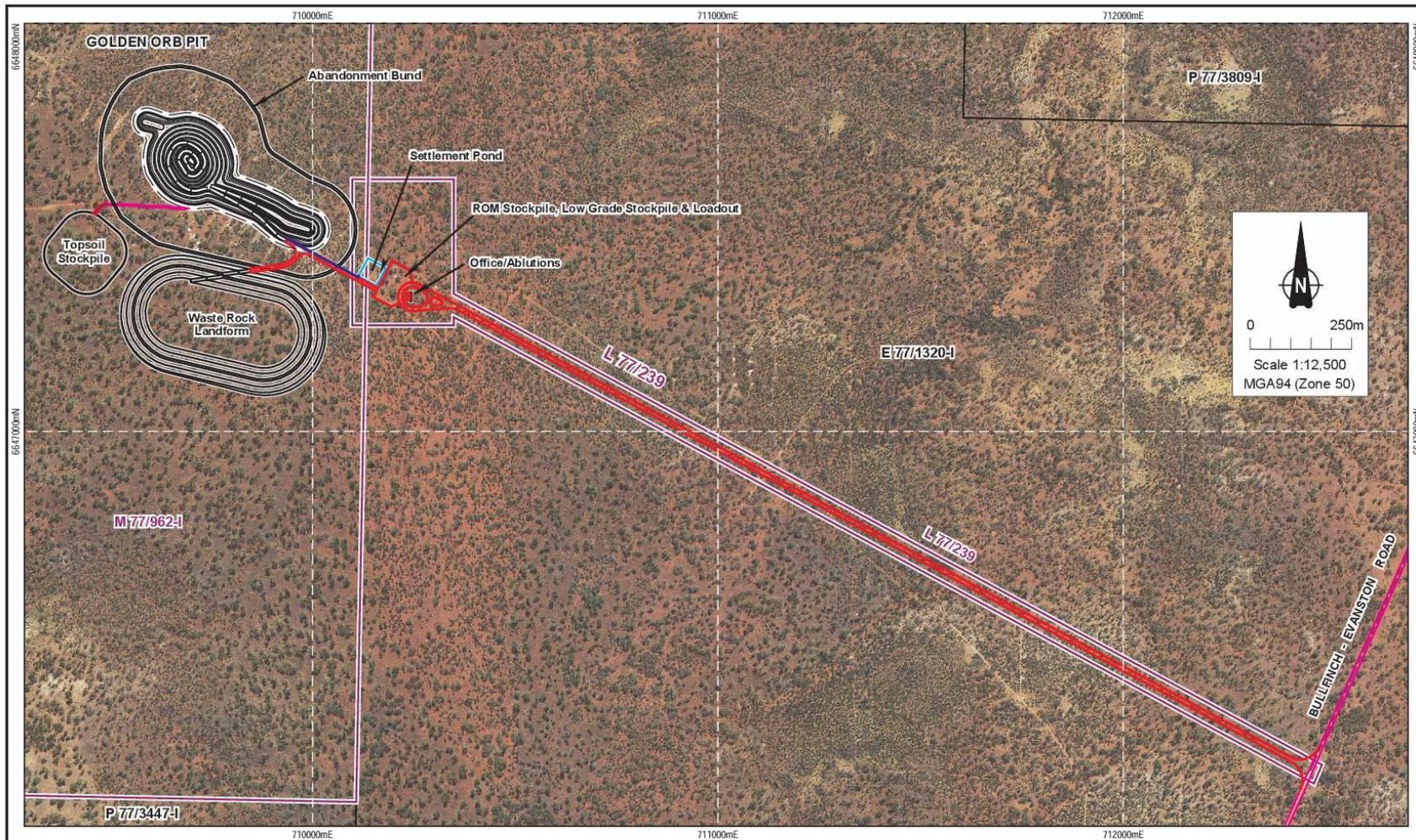
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 g2103_mp_03_02

Rev:
 B

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**Figure 2-2: King Brown
 General Arrangement**



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (18/12/2013)

- Legend:
- Proposed Roads
 - Existing Track
 - Proposed Settlement Pond
 - Proposed Infrastructure

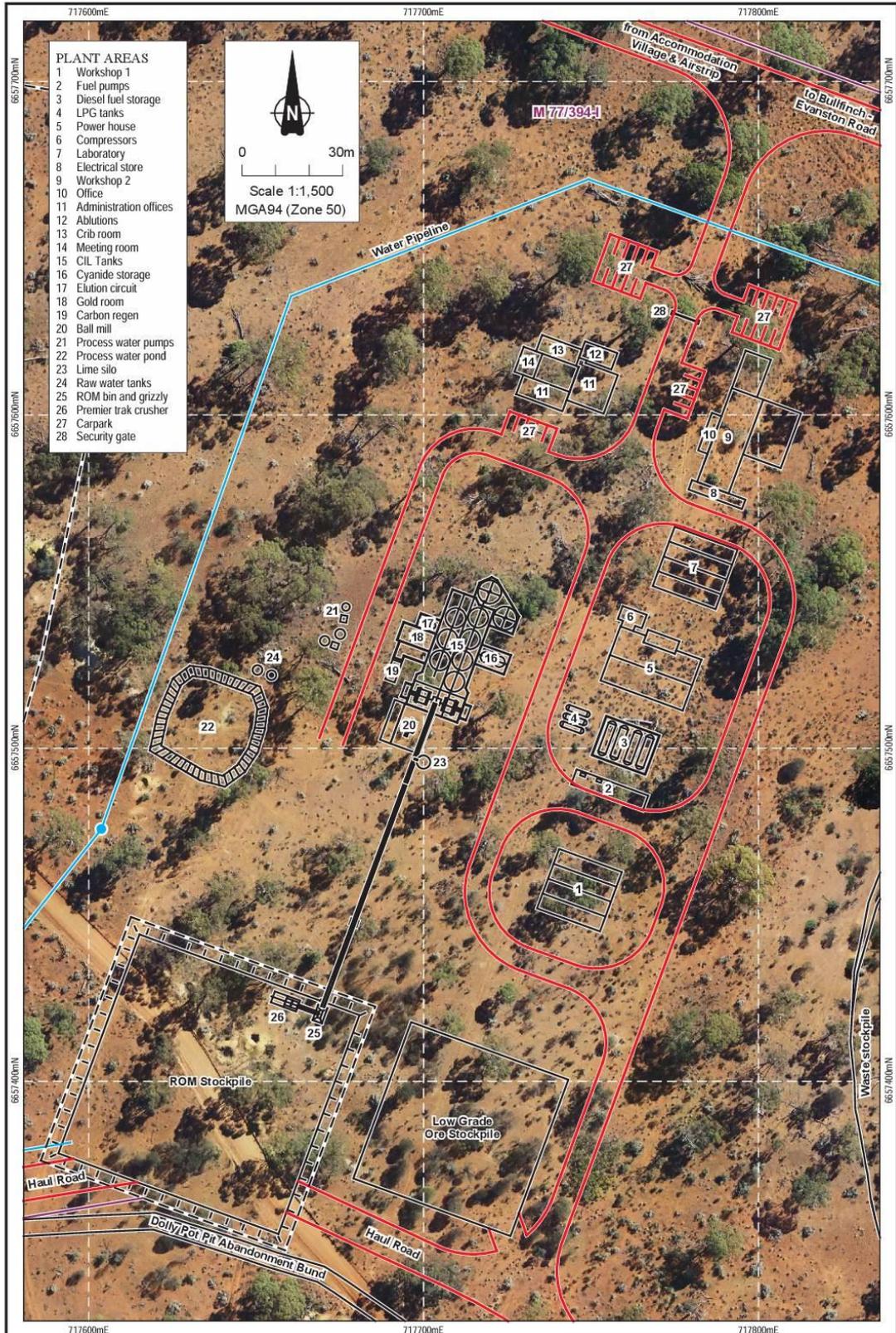
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File No:
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**Figure 2-3: Golden Orb
 General Arrangement**

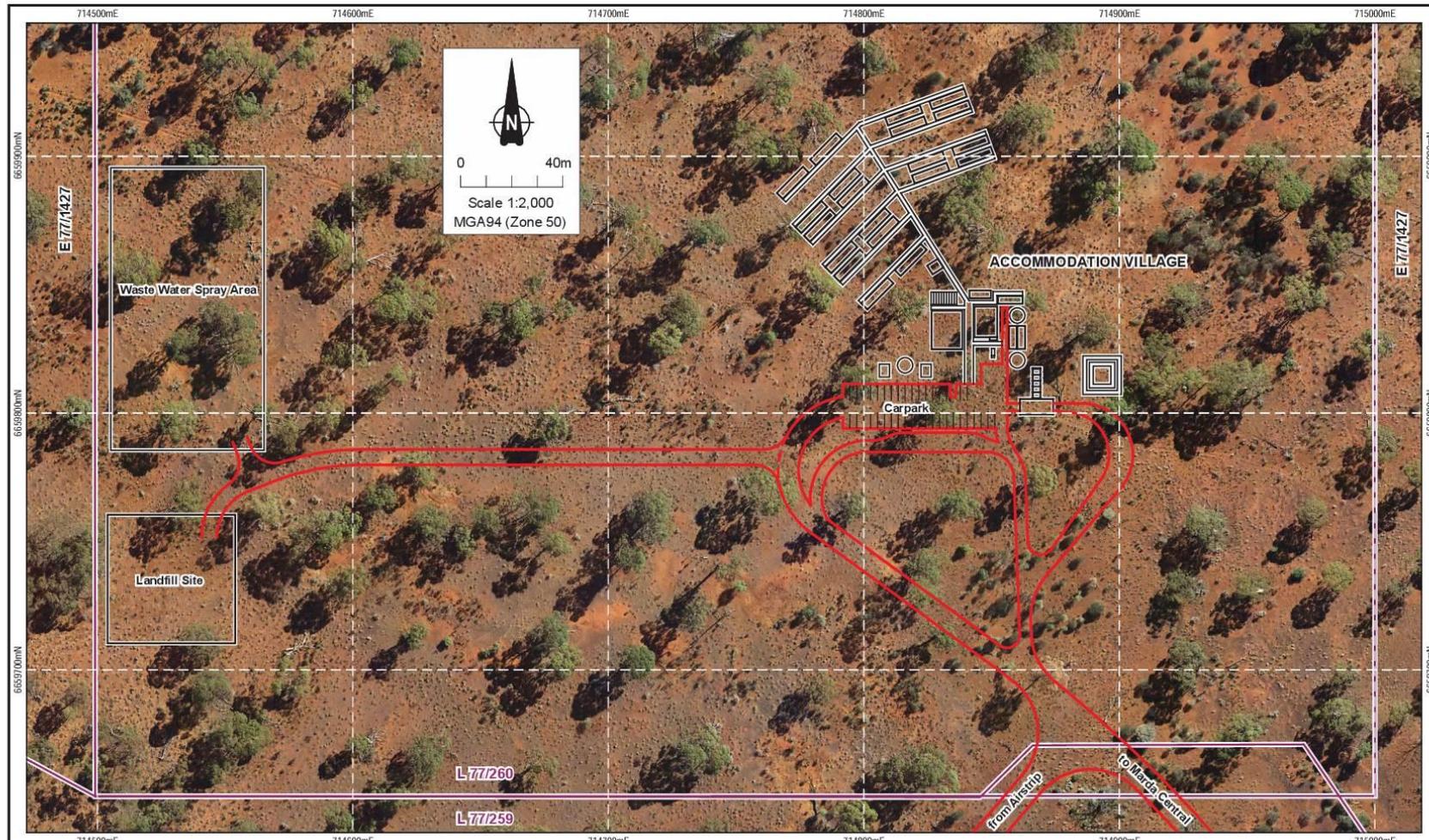


Source: Tenements - DMP
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Original layout by Como Engineering (23/1/2012)
 Revised infrastructure layout - SXG (10/12/2013)

Drawn: CAD Resources
 Rev: C
 File No: g2103_mp_04

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Figure 2-4: Marda Central Plant General Arrangement



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (18/12/2013)

Legend:

- Proposed Roads
- Proposed Infrastructure
- Proposed Accommodation Unit

Drawn:
 CAD Resources

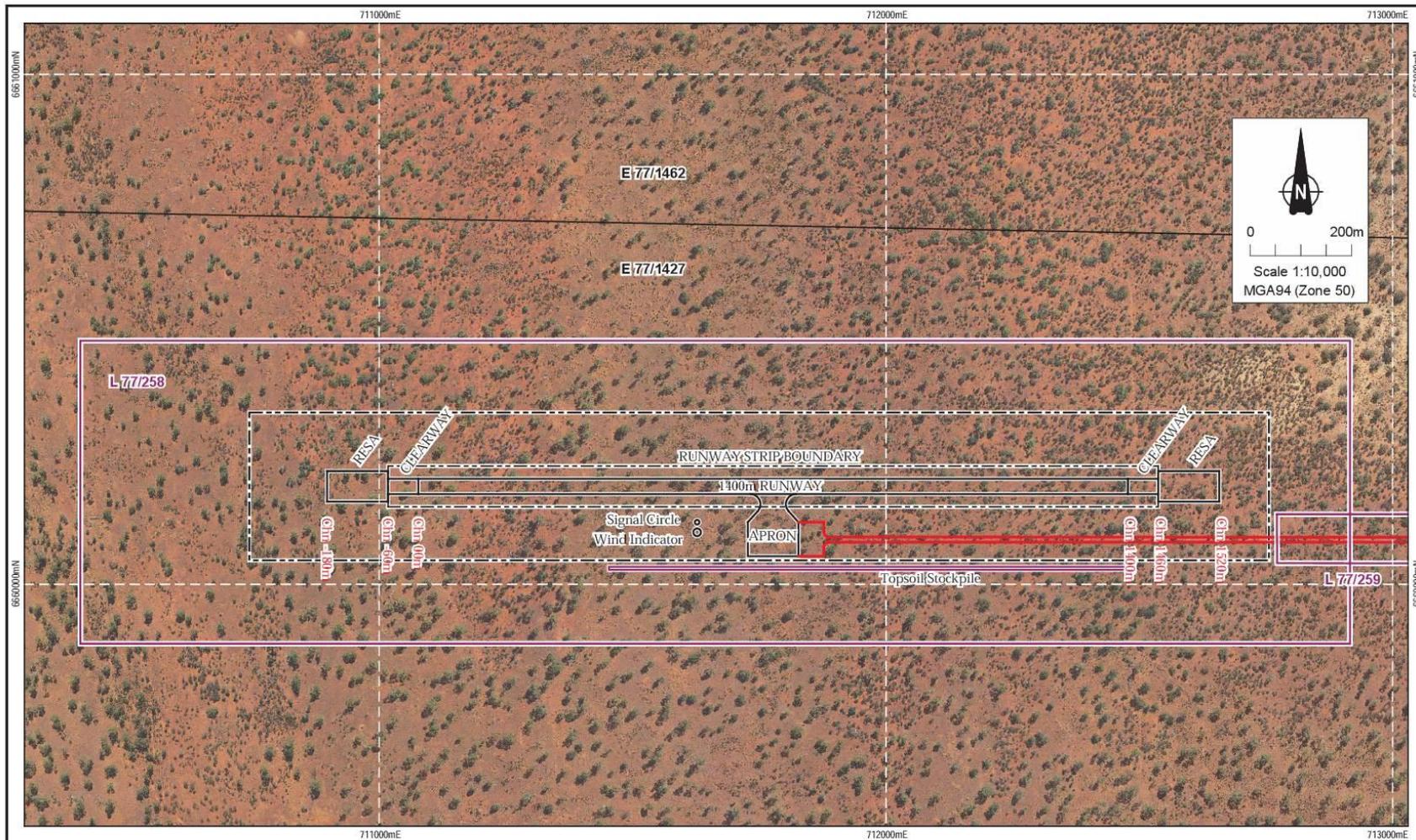
Rev:
B

File No:
g2103_mp_03_04

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Figure 2-5: Accommodation Village General Arrangement



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (18/12/2013)

