BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore 100 years post-mining
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 0 (end of construction)
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 0 (end of construction)
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 1
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 1
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 2

Murray River
Murrumbidgee River
Box Creek
Arumpo Creek

Town
Haul road
EIS offpath injection area
3 m modelled depth to water
Modelled depth to water (m)
High : 71.6
Low : 0.7

Major road
West Balranald pit limits
West Balranald disturbance
Modelled depth to water (m)

Minor Road
East Balranald disturbance

Lake
Nepean pit limits

River
Nepean disturbance

Watercourse
BAL2.0 model domain

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 2
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 3
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 3

Modelled depth to water (m)
- High: 71.6
- Low: 0.7

BAL2.0 model domain

EIS offpath injection area

3 m modelled depth to water

Balranald pit limits
Nepean pit limits

West Balranald disturbance
Nepean disturbance

Murrumbidgee River
Murray River
Box Creek
Arumpo Creek

GDA 1994 MGA Zone 54

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 4

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

I:

Murray River
Murrumbidgee River
Box Creek
Arumpo Creek
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 4
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 5

Town
Haul road
EIS offpath injection area
3 m modelled depth to water
Balranald pit limits
Balranald disturbance
Modelled depth to water (m)
High : 71.6
Low : 0.7

Murray River
Murrumbidgee River
Box Creek
Arumpo Creek

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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SYDNEY
MELBOURNE
WAGGA WAGGA

BALRANALD

I:\VESA\Projects\VE23875\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Depth to water\Rev2\BAL2.0_TS2_opt29_20220101_L1_DTW.mxd
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 5

Town
Haul road
EIS offpath injection area
3 m modelled depth to water
Modelling depth to water (m)
High: 71.6
Low: 0.7

Major road
West Balranald pit limits
West Balranald disturbance
Modelling depth to water (m)

Minor Road
Nepean pit limits

Lake
Nepean disturbance

River

Watercourse
BAL2.0 model domain

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 6

Modelled depth to water (m)
- High: 71.6
- Low: 0.7

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

BALRANALD
WAGGA WAGGA
SYDNEY
MELBOURNE

Murray River
Murrumbidgee River
Box Creek
Arumpo Creek

GDA 1994 MGA Zone 54

Town, Haul road, Major road, Minor Road, Lake, River, Watercourse, EIS offpath injection area, 3 m modelled depth to water, West Balranald pit limits, West Balranald disturbance, Nepean pit limits, Nepean disturbance, BAL2.0 model domain.
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 6.3
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 6.3
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 7
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 7
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 7.4

Modelled depth to water (m)
- High: 71.6
- Low: 0.7

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Awendaw, IGN, IGP, swisstopo, and the GIS User Community
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 7.4

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 8

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 8.
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 1 year post-mining.
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 1 year post-mining

High : 71.6
Low : 0.7

BALRANALD

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 5 years post-mining
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 5 years post-mining

- Town
- Haul road
- EIS offpath injection area
- 3 m modelled depth to water
- Modelling depth to water (m)
  - High: 71.6
  - Low: 0.7

- Major road
- West Balranald pit limits
- West Balranald disturbance
- Modelling depth to water (m)
- Town limits
- River
- Nepean pit limits
- Nepean disturbance
- Watercourse
- BAL2.0 model domain

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.

BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 5 years post-mining.
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 10 years post-mining
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 10 years post-mining
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 30 years post-mining

High: 71.6
Low: 0.7
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 30 years post-mining

High : 71.6
Low : 0.7

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 100 years post-mining
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 100 years post-mining

Modelled depth to water (m)
High : 71.6
Low : 0.7

EIS offpath injection area
3 m modelled depth to water
BAL2.0 model domain

Town
Haul road
Major road
Minor Road
Lake
River
Watercourse
West Balranald pit limits
West Balranald disturbance
Nepean pit limits
Nepean disturbance

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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SYDNEY BATHURST MELBOURNE WAGGA WAGGA
Appendix F. Predicted hydrographs at potential GDE sites
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

Town
Major road
Minor Road
Lake
River
Watercourse
Haul road
West Balranald pit limits
West Balranald disturbance
Nepean pit limits
Nepean disturbance
BAL2.0 model domain

BAL2.0 TS2 opt29 GDE hydrographs
Appendix G. Predicted hydrographs at third party wells
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Olney Formation third party wells

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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SYDNEY
WAGGA WAGGA
MELBOURNE

Olney Formation third party wells