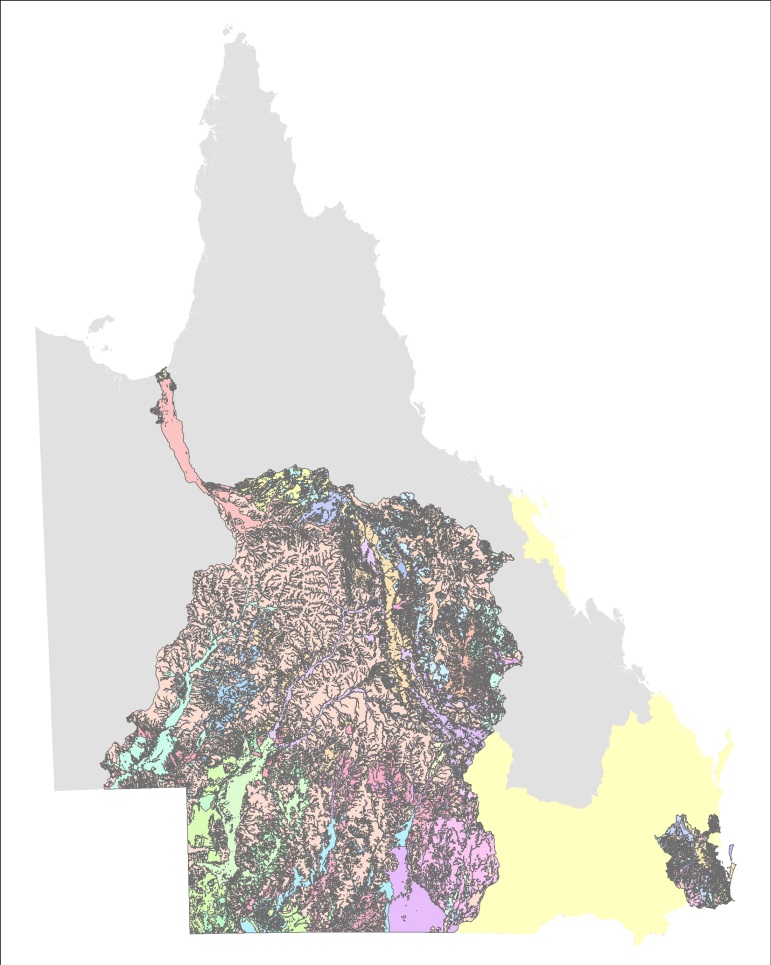
**Shallowest\_watertable\_aquifer**

**File Geodatabase Feature Class**



**Tags**  
inlandWaters, WATER, WATER Wetlands Mapping, WATER Wetlands, WATER Mapping, WATER Groundwater, WATER Groundwater Mapping, ECOLOGY Ecosystem, Aquifer, Shallowest Watertable Aquifer, environment, South East Queensland (SEQ), Lake Eyre Basin (LEB), Cooper Basin (CB), Galilee Basin, Western Murray-Darling Basin (MDB).

**Summary**

Shallowest watertable aquifer extent and properties

**Description**

Shallowest watertable aquifer mapping identifies the extent and key characteristics of the shallowest watertable aquifers in a landscape. Watertable aquifers are unconfined geological formations that store and transmit groundwater. There may be other deeper aquifers not captured in this mapping (e.g. confined aquifers). Shallowest watertable aquifer mapping has been characterised according to a range of criteria including confinement, geology, porosity, groundwater flow system, salinity, pH, recharge process, temporal and spatial connectivity with surface ecosystems, etc.

The shallowest watertable aquifer mapping consists of 1 data set which can be viewed independently or complementary to Queensland’s GDE mapping.

**Credits**

There are no credits for this item.

**Use limitations**

While every care is taken to ensure the accuracy of this information, the Queensland Department of Science, Information Technology and Innovation makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the information being inaccurate or incomplete in any way and for any reason. © The State of Queensland (Department of Science, Information Technology and Innovation) 2015.