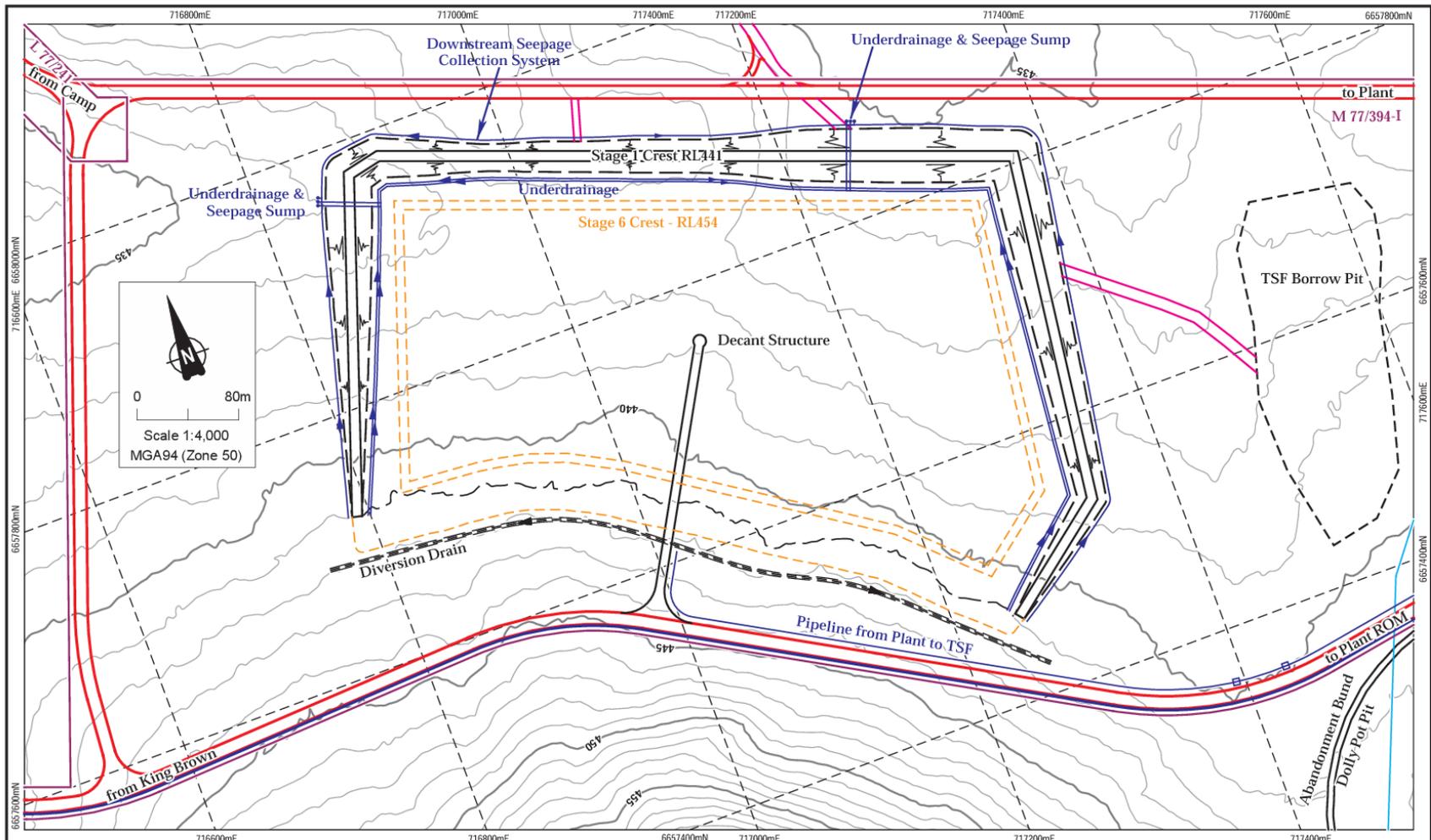
Legend:

- Proposed Roads
- Proposed Topsoil Stockpile
- Proposed Infrastructure
- Runway Emergency Safety Area

Drawn: CAD Resources	Rev: B
File No: g2103_mp_03_05	

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**Figure 2-6: Marda 1400m Airstrip
 General Arrangement**



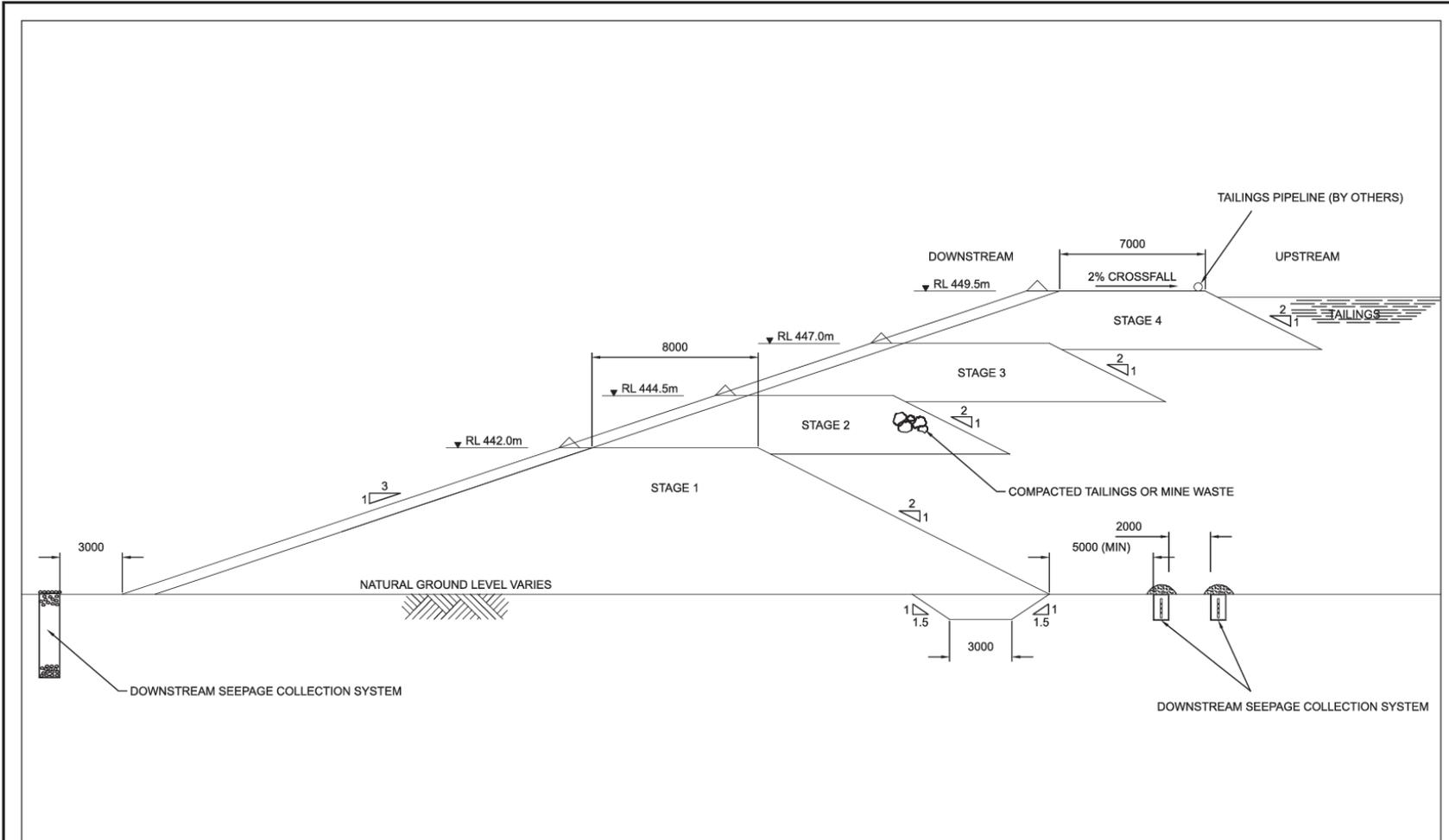
Source:
 Infrastructure - SXG (23/10/2013)
 TSF layout - Coffey (07/02/2013)

Drawn:
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 File No:
 g2103_mp_14_01

Rev:
 B

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**Figure 2-8: Tailing Storage Facility
 Plan View**



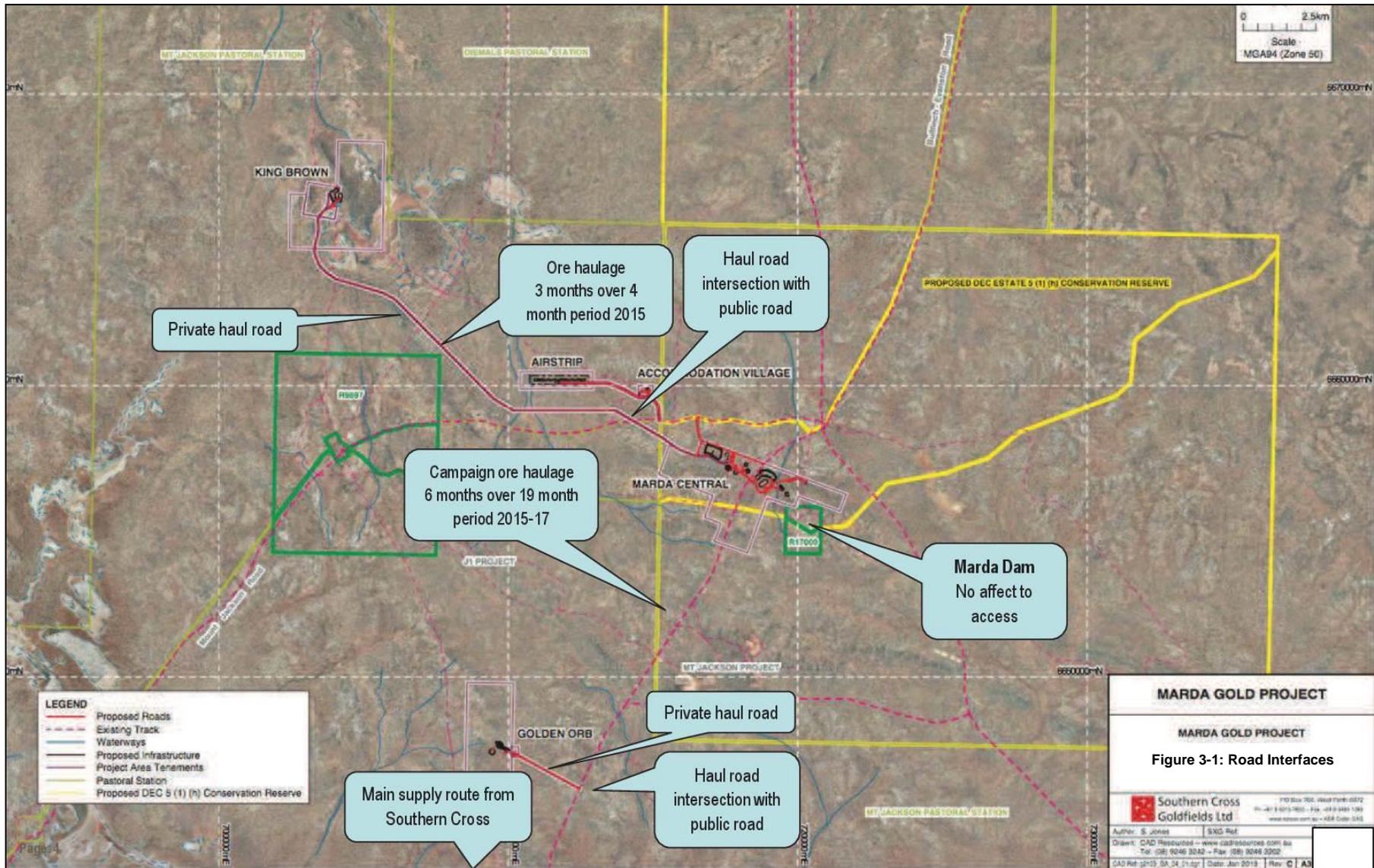
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TSF Section - Coffey (17/02/2013)

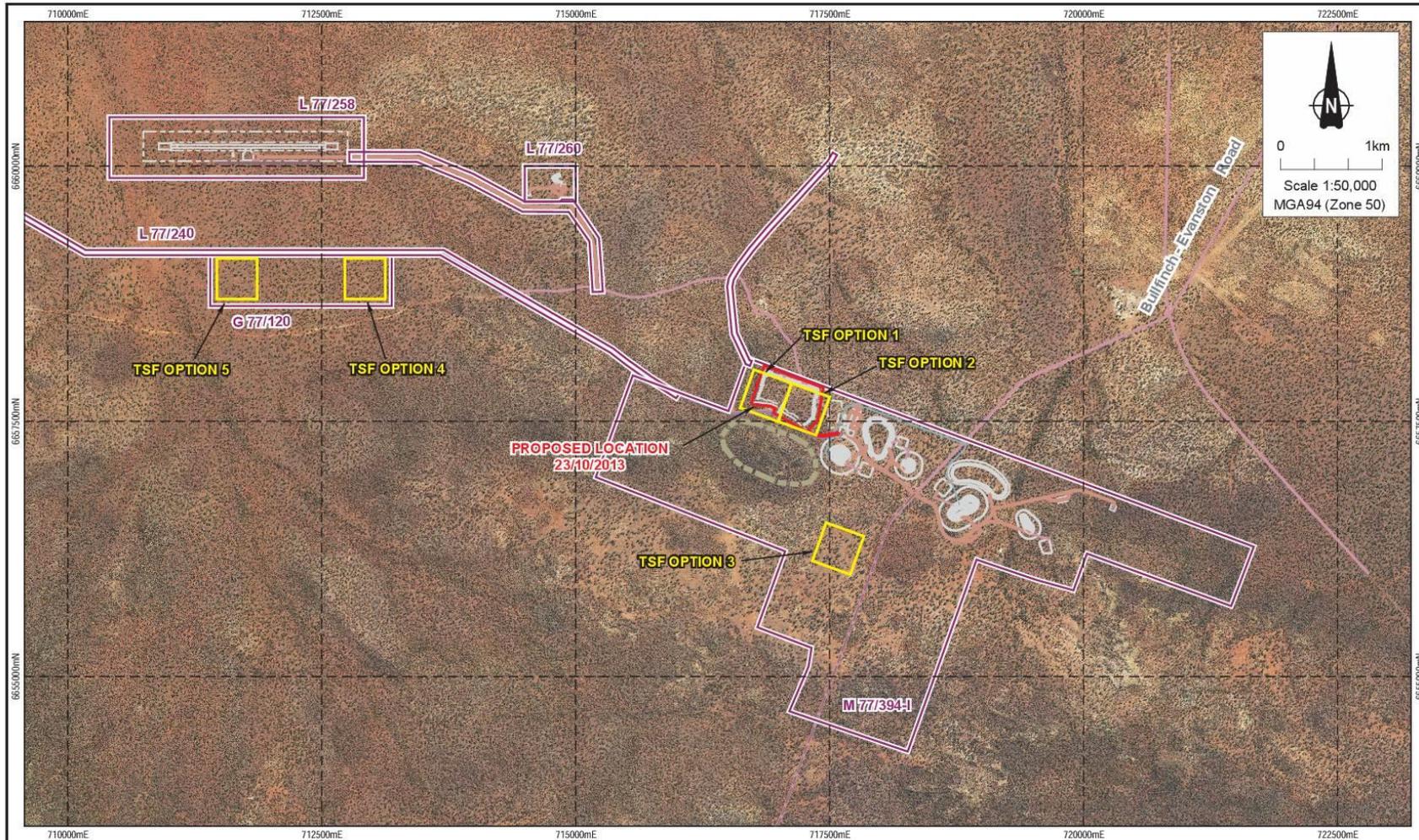
Drawn:
CAD Resources
File No:
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B

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**Figure 2-9: Tailing Storage Facility
Perimeter Embankment Typical Section**





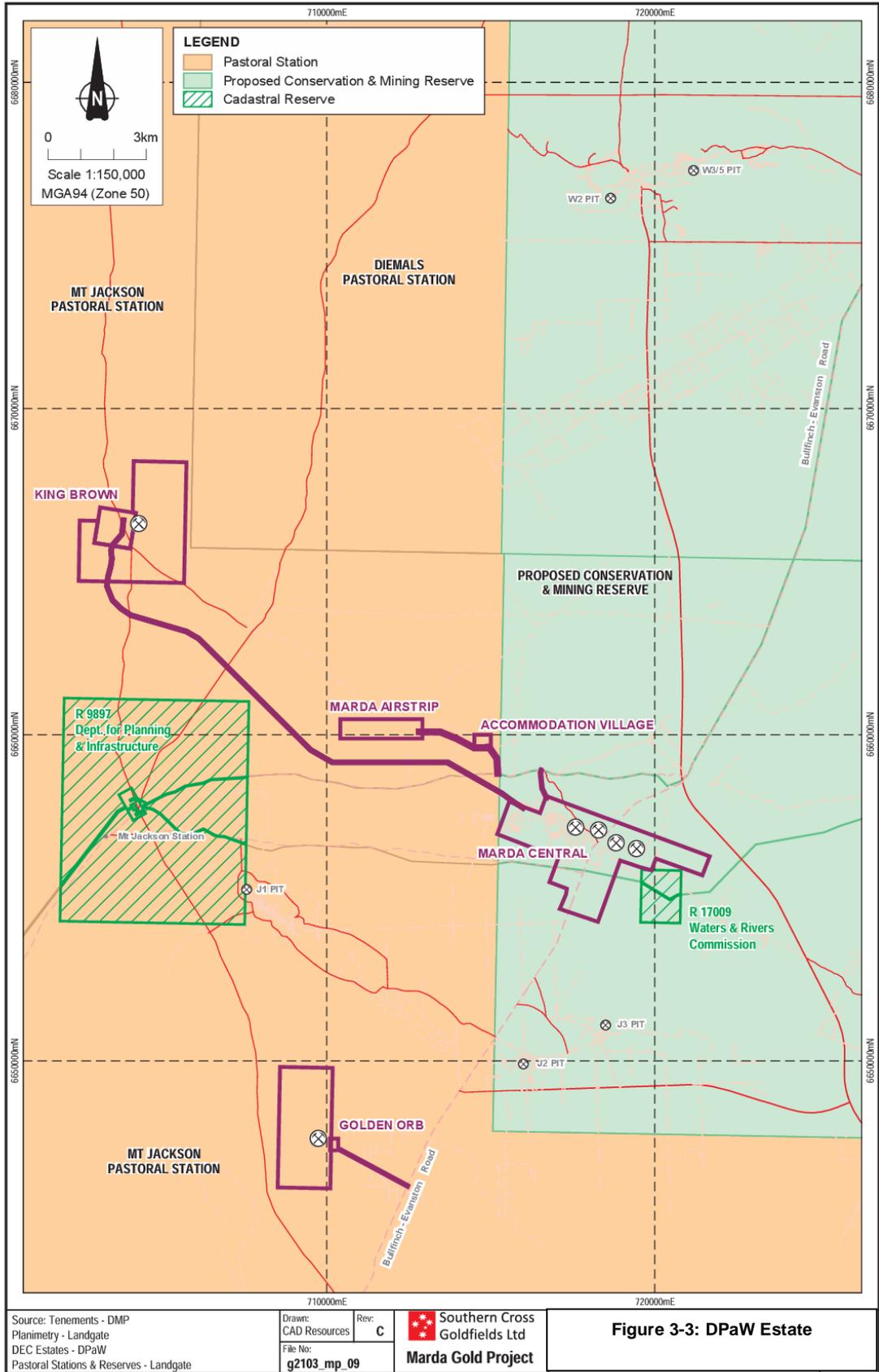
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 Infrastructure layout - SXG (10/6/2013)

