Note: Section 7 and Section 8 are north of Figure M2.
Figure M6a

Modelled Geological Units

- Quindalup Member
- Parmelia Formation
- Yarragadee Formation
- Mowen Member
- Vasse Member
- Superficial formations
- Bunbury Basalt
- Inactive Cells

Blackwood River Valley Model
Layer 1 (Top)

Scale 1:3000

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Figure M6a
BLACKWOOD RIVER VALLEY MODEL
LAYER 4
MODELLED GEOLOGICAL UNITS

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Figure M6d
Figure M7

MODEL BOUNDARY CONDITIONS

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BLACKWOOD RIVER VALLEY MODEL

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Drain Cells
Specified Heads
**SWAMSV2.0 : Current Use - Start of Predictive Simulation**

- **Simulated Heads** (mAHD)
- **Model Easting (m)**
- **LAYER 1**
- **LAYER 2**
- **LAYER 3**
- **LAYER 4**
- **LAYER 5**
- **LAYER 6**
- **LAYER 7**
- **LAYER 8**

---

**SWAMSV2.0 : Current Use - After 30 Years**

- **Simulated Heads** (mAHD)
- **Model Easting (m)**
- **LAYER 1**
- **LAYER 2**
- **LAYER 3**
- **LAYER 4**
- **LAYER 5**
- **LAYER 6**
- **LAYER 7**
- **LAYER 8**
SWAMSV2.0 : Current Use - Start of Predictive Simulation

SWAMSV2.0 : Current Use - After 30 Years
Figure M8c

SWAMSV2.0: Current Use - Start of Predictive Simulation

SWAMSV2.0: Current Use - After 30 Years
**SWAMSV2.0 : Regional Growth - Start of Predictive Simulation**

- **Simulated Heads (mAHD)**
- **Model Easting (m)**
- Layers: LAYER 1 to LAYER 8

---

**SWAMSV2.0 : Regional Growth - After 30 Years**

- **Simulated Heads (mAHD)**
- **Model Easting (m)**
- Layers: LAYER 1 to LAYER 8
SWAMSV2.0 : Regional Growth - Start of Predictive Simulation

SWAMSV2.0 : Regional Growth - After 30 Years

**Regional Growth**

**Specified Heads from SWAMSV2.0 Model**

**Western Boundary of Model**
SWAMSV2.0 : Regional Growth - Start of Predictive Simulation

SWAMSV2.0 : Regional Growth - After 30 Years

Figure M9c

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Drawdown in specified heads (m) after 30 years

**Northern Boundary of Model**

**Western Boundary of Model**

**Southern Boundary of Model**

**Figure M9d**
Figure M10b

**SWAMSV2.0 : Eastern Split - Start of Predictive Simulation**

- **Model Northing (m)**: 61650 to 106650
- **Simulated Heads (mAHD)**: 0 to 160

- **Layer 1**
- **Layer 2**
- **Layer 3**
- **Layer 4**
- **Layer 5**
- **Layer 6**
- **Layer 7**
- **Layer 8**

**SWAMSV2.0 : Eastern Split - After 30 Years**

- **Model Northing (m)**: 61650 to 106650
- **Simulated Heads (mAHD)**: 0 to 160

- **Layer 1**
- **Layer 2**
- **Layer 3**
- **Layer 4**
- **Layer 5**
- **Layer 6**
- **Layer 7**
- **Layer 8**

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**Prep. By** ECPL 8 Sept '06  
**Chk'd By** IGB 15 Sept '06  
**Revision No.** 0  
**EASTERN SPLIT**  
**SPECIFIED HEADS FROM SWAMSV2.0 MODEL**  
**WESTERN BOUNDARY OF MODEL**  
**BLACKWOOD RIVER VALLEY MODEL**
Figure M10c

SWAMSV2.0 : Eastern Split - Start of Predictive Simulation

SWAMSV2.0 : Eastern Split - After 30 Years

Inactive Cells

SWAMSV2.0 : Eastern Split - Start of Predictive Simulation

SWAMSV2.0 : Eastern Split - After 30 Years
Northern Boundary of Model

Western Boundary of Model

Southern Boundary of Model

Drawdown in specified heads (m) after 30 years

Model Easting (m)

Model Northing (m)

Drawdown in specified heads (m) after 30 years

LAYER 1  LAYER 2  LAYER 3  LAYER 4  LAYER 5  LAYER 6  LAYER 7  LAYER 8

Figure M10d

Water Corporation
BLACKWOOD RIVER VALLEY MODEL
EASTERN SPLIT
SWAMSV2.0 MODEL
DRAWDOWN 2004 TO 2033
Source: Water Corporation SWAMSV2.0 model

BLACKWOOD RIVER VALLEY MODEL

EVAPOTRANSPIRATION ZONES AND RATES

ADOPTED FROM SWAMSV2.0 MODEL
Figure M13

CALIBRATION BORES

Water Corporation
BLACKWOOD RIVER VALLEY MODEL

Inactive Cells

Scale 1 : 3000

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GROUNDWATER DISCHARGE ZONES OF THE BLACKWOOD RIVER AND ITS TRIBUTARIES

Figure M14

Poison Gully
Milyeannup Brook
St John Brook
Blackwood River (Yarragadee Formation)
Blackwood River (Leederville Formation)
Inactive Cells

Model Easting (m)
Model Northing (m)

Scale 1 : 3000
Baddock, 2005 interpretations of perched water tables in the Leederville Formation based on regional areas of water table decline. These interpretations are uncertain. It is postulated that perched water tables might occur over significantly larger areas than interpreted, particularly where the Mowen Member is present.
Perched Water Table. Baddock, 2005 interpretations of perched water tables in the Leederville Formation based on regional areas of water table decline. These interpretations are uncertain. It is postulated that perched water tables might occur over significantly larger areas than interpreted, particularly where the Mowen Member is present.
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SIMULATED CONFINED YARRAGADEE FORMATION (1) POTENTIOMETRIC HEADS AT THE END OF MODEL CALIBRATION

Figure M15g
BLACKWOOD RIVER VALLEY MODEL
SIMULATED CONFINED YARRAGADEE FORMATION (2)
POTENTIOMETRIC HEADS AT THE END OF
MODEL CALIBRATION

Figure M15h
Baddock, 2005 interpretations of perched water tables in the Leederville Formation based on regional areas of water table decline. These interpretations are uncertain. It is postulated that perched water tables might occur over significantly larger areas than interpreted, particularly where the Mowen Member is present.
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Greater than 10m to simulated water table