**Extent**

|  |  |  |  |
| --- | --- | --- | --- |
| **West** | 139.055466 | **East** | 153.551910 |
| **North** | -17.478935 | **South** | -29.000470 |

**Scale Range**

|  |  |
| --- | --- |
| **Maximum (zoomed in)** | 1:5,000 |
| **Minimum (zoomed out)** | 1:150,000,000 |

**[Topics and Keywords  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "true)**

Themes or categories of the resource  inlandWaters, environment

**\*** Content type  Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Place keywords  South East Queensland (SEQ)

Place keywords  Lake Eyre Basin (LEB)

Place keywords  Cooper Basin (CB)

Place keywords  Galilee Basin (GB)

Place keywords  Western Murray-Darling Basin (MDB)

Theme keywords  WATER, WATER Wetlands Mapping, WATER Wetlands, WATER Mapping, WATER Groundwater, WATER Groundwater Mapping, ECOLOGY Ecosystem, Aquifer

Theme keywords  inlandWaters, environment

[Thesaurus  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EACPIA)

Title ISO 19115 Topic Categories

[**Citation  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EXIA)

Title Shallowest\_watertable\_aquifer

Publication date 2015-02-20

Edition Version 1.0

Presentation formats  digital map

FGDC geospatial presentation format  vector digital data

Other citation details

Access AVAILABLE FORMAT TYPE(S) 1. Online Digital Data and Map Products (webpage under development) 2. Digital data available as a ESRI Shapefile, ESRI Geodatabase and ESRI Geodatabase Export download

[**Citation Contacts  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EDXIA)

Responsible party

Organization's name Queensland Herbarium, Department of Science, Information Technology and Innovation

Contact's role  originator

[*Hide Citation Contacts ▲*](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EDXIA)

[**Resource Details  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EDCHRA)

Dataset languages  English (AUSTRALIA)

Dataset character set  utf8 - 8 bit UCS Transfer Format

Status  under development

Spatial representation type  vector

**\*** Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.1.3510

ArcGIS item properties

**\*** Name Shallowest\_Watertable\_Aquifer

**\*** Location file://\\SDD00295\D$\BACKUPS\25\_2015\_06\_29 GDE v01\_3\Shallowest\_Watertable\_Aquifer\_mapping v1\_0\Shallowest\_Watertable\_Aquifer.gdb

**\*** Access protocol Local Area Network

[**Extents  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EEBCHRA)

Extent

Description

South East Queensland (SEQ); Western Murray-Darling Basin (MDB); Lake Eyre Basin (LEB); Cooper Basin (CB); Galilee Basin (GB) areas

Geographic extent

Bounding rectangle

West longitude 151.629531

East longitude 153.552933

South latitude -28.364059

North latitude -26.407742

Extent contains the resource Yes

Temporal extent

Date and time 2009-08-01 00:00:00

Extent

Geographic extent

Bounding rectangle

Extent type  Extent used for searching

**\*** West longitude 139.055466

**\*** East longitude 153.551910

**\*** North latitude -17.478935

**\*** South latitude -29.000470

**\*** Extent contains the resource Yes

Extent in the item's coordinate system

**\*** West longitude 139.055466

**\*** East longitude 153.551910

**\*** South latitude -29.000470

**\*** North latitude -17.478935

**\*** Extent contains the resource Yes

[**Resource Points of Contact  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0ETIA)

Point of contact

Individual's name Queensland Herbarium

Organization's name Department of Science, Information Technology and Innovation

Contact's position Queensland GDE Program Manager

Contact's role  point of contact

[Contact information  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EBTIA)

Phone

Voice +61 7 3896 9326

Address

Type both

Delivery point Brisbane Botanic Gardens, Mt Coot-tha Road

City TOOWONG

Administrative area QLD

Postal code 4066

Country AU

e-mail address [Queensland.Herbarium@dsiti.qld.gov.au](mailto:Queensland.Herbarium@dsiti.qld.gov.au?subject=Shallowest_watertable_aquifer)

Hours of service

9 am -5 pm

[**Resource Maintenance  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0ESIA)

Resource maintenance

Update frequency  irregular

[**Resource Constraints  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0ENIA)

Legal constraints

Other constraints

Unrestricted to all levels of government and community. Dataset is available to all government agencies, community groups and individuals. Dataset is available through physical supply and may be made available via web delivery tools, for example, through the Queensland Department of Environment and Heritage Protection internet site.