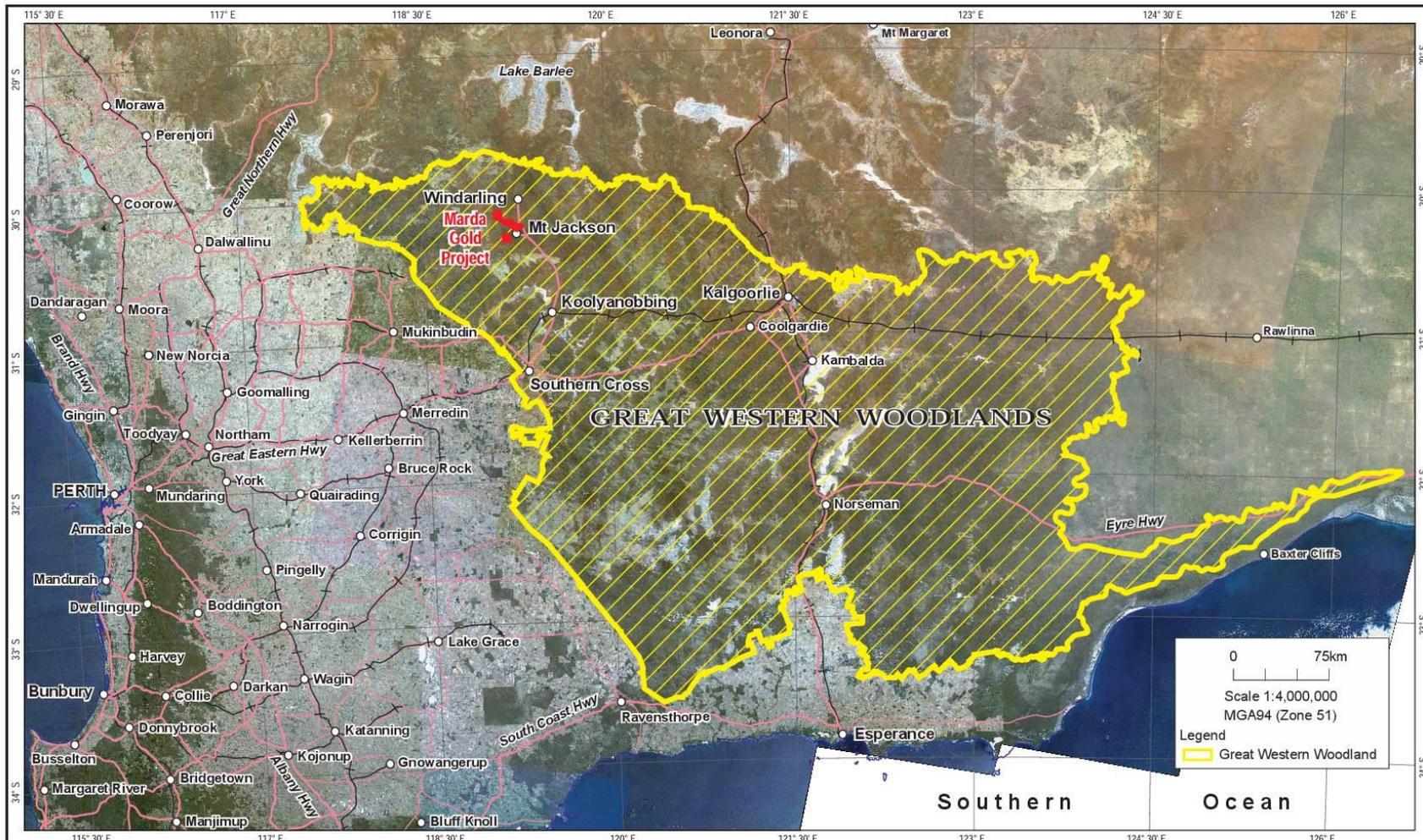
Legend: ■ TSF Options

Drawn: CAD Resources	Rev: C
File No: g2103_mp_12_01	

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**Figure 3-2: Marda Central
 TSF Location Options**





Source:
Great Western Woodlands - Gondwana Link



Drawn:
CAD Resources
File No:
g2103_mp_22

Rev:
A

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Figure 4-1: Great Western Woodlands

Code	Description
1	<i>Eucalyptus corrugata</i> or <i>Casuarina pauper</i> low open woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> , <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland over <i>Ptilotus obovatus</i> low open shrubland.
2a	<i>Eucalyptus salmonophloia</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> open shrubland over <i>Maireana trichoptera</i> , <i>Maireana georgei</i> , <i>Ptilotus obovatus</i> low open shrubland and <i>Austrostipa trichophylla</i> open tussock grassland.
2ad	<i>Eucalyptus salmonophloia</i> , <i>Eucalyptus sheathiana</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> open shrubland over <i>Maireana trichoptera</i> , <i>Maireana georgei</i> , <i>Ptilotus obovatus</i> low open shrubland and <i>Austrostipa trichophylla</i> open tussock grassland.
2e	<i>Eucalyptus corrugata</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> open shrubland over <i>Maireana trichoptera</i> , <i>Maireana georgei</i> , <i>Ptilotus obovatus</i> low open shrubland and <i>Austrostipa trichophylla</i> open tussock grassland.
2h	<i>Eucalyptus longissima</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> open shrubland over <i>Maireana trichoptera</i> , <i>Maireana georgei</i> , <i>Ptilotus obovatus</i> low open shrubland and <i>Austrostipa trichophylla</i> open tussock grassland.
3	<i>Casuarina pauper</i> low woodland over <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> tall open shrubland over <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low open shrubland.
4a	<i>Eucalyptus salmonophloia</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4ab	<i>Eucalyptus salmonophloia</i> , <i>E. salubris</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4ae	<i>Eucalyptus salmonophloia</i> , <i>E. corrugata</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4aeij	<i>Eucalyptus salmonophloia</i> , <i>E. corrugata</i> , <i>E. yilgarnensis</i> , <i>E. kochii</i> subsp. <i>amaryssia</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4b	<i>Eucalyptus salubris</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4bc	<i>Eucalyptus salubris</i> , <i>E. longicornis</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4bdie	<i>Eucalyptus salubris</i> , <i>E. sheathiana</i> , <i>E. corrugata</i> , <i>E. yilgarnensis</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
4c	<i>Eucalyptus longicornis</i> open woodland over <i>Atriplex nummularia</i> , <i>Eremophila scoparia</i> , <i>Senna artemisioides</i> subsp. <i>filifolia</i> shrubland over <i>Olearia muelleri</i> , <i>Atriplex nana</i> low open shrubland.
5a	<i>Eucalyptus salmonophloia</i> and <i>Casuarina pauper</i> or <i>C. obesa</i> low woodland over <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Atriplex nana</i> , <i>Eremophila scoparia</i> tall shrubland over <i>Atriplex nana</i> , <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low shrubland over <i>Aristida contorta</i> tussock grassland.
5b	<i>Eucalyptus salubris</i> and <i>Casuarina pauper</i> or <i>C. obesa</i> low woodland over <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Atriplex nana</i> , <i>Eremophila scoparia</i> tall shrubland over <i>Atriplex nana</i> , <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low shrubland over <i>Aristida contorta</i> tussock grassland.
5bg	<i>Eucalyptus salubris</i> , <i>E. loxophleba</i> subsp. <i>supralaevis</i> and <i>Casuarina pauper</i> or <i>C. obesa</i> low woodland over <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Atriplex nana</i> , <i>Eremophila scoparia</i> tall shrubland over <i>Atriplex nana</i> , <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low shrubland over <i>Aristida contorta</i> tussock grassland.
5d	<i>Eucalyptus sheathiana</i> and <i>Casuarina pauper</i> or <i>C. obesa</i> low woodland over <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Atriplex nana</i> , <i>Eremophila scoparia</i> tall shrubland over <i>Atriplex nana</i> , <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low shrubland over <i>Aristida contorta</i> tussock grassland.
5f	<i>Eucalyptus oleosa</i> subsp. <i>oleosa</i> and <i>Casuarina pauper</i> or <i>C. obesa</i> low woodland over <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Atriplex nana</i> , <i>Eremophila scoparia</i> tall shrubland over <i>Atriplex nana</i> , <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low shrubland over <i>Aristida contorta</i> tussock grassland.
5ikl	<i>Eucalyptus yilgarnensis</i> , <i>E. transcantionalis</i> , <i>E. ebbanoensis</i> and <i>Casuarina pauper</i> or <i>C. obesa</i> low woodland over <i>Eremophila oppositifolia</i> subsp. <i>angustifolia</i> , <i>Eremophila scoparia</i> tall shrubland over <i>Atriplex nana</i> , <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> low shrubland over <i>Aristida contorta</i> tussock grassland.
6	<i>Melaleuca atroviridis</i> , <i>Acacia ramulosa</i> subsp. <i>ramulosa</i> tall shrubland over <i>Leucopogon</i> sp. Clyde Hill (M.A. Burgman 1207), <i>Hibbertia eatoniae</i> low shrubland.
7	<i>Allocasuarina acutivalvis</i> subsp. <i>prinsepiana</i> low open woodland over <i>Acacia quadrimarginea</i> , <i>Scaevola spinescens</i> , <i>Eremophila clarkei</i> open shrubland over <i>Olearia humilis</i> low open shrubland.
8	<i>Eucalyptus kochii</i> subsp. <i>amaryssia</i> open woodland over <i>Acacia ramulosa</i> var. <i>ramulosa</i> tall shrubland over <i>Eremophila granitica</i> , <i>Atriplex nummularia</i> shrubland.
9	<i>Acacia effusifolia</i> low open woodland over <i>Maireana pyramidata</i> low sparse shrubland.
10ag	<i>Eucalyptus salmonophloia</i> , <i>E. loxophleba</i> subsp. <i>supralaevis</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland.
10e	<i>Eucalyptus corrugata</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland.
10eh	<i>Eucalyptus corrugata</i> , <i>E. longissima</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland.
10h	<i>Eucalyptus longissima</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) tall open shrubland.
11	<i>Eucalyptus corrugata</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831), <i>Eremophila oldfieldii</i> subsp. <i>angustifolia</i> open shrubland over <i>Ptilotus obovatus</i> , <i>Olearia muelleri</i> , <i>Acacia erinacea</i> low open shrubland.
12	<i>Eucalyptus corrugata</i> sparse low woodland over <i>Eremophila granitica</i> , <i>Acacia burkittii</i> over <i>Philothea brucei</i> subsp. <i>brucei</i> open shrubland.
13	<i>Allocasuarina dielsiana</i> sparse woodland over <i>Acacia ramulosa</i> subsp. <i>ramulosa</i> , <i>Allocasuarina tessellata</i> tall open shrubland over <i>Prostanthera althoferi</i> subsp. <i>althoferi</i> , <i>Eremophila ?decipiens</i> subsp. <i>decipiens</i> and <i>Philothea brucei</i> subsp. <i>brucei</i> open shrubland.
14	<i>Eucalyptus salubris</i> or <i>Casuarina pauper</i> open woodland over <i>Tecticornia</i> sp., <i>Cratystylis subspinescens</i> low open shrubland.
15	<i>Eucalyptus salubris</i> open woodland over <i>Atriplex nummularia</i> low open shrubland over <i>Erymophyllum ramosum</i> subsp. <i>ramosum</i> , <i>Waitzia acuminata</i> var. <i>acuminata</i> herbland.
16	<i>Casuarina pauper</i> low woodland over <i>Scaevola spinescens</i> , <i>Cratystylis subspinescens</i> shrubland over <i>Hyalosperma glutinosum</i> subsp. <i>glutinosum</i> herbland.
17	<i>Eucalyptus ewartiana</i> low open woodland over <i>Acacia</i> sp. narrow phyllode (B.R. Maslin 7831) sparse shrubland over <i>Ptilotus obovatus</i> sparse low shrubland.
18	<i>Allocasuarina dielsiana</i> low open woodland over <i>Acacia acuminata</i> tall shrubland over <i>Austrostipa trichophylla</i> , <i>Aristida contorta</i> , <i>Austrostipa elegantissima</i> tussock grassland and mixed species herbland.
19	<i>Casuarina pauper</i> , <i>Eucalyptus corrugata</i> low open woodland over <i>Templetonia ceracea</i> , <i>Acacia acanthoclada</i> open shrubland.
20	<i>Acacia ramulosa</i> , <i>Acacia tetragonophylla</i> tall open shrubland over <i>Mirbelia microphylla</i> , <i>Sida</i> sp. dark green fruits (S. van Leeuwen 2260) low open shrubland over <i>Aristida contorta</i> , <i>Eriachne pulchella</i> closed tussock grassland and mixed herbland.

Source:
Rapallo (27/06/2013)

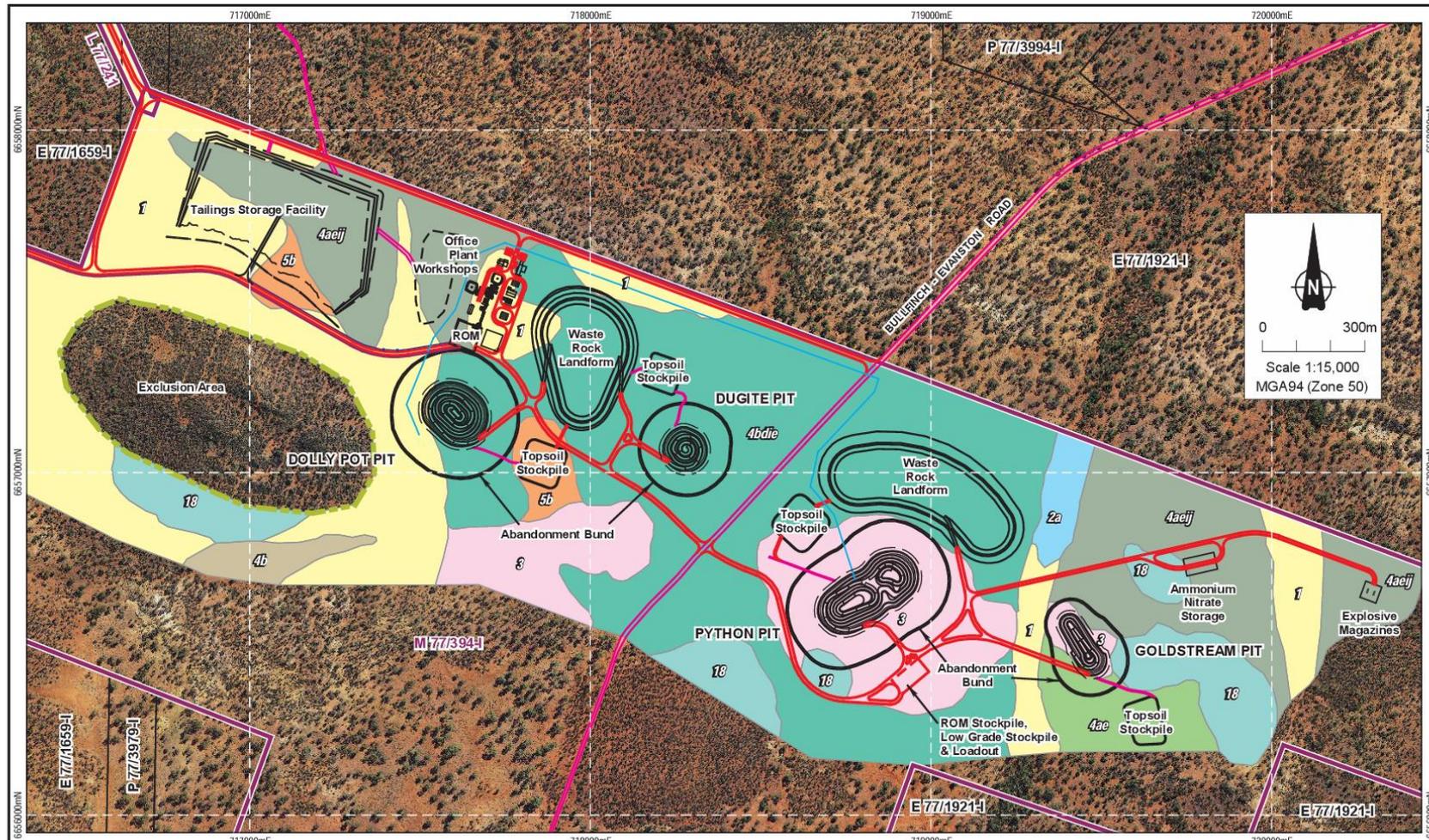
Drawn:
CAD Resources
File No:
g2103_mp_07_06

Rev:

B

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Figure 4-2: Vegetation Map Legend



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

Vegetation - Rapallo (19/6/2013)

Legend:

- Proposed Roads
- Existing Track
- Proposed Bore Water Pipeline
- Proposed Infrastructure

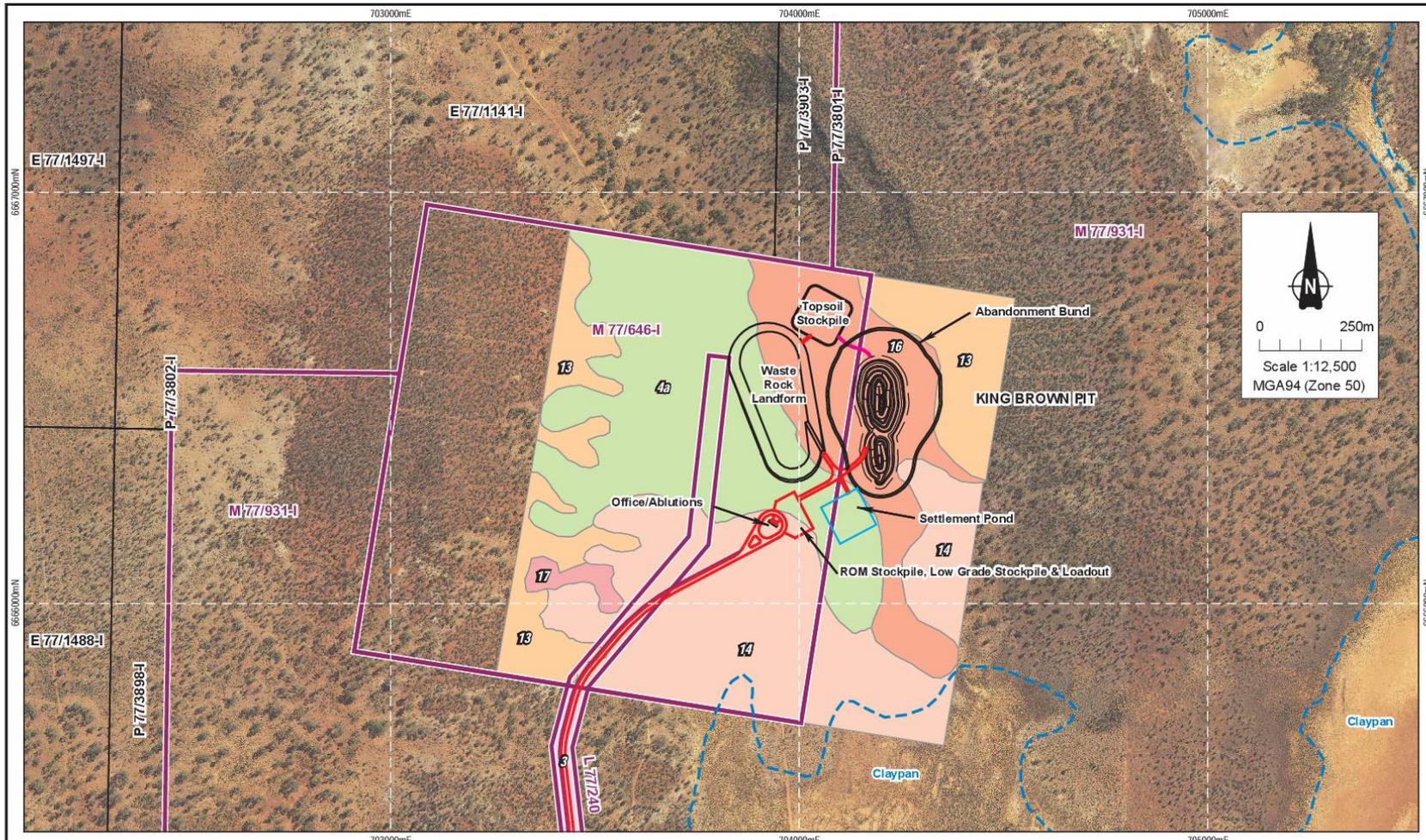
Drawn:
 CAD Resources

Rev:
B

File No:
g2103_mp_07_02

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Figure 4-3: Marda Central Vegetation Map



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011) Vegetation - Rapallo (19/6/2013)
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

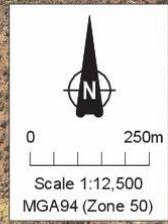
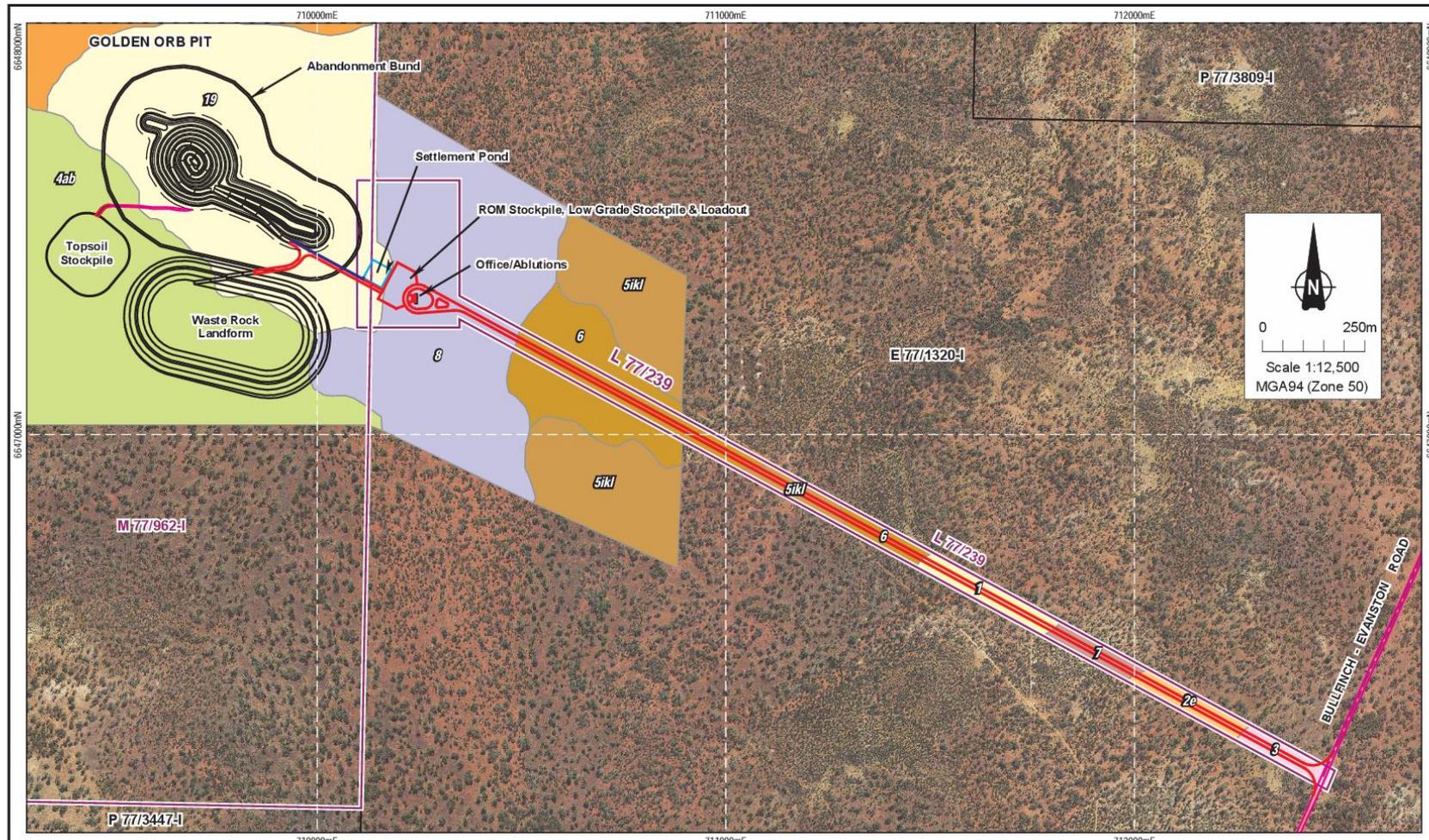
Legend:

- Proposed Roads
- Existing Track
- Proposed Settlement Pond
- Proposed Infrastructure

Drawn:
 CAD Resources
 File No:
 g2103_mp_07_03

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Figure 4-4: King Brown Vegetation Map



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

Vegetation - Rapallo (19/6/2013)

Legend:

- Proposed Roads
- Existing Track
- Proposed Settlement Pond
- Proposed Infrastructure

Drawn:
 CAD Resources

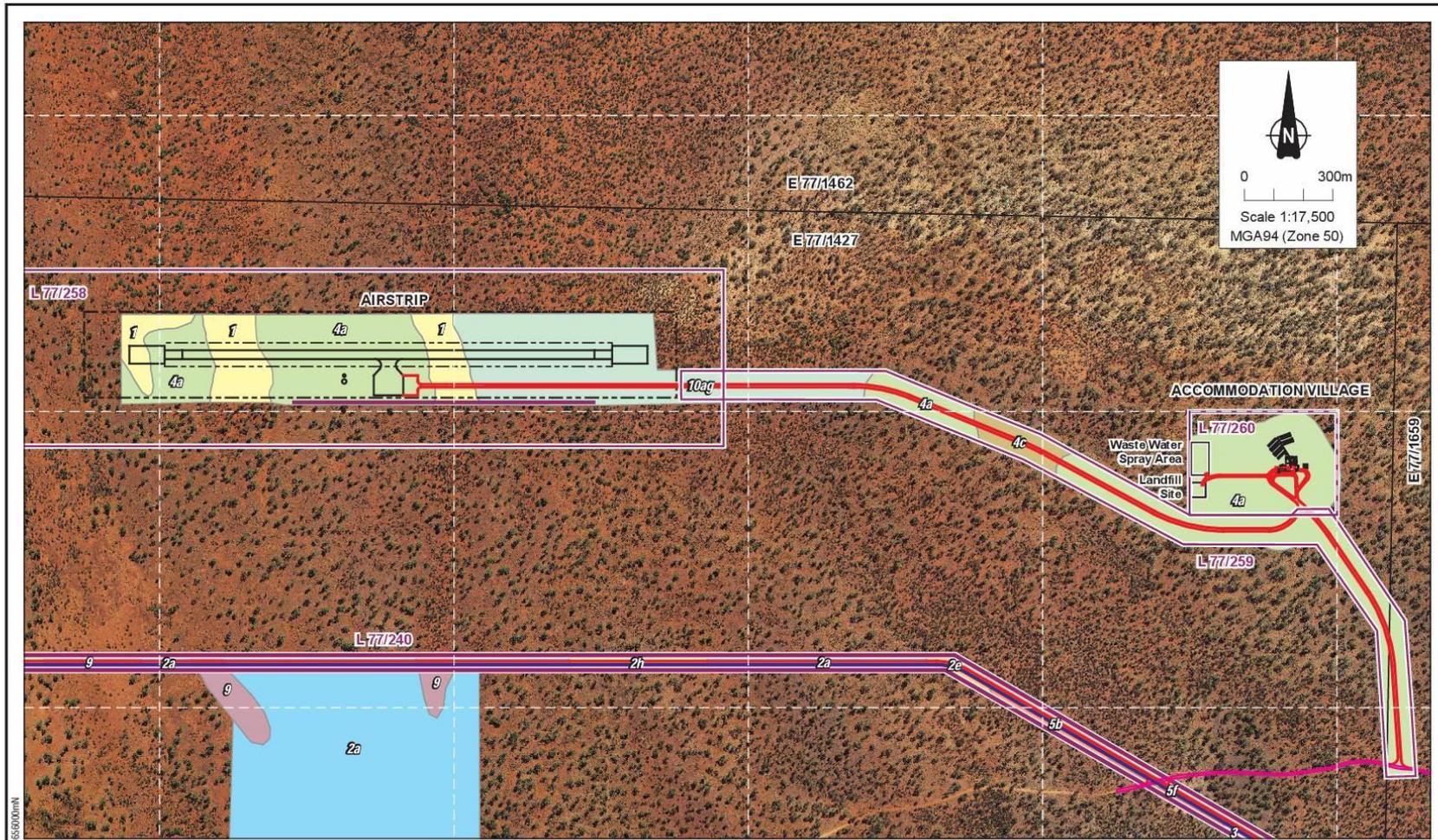
Rev:
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File No:
 g2103_mp_07_04

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**Figure 4-5: Golden Orb
 Vegetation Map**



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

Vegetation - Rapallo (19/6/2013)
 - Bioscope (16/12/2013)

- Legend:
- Proposed Roads
 - Existing Track
 - Proposed Bore Water Pipeline
 - Proposed Infrastructure