Constraints

Limitations of use

While every care is taken to ensure the accuracy of this information, the Queensland Department of Science, Information Technology and Innovation makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the information being inaccurate or incomplete in any way and for any reason. © The State of Queensland (Department of Science, Information Technology and Innovation) 2015.

[**Spatial Reference  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EDBHRA)

ArcGIS coordinate system

**\*** Type Geographic

**\*** Geographic coordinate reference GCS\_GDA\_1994

**\*** Coordinate reference details

Geographic coordinate system

Well-known identifier 4283

X origin -400

Y origin -400

XY scale 999999999.99999988

Z origin -100000

Z scale 10000

M origin -100000

M scale 10000

XY tolerance 8.9831528411952133e-009

Z tolerance 0.001

M tolerance 0.001

High precision true

Left longitude -180

Latest well-known identifier 4283

Well-known text GEOGCS["GCS\_GDA\_1994",DATUM["D\_GDA\_1994",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4283]]

Reference system identifier

**\*** Value 4283

**\*** Codespace EPSG

**\*** Version 8.2.6

[**Spatial Data Properties  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EAGA)

[Vector  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EBAGA)

**\*** Level of topology for this dataset  geometry only

Geometric objects

Feature class name Shallowest\_Watertable\_Aquifer

**\*** Object type  composite

**\*** Object count 106

[ArcGIS Feature Class Properties  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EA)

Feature class name Shallowest\_Watertable\_Aquifer

**\*** Feature type Simple

**\*** Geometry type Polygon

**\*** Has topology FALSE

**\*** Feature count 106

**\*** Spatial index TRUE

**\*** Linear referencing FALSE

[**Data Quality  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EADHA)

[Scope of quality information  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EADHA)

Resource level  dataset

[Data quality report - Completeness omission  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ECHA)

Measure description

This dataset reflects the level of knowledge and information about the landscape that may be biased due to a range of reasons such as accessibility and land use: It is likely that the dataset is incomplete. Detailed field survey and verification of the groundwater location, extent and fluctuation has not been done, nor has the level of ecosystem dependency on groundwater been tested.

[Data quality report - Quantitative attribute accuracy  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EBHA)

Measure description

The aquifer attribution was sourced from local expert knowledge, literature and spatial data. The reliability of different attribute values may vary. Areas described as 'known' have been delineated according to local expert knowledge and generally have the highest level of confidence. Areas that are derived from a rule base, that make up the majority of the areas mapped, have been assigned a level of confidence according to judgment of the reliability of knowledge supporting the rule base.

[Data quality report - Absolute external positional accuracy  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EAHA)

Dimension horizontal

Measure description

The mapping linework is at a nominal scale of 1:100 000 or better & the accuracy associated with this is within the range +/-100 metres. For more information refer to the regional ecosystems and Queensland Wetlands Data metadata.

[**Distribution  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EEA)

Distribution format

**\*** Name File Geodatabase Feature Class

[**Fields  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EFA)

[Details for object Shallowest\_Watertable\_Aquifer  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EAFA)

**\*** Type Feature Class

**\*** Row count 106

[Field Shape  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ETAFA)

**\*** Alias Shape

**\*** Data type Geometry

**\*** Width 0

**\*** Precision 0

**\*** Scale 0

Field description

Feature geometry.

Description source

Esri

Description of values

Coordinates defining the features.