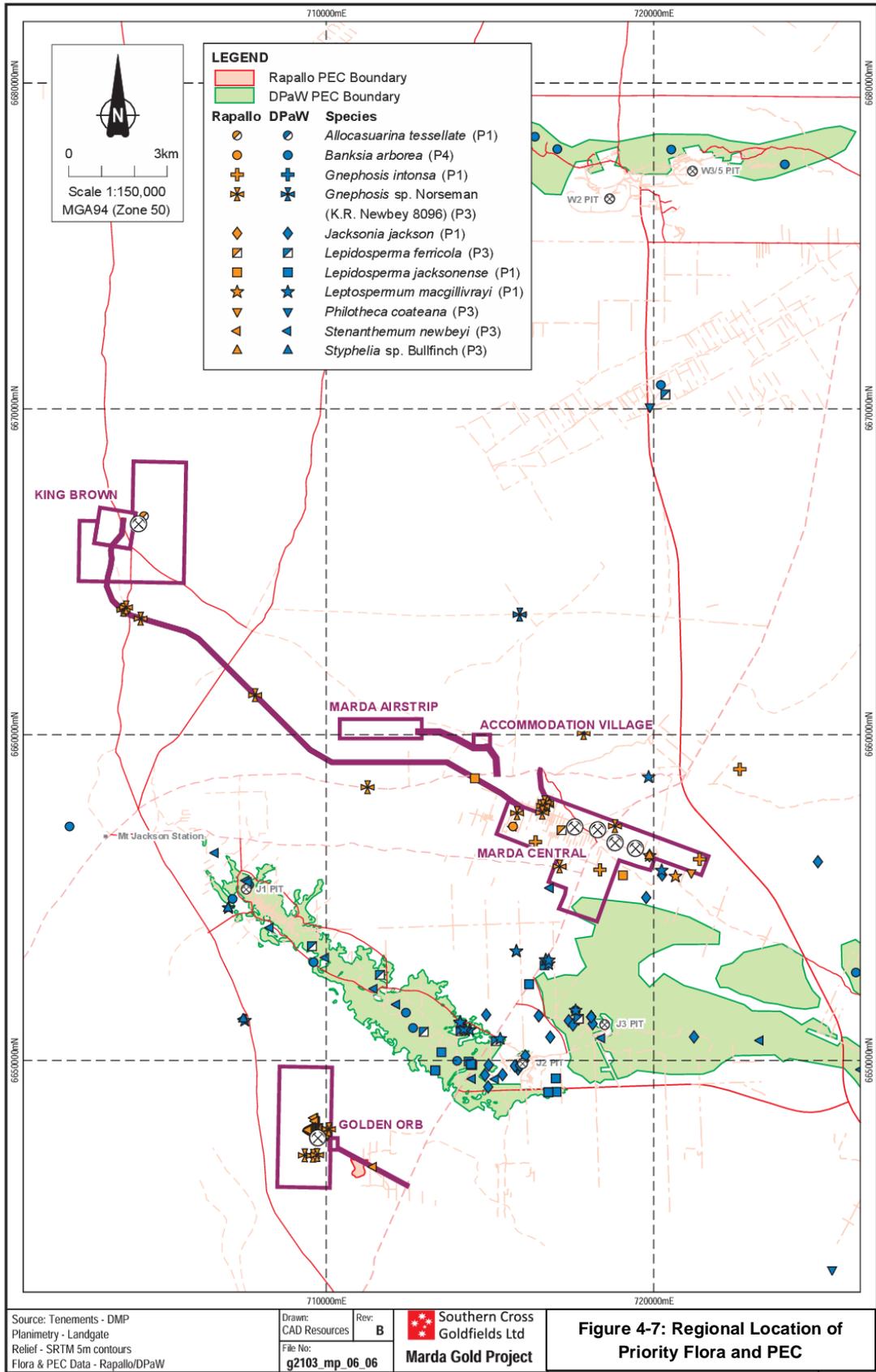
Drawn:
 CAD Resources

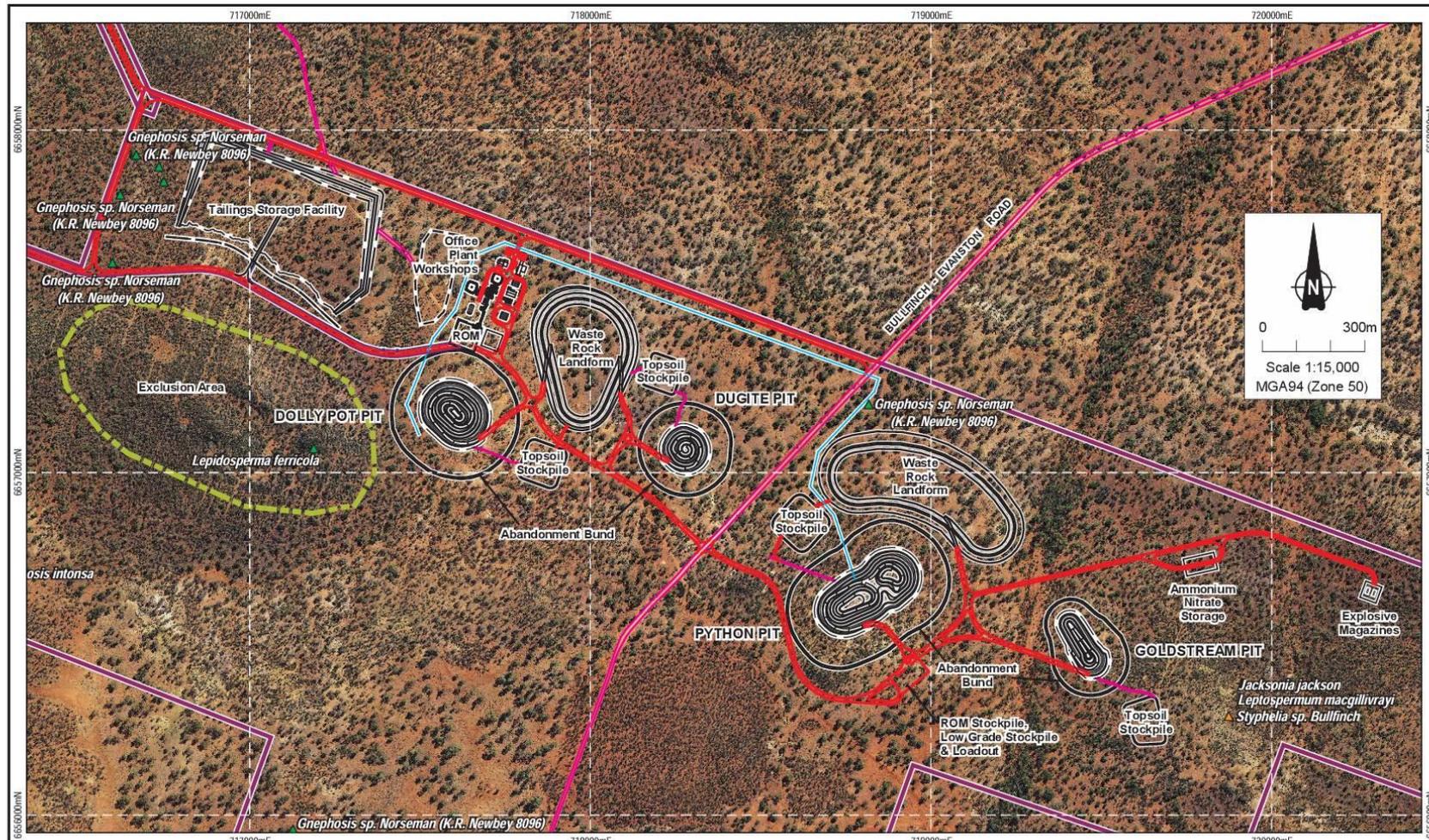
Rev:
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File No:
 g2103_mp_07_05

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Figure 4-6: Airstrip and Accommodation Village Vegetation





Source:
 Aerial photography - Fugro Spatial Solutions (5/2011)
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

Flora - Rapallo

- Legend:
- Proposed Roads
 - Existing Track
 - Proposed Bore Water Pipeline
 - Proposed Infrastructure

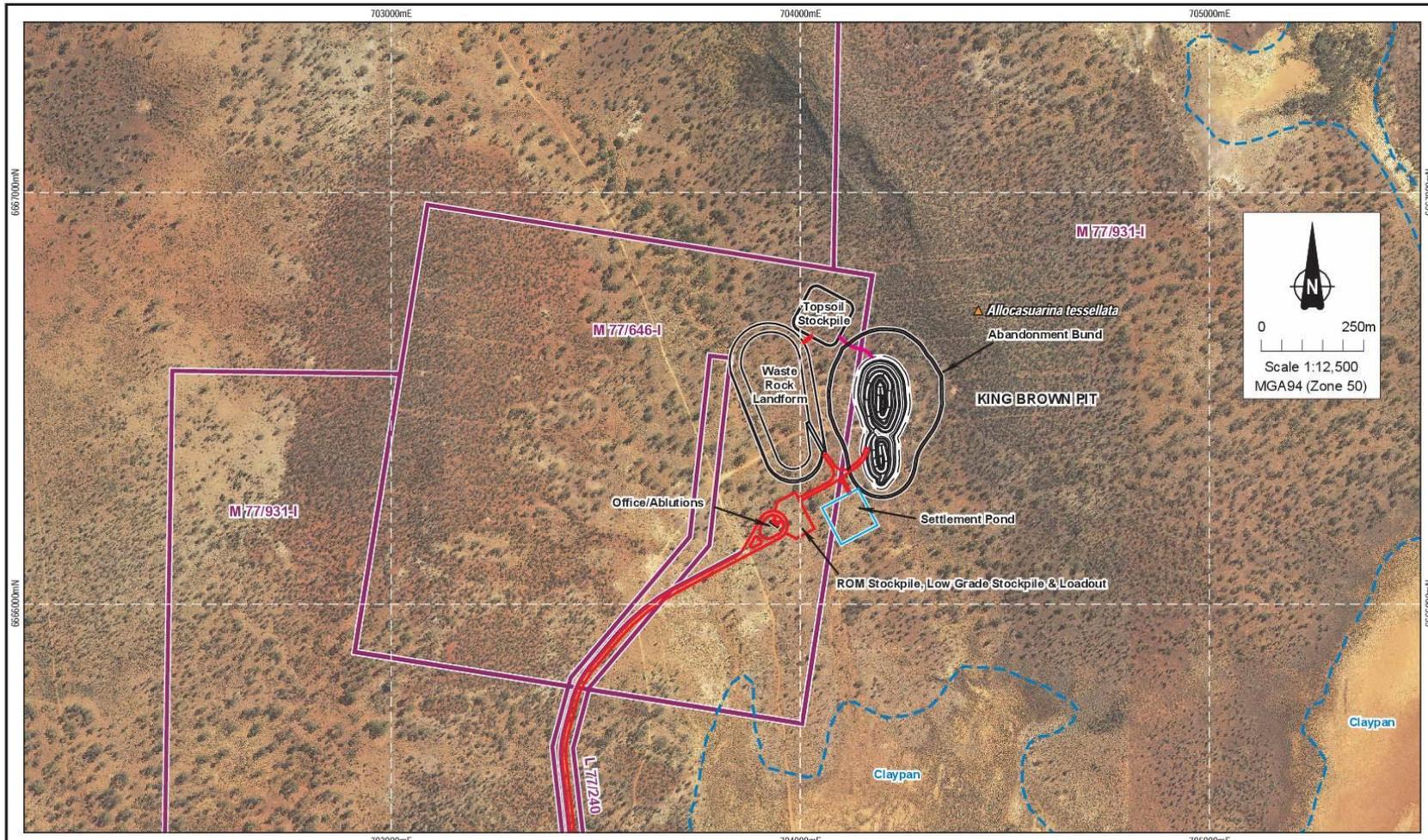
Priority Threatened	Rapallo
1	▲
2	▲
3	▲
4	▲

Drawn:
 CAD Resources
 File No:
 g2103_mp_06_02

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Figure 4-8: Marda Central Priority Flora Locations



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011) Flora - Rapallo
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

Legend:

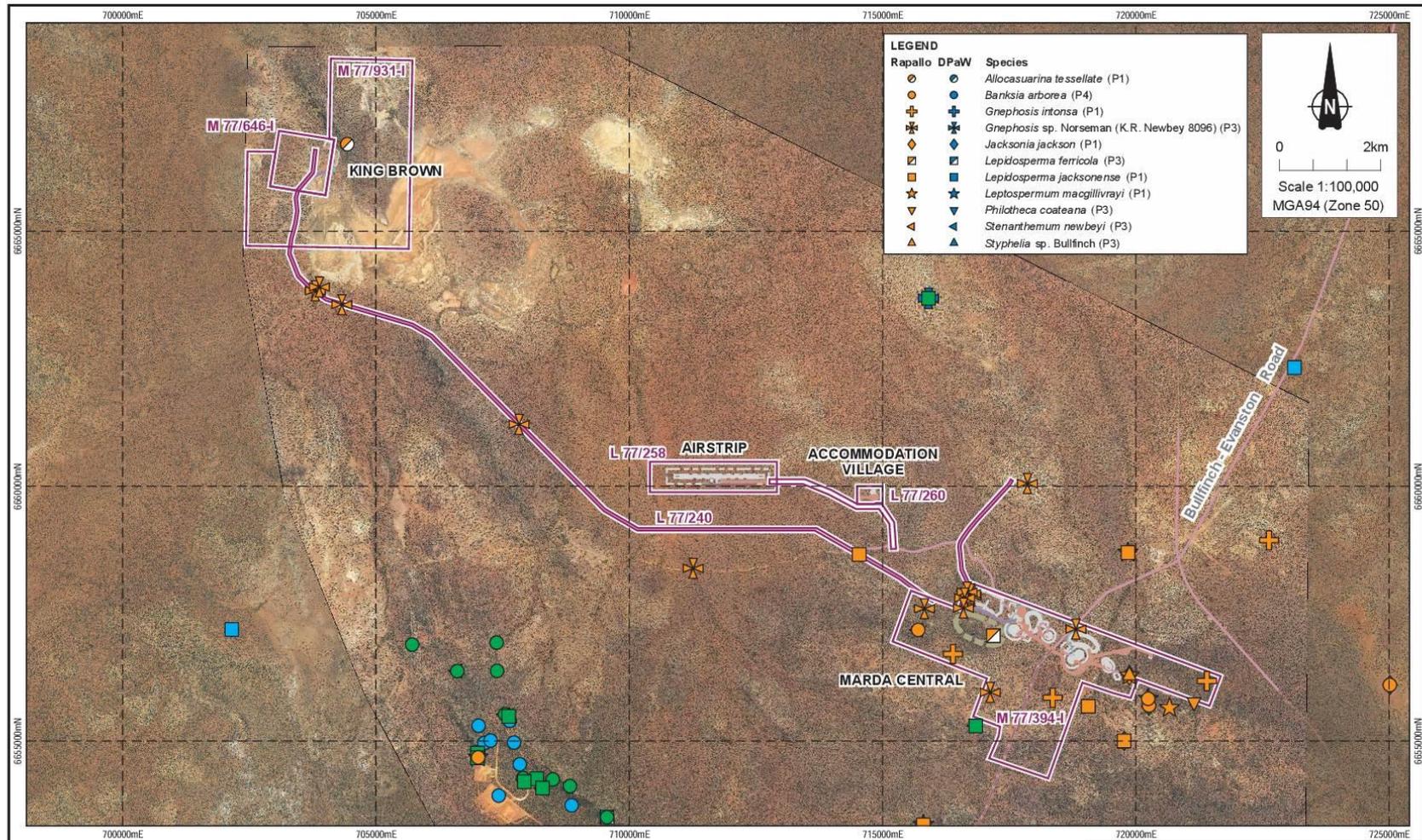
- Proposed Roads
- Existing Track
- Proposed Settlement Pond
- Proposed Infrastructure

Priority Threatened	Rapallo
1	▲
2	▲
3	▲
4	▲

Drawn: CAD Resources
 File No: g2103_mp_06_03

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Figure 4-9: King Brown Priority Flora Locations



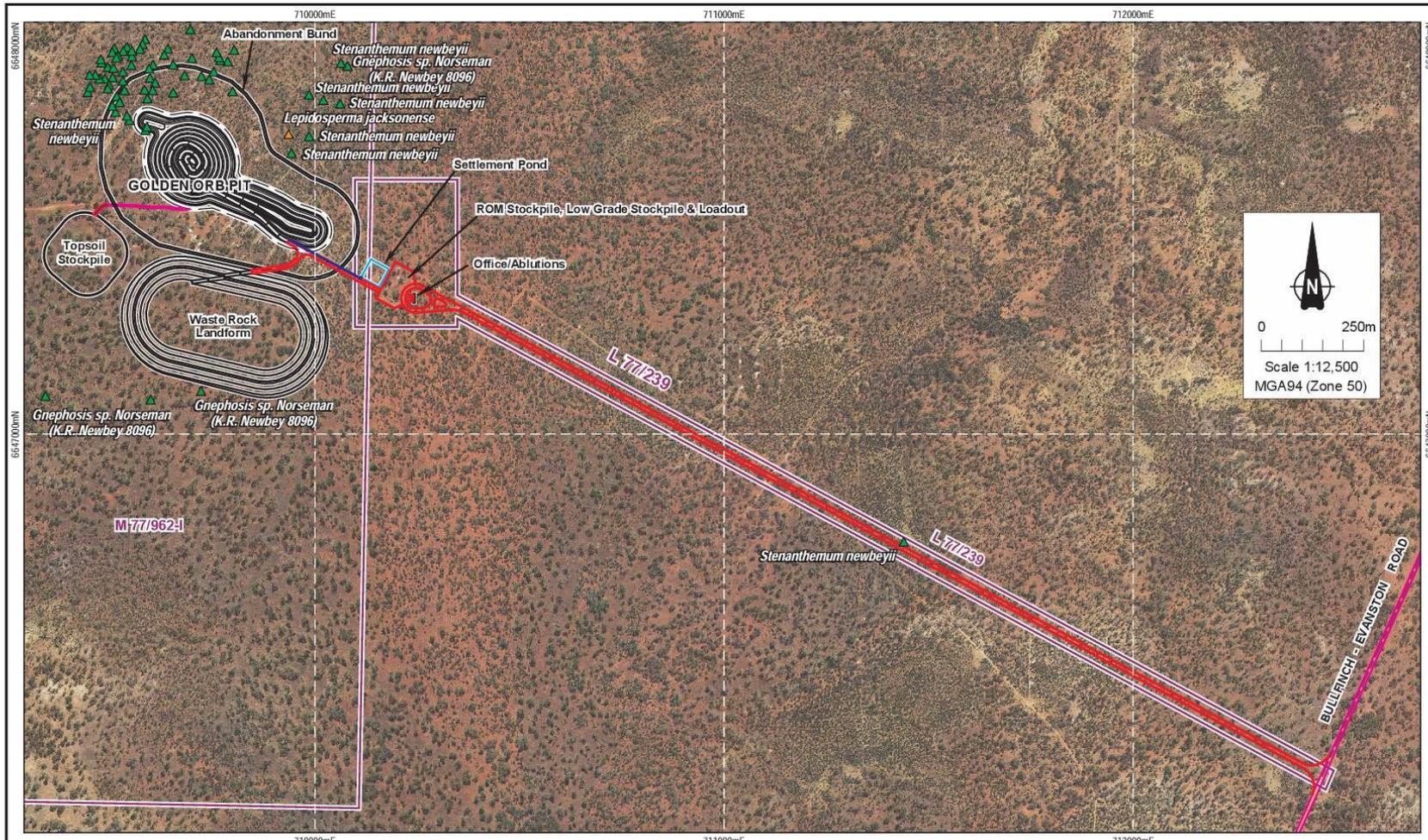
Source: Tenements - DMP
Aerial photography - Fugro Spatial Solutions (5/2011)
Flora - Rapallo / DPaW
Infrastructure layout - SXG (10/6/2013)

Drawn:
CAD Resources
File No:
g2103_mp_06_07

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**Figure 4-10: King Brown Haul Road
Priority Flora Locations**



Source:
 Aerial photography - Fugro Spatial Solutions (5/2011) Flora - Rapallo
 Tenements - DMP
 Infrastructure layout - SXG (10/6/2013)

Legend:

- Proposed Roads
- Existing Track
- Proposed Settlement Pond
- Proposed Infrastructure

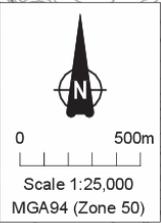
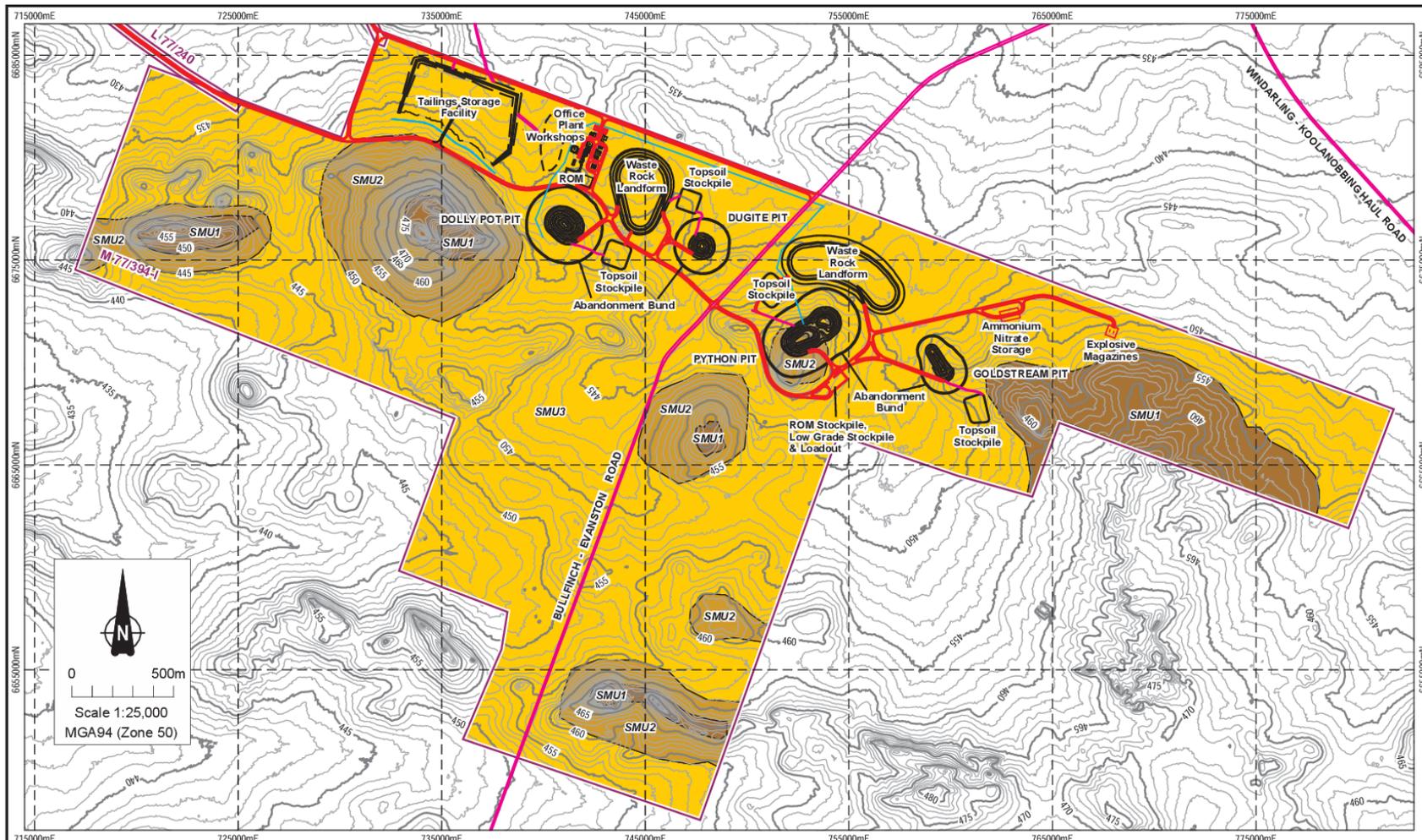
Priority Threatened	Rapallo
1	▲
2	▲
3	▲
4	▲

Drawn:
 CAD Resources
 File No:
 g2103_mp_06_04

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**Figure 4-11: Golden Orb
 Priority Flora Locations**



Source:
 Relief - Fugro Spatial Services - 1m contours
 Pits - Rock Team, Plant - Como Engineers
 Soils - Soilwater Consultants (version C.2)

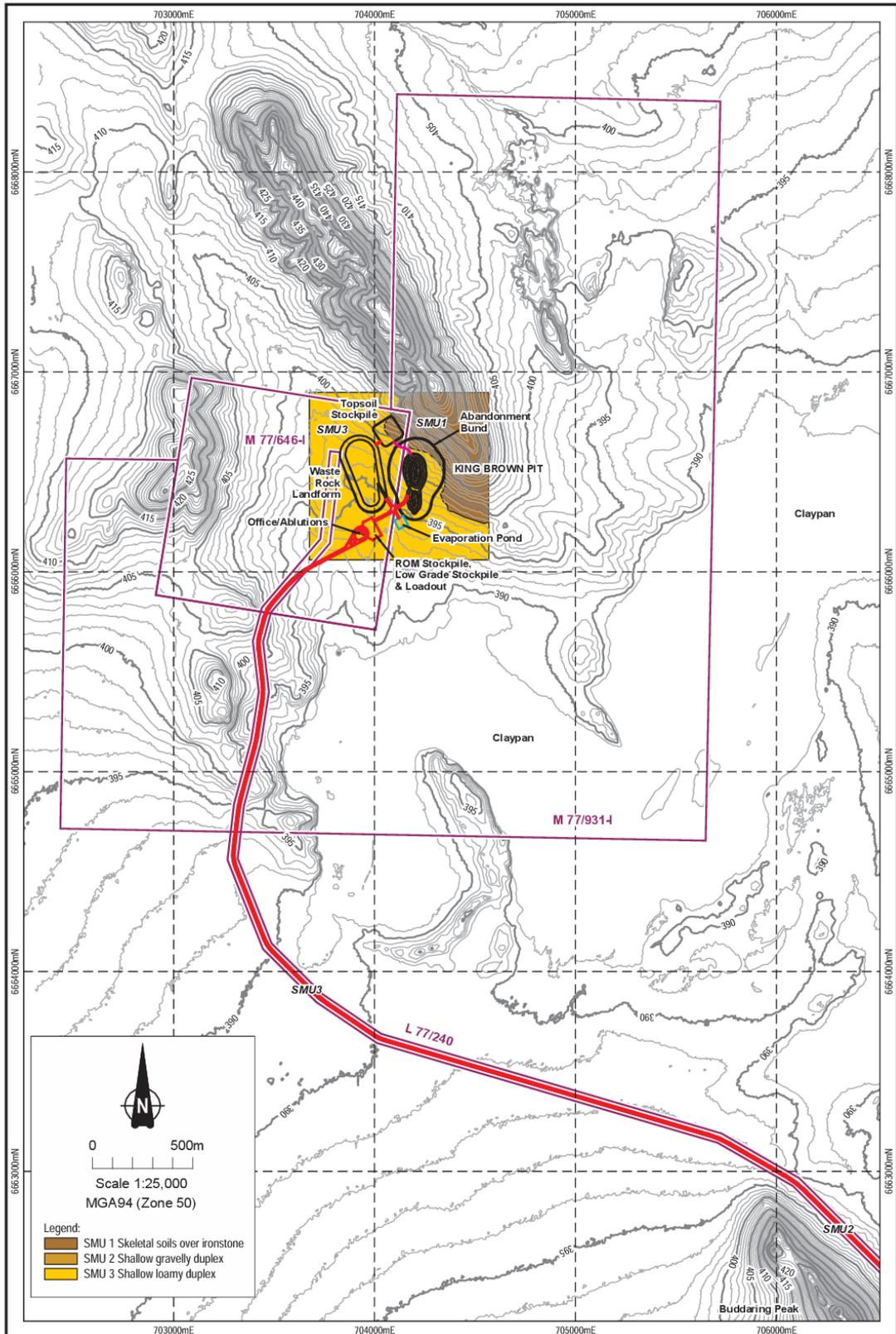
Legend:
 SMU 1 Skeletal soils over ironstone
 SMU 2 Shallow gravelly duplex
 SMU 3 Shallow loamy duplex

Drawn:
 CAD Resources
 File No:
 g2103_mp_17_02

Rev:
 C

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Figure 4-12: Marda Central Soils

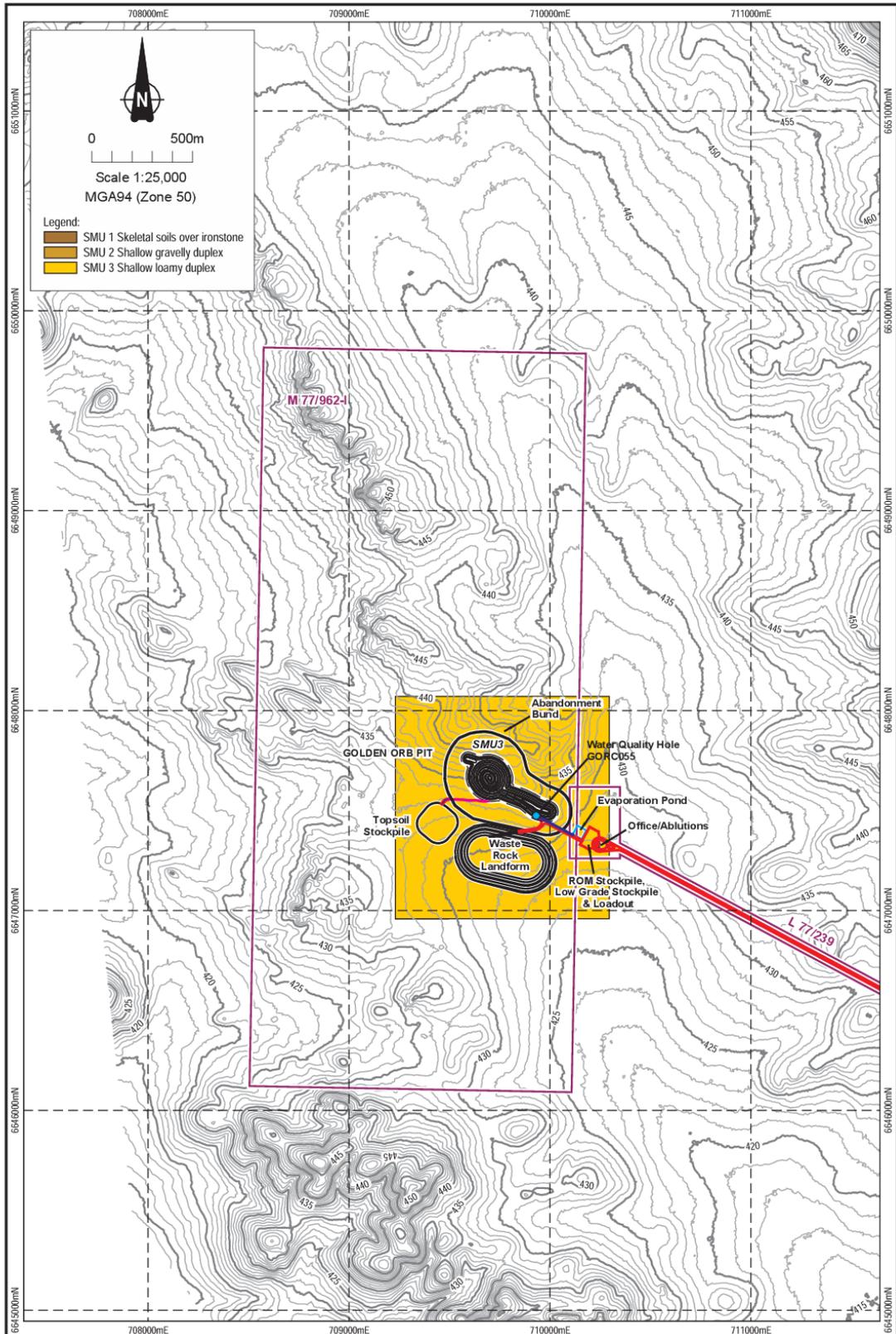


Source:
 Relief - Fugro Spatial Services - 1m contours
 Pits - Rock Team, Plant - Como Engineers
 Soils - Soilwater Consultants (version C.2)

Drawn: CAD Resources
 Rev: C
 File No: g2103_mp_17_03

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Figure 4-13: King Brown Soils

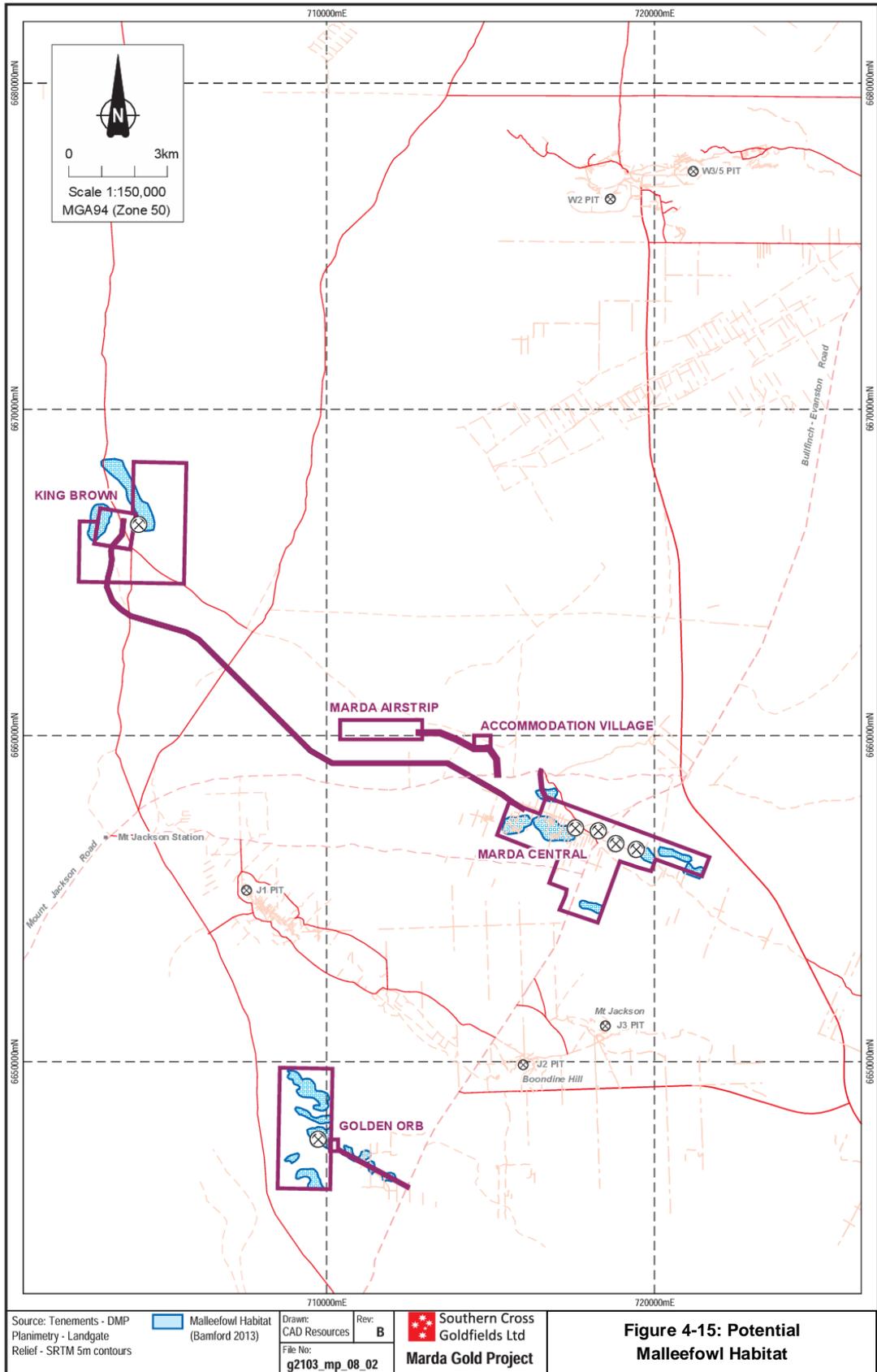


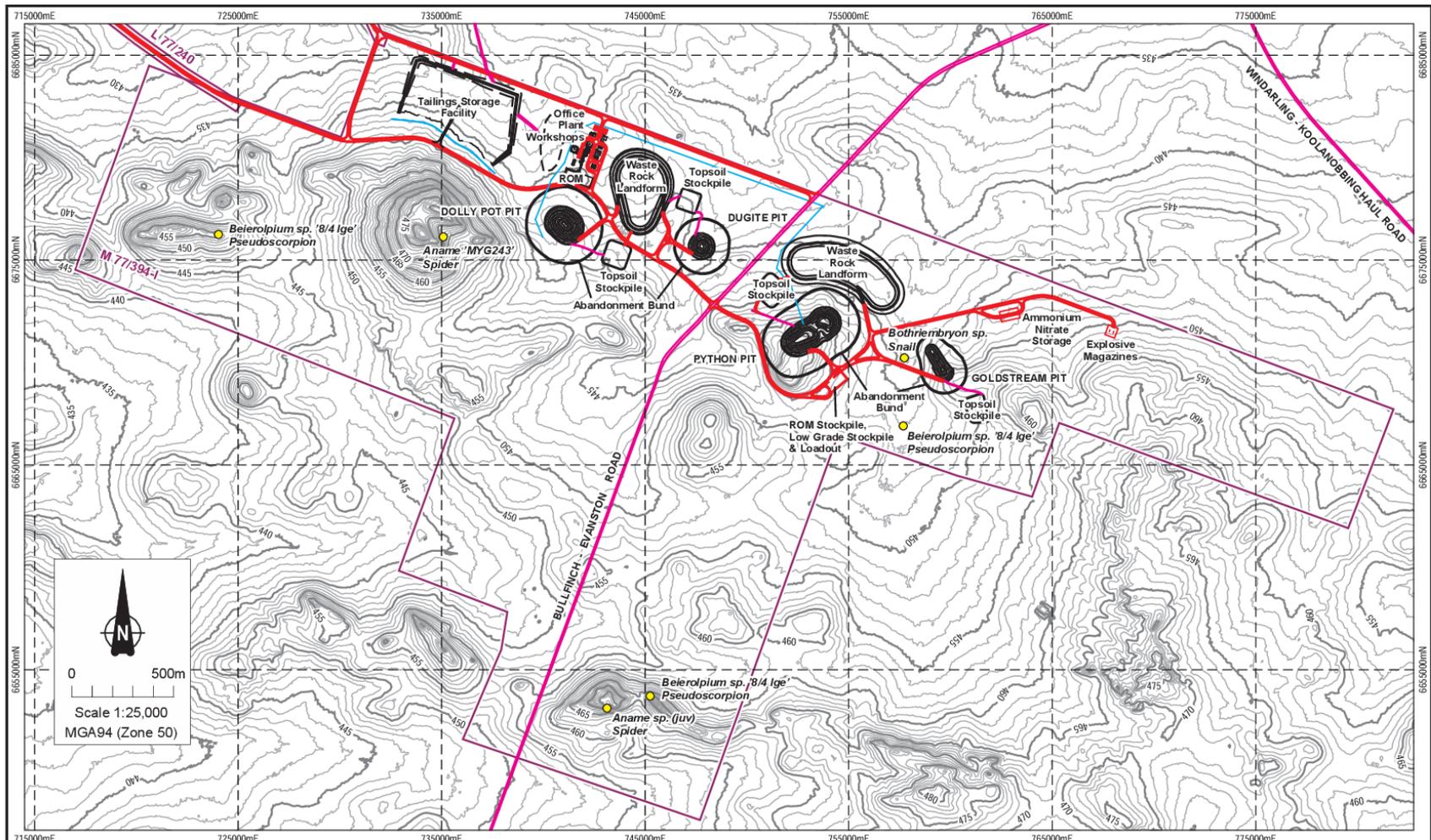
Source:
 Relief - Fugro Spatial Services - 1m contours
 Pits - Rock Team, Plant - Como Engineers
 Soils - Soilwater Consultants (version C.2)

Drawn: CAD Resources	Rev: C
File No: g2103_mp_17_04	

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Figure 4-14: Golden Orb Soils



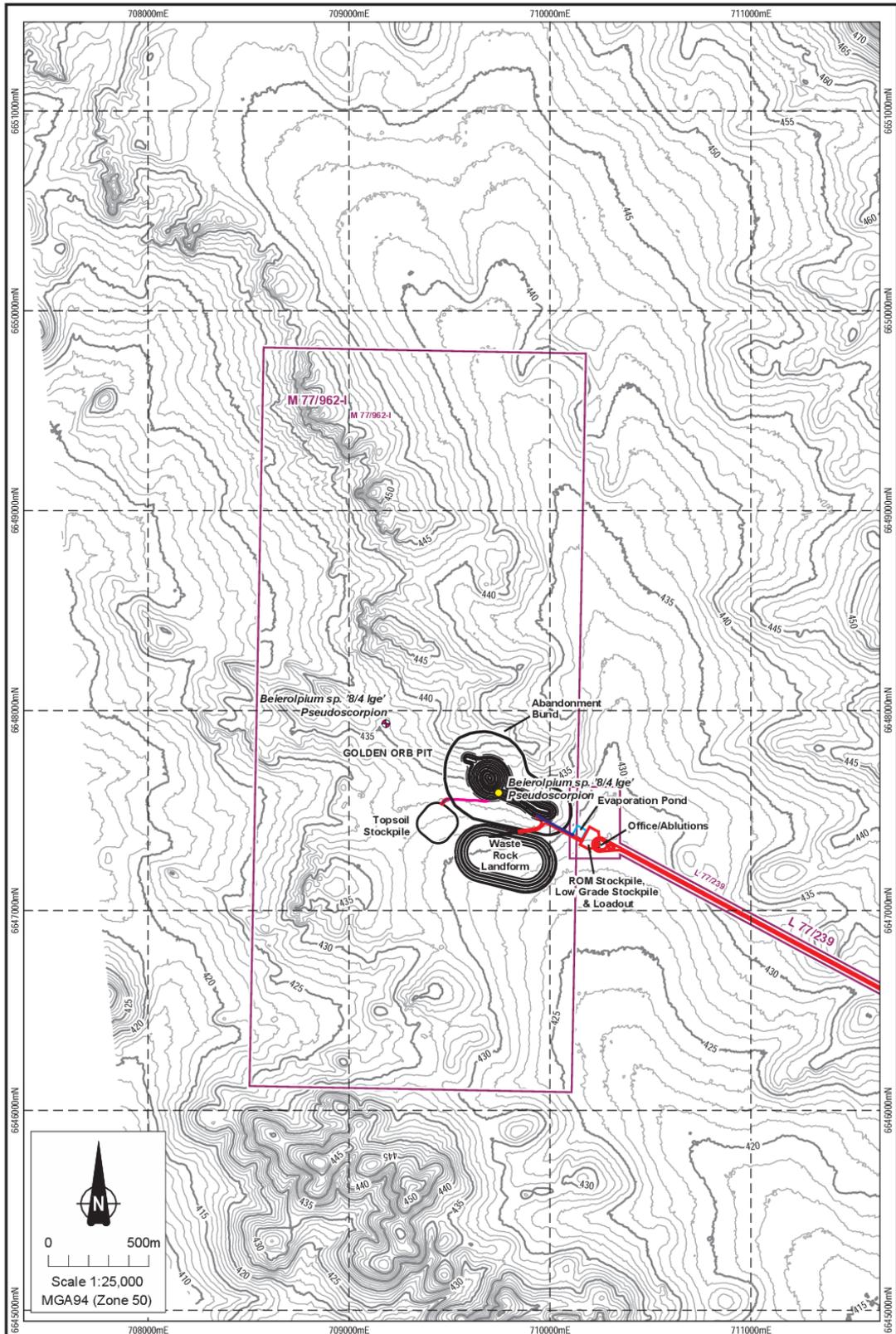


Source:
 Relief - Fugro Spatial Services - 1m contours
 Pits - Rockteam Plant - Como Engineers
 SRE - Rapallo (05/12/2013)

Drawn: CAD Resources	Rev: B
File No: g2103_mp_18_01	

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**Figure 4-16: Marda Central
 Location of Potential SRE Species**

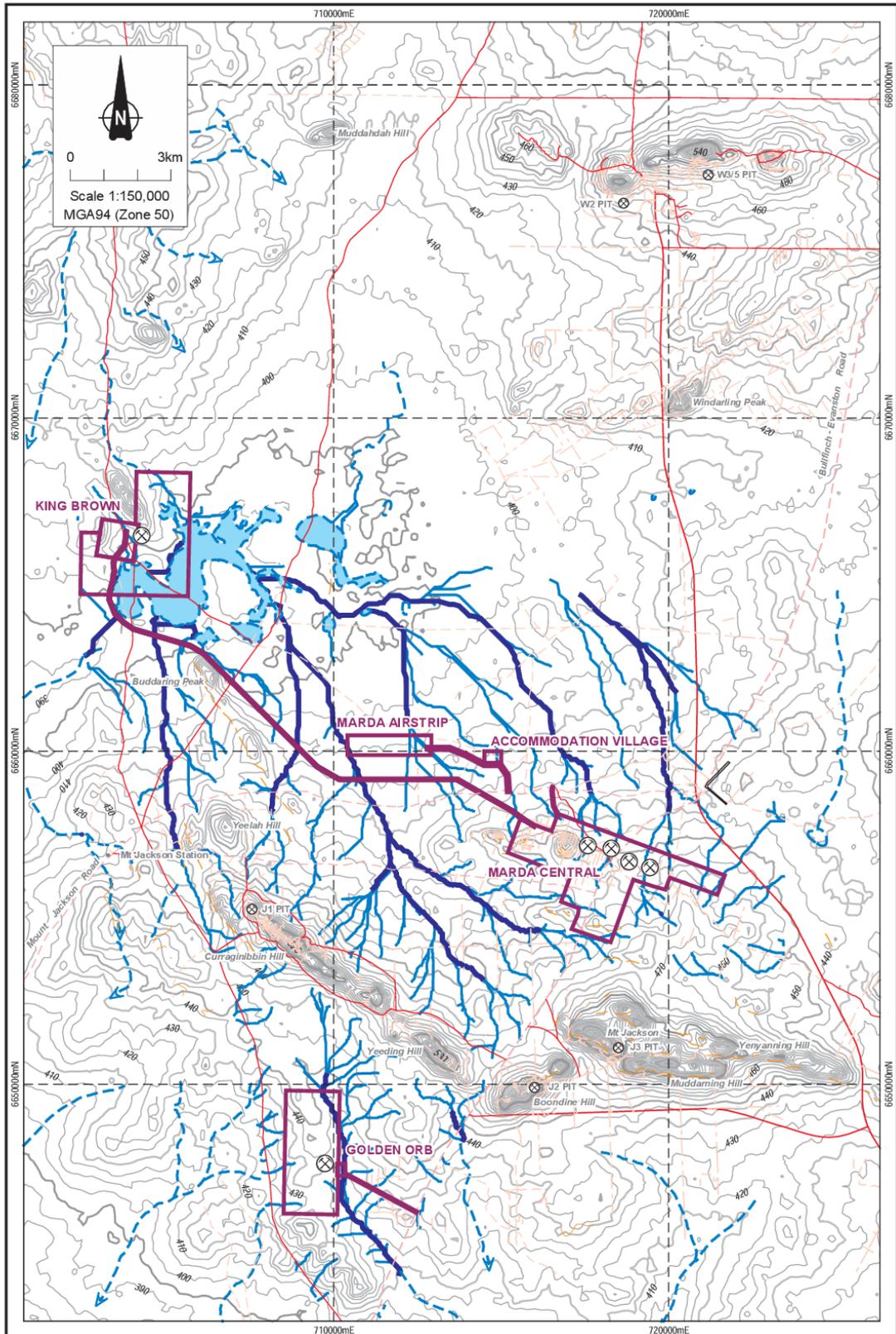


Source:
 Planimetry - Landgate Pits - Rockteam
 Relief - Fugro Spatial Services - 1m contours
 SRE - Rapallo (05/12/2013)

Drawn: CAD Resources
 Rev: B
 File No: g2103_mp_18_02

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**Figure 4-17: Golden Orb
 Location of Potential SRE Species**

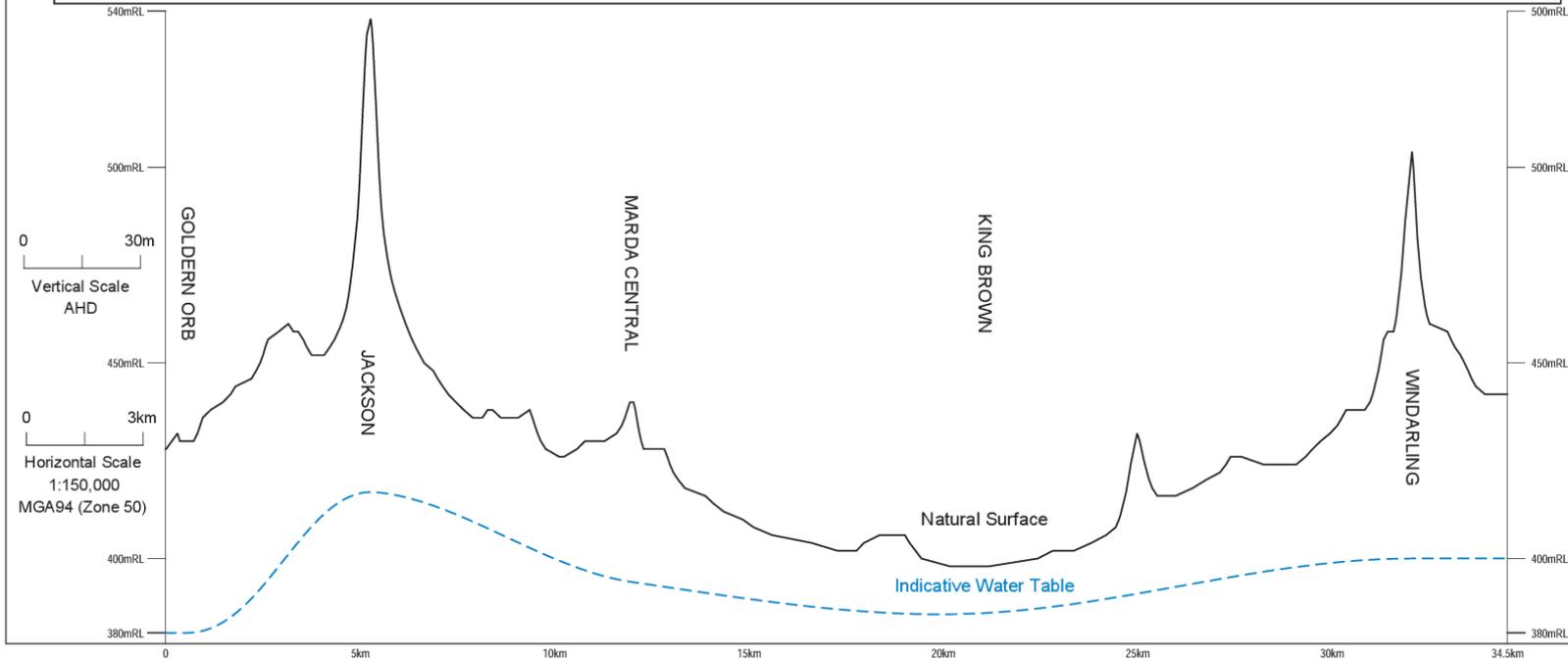
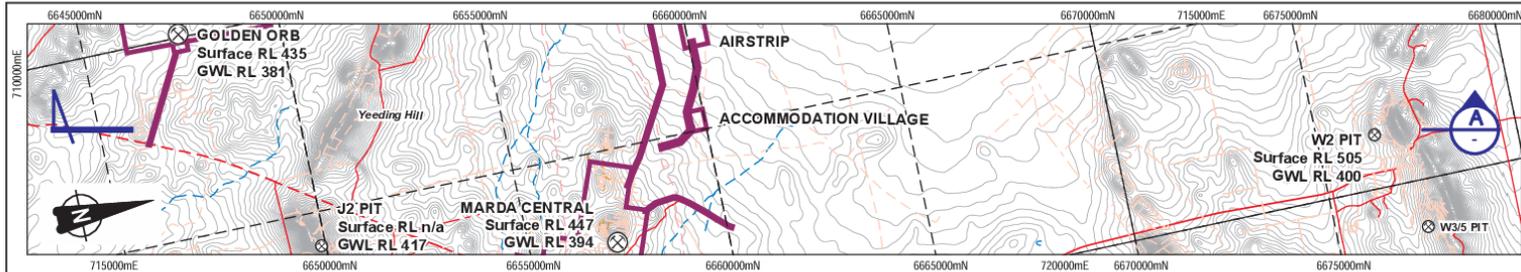


Source: Tenements - DMP
 Planimetry - Landgate
 Relief - SRTM 5m contours

Drawn: CAD Resources	Rev: B
File No: g2103_mp_16_01	

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Figure 4-18: Surface Hydrology



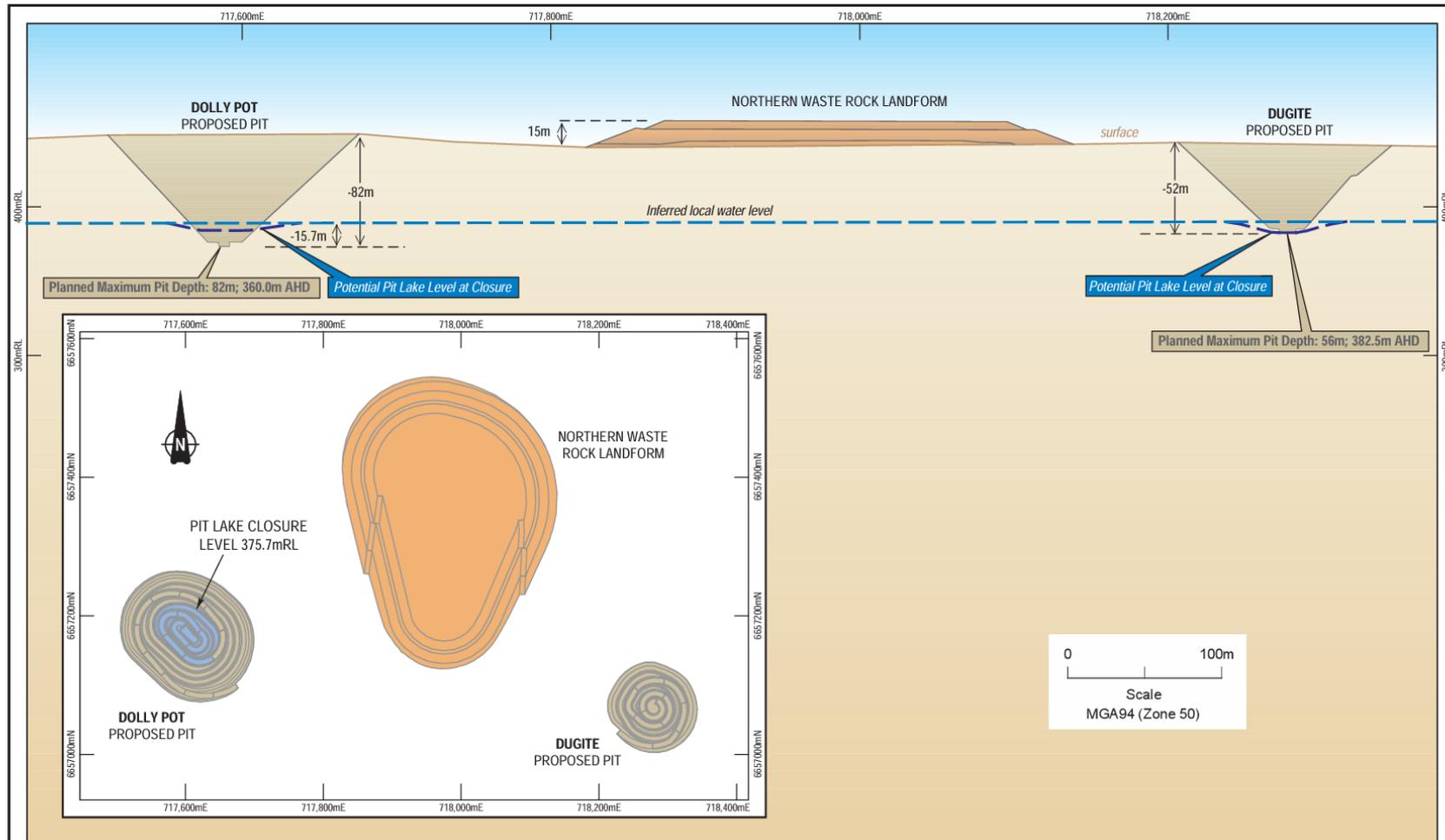
Source: Tenements - DMP
 Planimetry - Landgate
 Relief - Landgate (2m contours)
 GWL - SXG

Drawn: CAD Resources
 File No: g2103_mp_15

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Figure 4-19: Conceptual Groundwater Profile



Source:
Pits - Rockteam
Cross Section - Scope Australia

Drawn:
CAD Resources

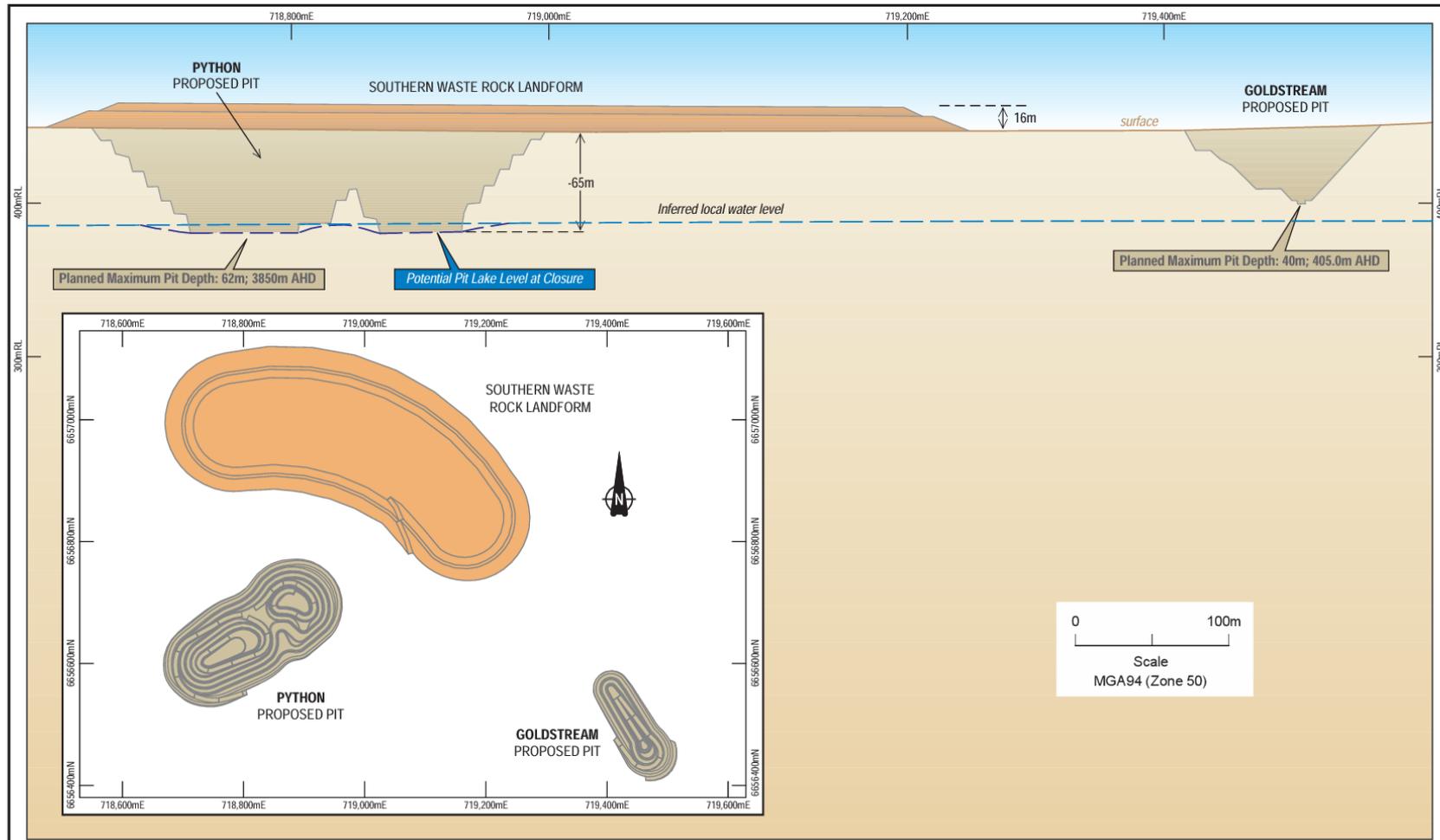
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**Figure 4-20: Marda Central Deposits
Dolly Pot and Dugite Cross Section**



Source:
Pits - Rockteam
Cross Section - Scope Australia

Drawn:
CAD Resources

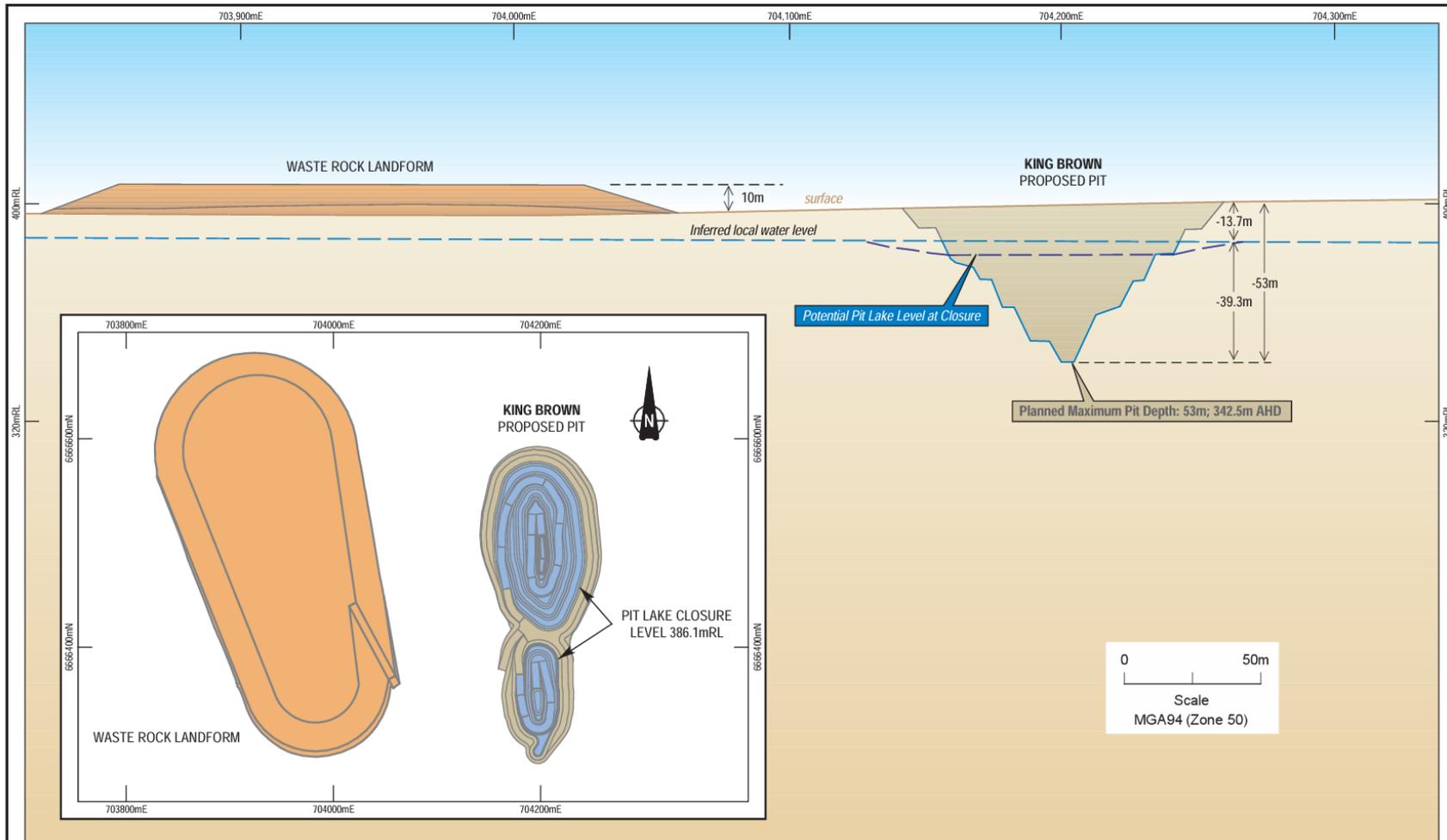
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File No:
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**Figure 4-21: Marda Central Deposits
Python and Goldstream Cross Section**



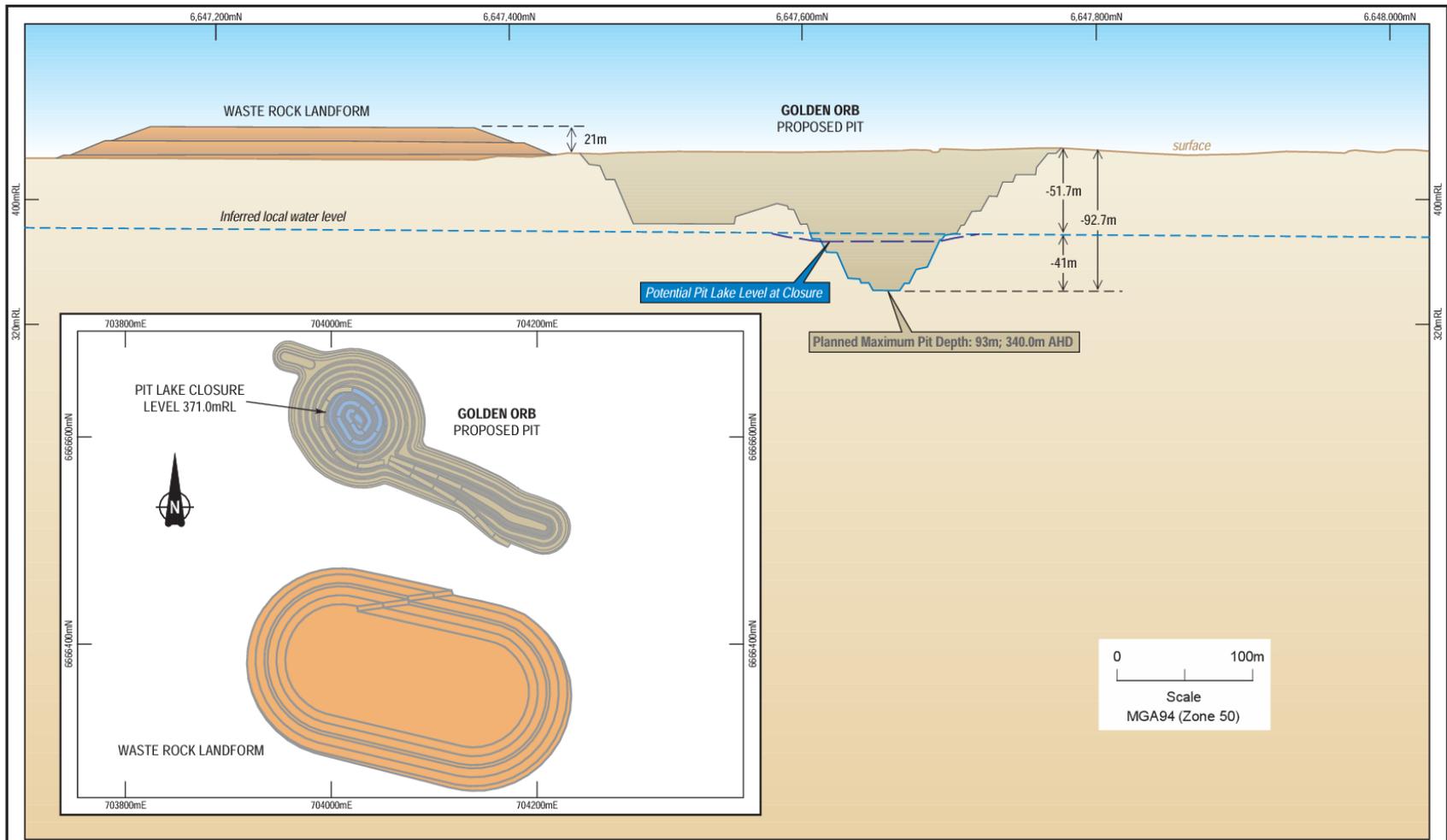
Source:
Pits - Rockteam
Cross Section - Scope Australia

Drawn:
CAD Resources
File No:
g2103_mp_10_03

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**Figure 4-22: King Brown
Cross Section**



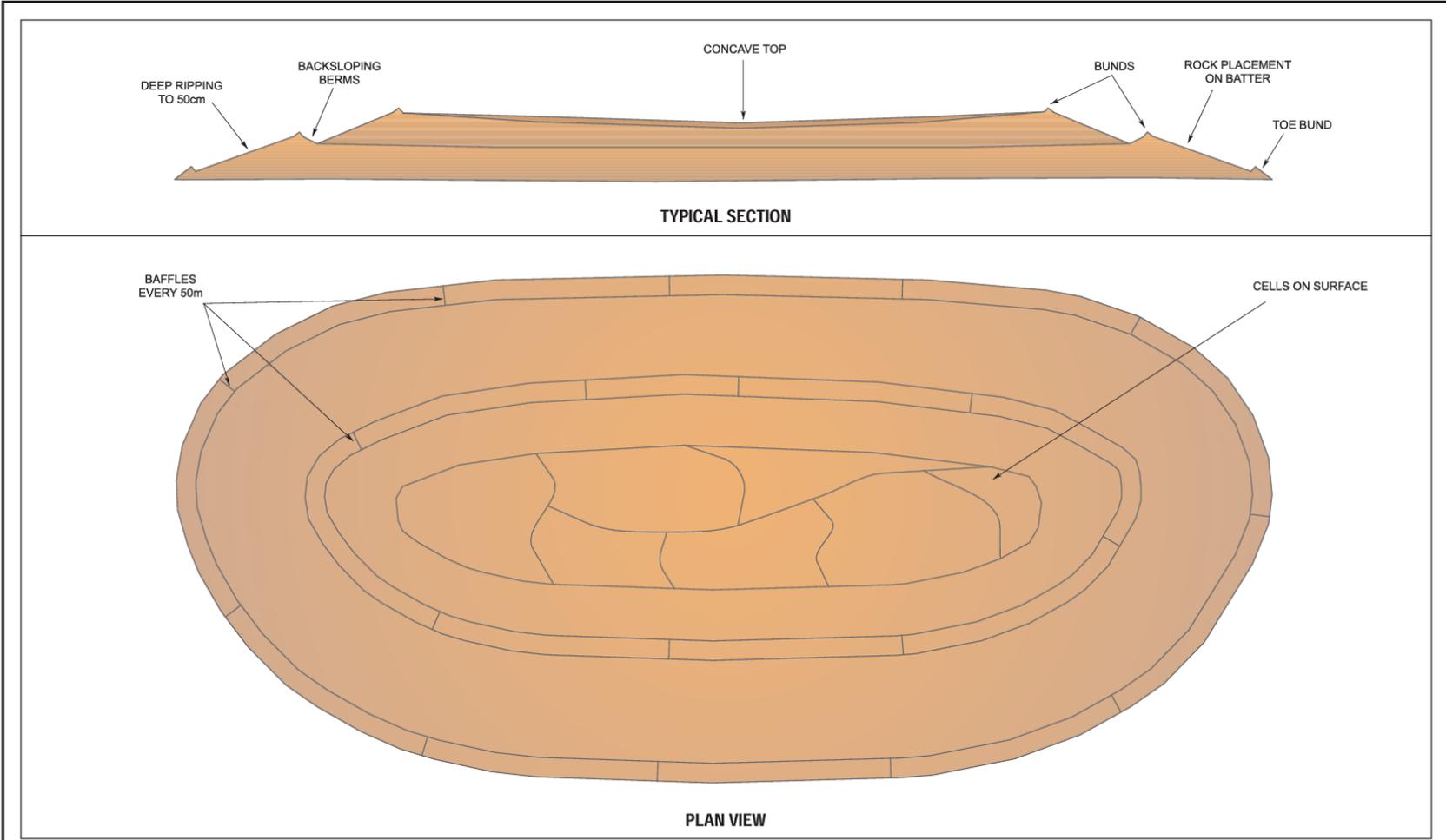
Source:
Pits - Rockteam
Cross Section - Scope Australia

Drawn:
CAD Resources
File No:
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**Figure 4-23: Golden Orb
Cross Section**



Source:
Bioscope
This figure is exaggerated and shown diagrammatically for clarity

Drawn:
CAD Resources
File No:
g2103_mp_23

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**Figure 4-24: Waste Rock Landform
Conceptual Closure Layout**