[Field AQ\_NAME  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ESAFA)

**\*** Alias Source Aquifer Name

**\*** Data type String

**\*** Width 100

**\*** Precision 0

**\*** Scale 0

Field description

Source aquifer name. Can be more than 1 source aquifer

[Field AQ\_CONFIN  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ERAFA)

**\*** Alias Source Aquifer Confinement

**\*** Data type String

**\*** Width 40

**\*** Precision 0

**\*** Scale 0

Field description

Source aquifer confinement: Confined or unconfined

[Field CONFIDENCE  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EQAFA)

**\*** Alias Confidence

**\*** Data type String

**\*** Width 50

**\*** Precision 0

**\*** Scale 0

[Field RULE\_ID  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EPAFA)

**\*** Alias GDE Rule ID

**\*** Data type String

**\*** Width 32

**\*** Precision 0

**\*** Scale 0

[Field GW\_CONN\_SP  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EOAFA)

**\*** Alias Spatial Connectivity between GDE and GW

**\*** Data type String

**\*** Width 40

**\*** Precision 0

**\*** Scale 0

Field description

Spatial connectivity between GDE and GW. The type or direction of connectivity e.g. connected gaining or losing

[Field EVIDENCE  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ENAFA)

**\*** Alias Evidence

**\*** Data type String

**\*** Width 50

**\*** Precision 0

**\*** Scale 0

[Field GW\_CON\_T\_D  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EMAFA)

**\*** Alias Temporal Nature of GW Connectivity Detailed

**\*** Data type String

**\*** Width 50

**\*** Precision 0

**\*** Scale 0

Field description

Temporal nature of GW connectivity/use e.g. Permanent/ near-permanent/ intermittent etc. This attribute is analogous to the ANAE (GW\_CONN\_TM) attribute but has more categories e.g. includes near-permanent and episodic

[Field Shape\_Area  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ELAFA)

**\*** Alias Shape\_Area

**\*** Data type Double

**\*** Width 8

**\*** Precision 0

**\*** Scale 0

Field description

Area of feature in internal units squared.

Description source

Esri

Description of values

Positive real numbers that are automatically generated.

[Field GW\_RECHARG  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EKAFA)

**\*** Alias Dominant Recharge Process of GW Source

**\*** Data type String

**\*** Width 32

**\*** Precision 0

**\*** Scale 0

Field description

Dominant recharge process of groundwater source: Infiltration, inundation, marine throughflow etc

[Field Shape\_Length  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EJAFA)

**\*** Alias Shape\_Length

**\*** Data type Double

**\*** Width 8

**\*** Precision 0

**\*** Scale 0

Field description

Length of feature in internal units.

Description source

Esri

Description of values

Positive real numbers that are automatically generated.

[Field GW\_SALINTY  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EIAFA)

**\*** Alias Salinity of Groundwater Source

**\*** Data type String

**\*** Width 32

**\*** Precision 0

**\*** Scale 0

Field description

Salinity of Groundwater Source: < 1500 mg/L TDS 1,500 - 3,000 3,000 - 35,000 > 35,000 Fluctuating etc

[Field AQ\_GEOL  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EHAFA)

**\*** Alias Source Aquifer Geology

**\*** Data type String

**\*** Width 80

**\*** Precision 0

**\*** Scale 0

Field description

Source aquifer broad geology: Cavernous, Unconsolidated, Fractured > Different to ANAE (Porous, Unconsolid, Fractured)

[Field AQ\_POROSTY  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EGAFA)

**\*** Alias Source Aquifer Porosity

**\*** Data type String

**\*** Width 32

**\*** Precision 0

**\*** Scale 0

Field description

Source aquifer porosity: Primary / Secondary / Tertiary

[Field GW\_CONN\_TM  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EFAFA)

**\*** Alias Temporal Nature of GW Connectivity

**\*** Data type String

**\*** Width 50

**\*** Precision 0

**\*** Scale 0

Field description

Temporal nature of GW connectivity/use e.g seasonal/ permanent/ intermittent etc. This attribute is analogous to the Queensland specific attribute (GW\_CONN\_T\_D) but has fewer categories

[Field RULE\_NAME  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EEAFA)

**\*** Alias GDE Rule Set Name

**\*** Data type String

**\*** Width 120

**\*** Precision 0

**\*** Scale 0

Field description

GDE rule-set Name e.g. Fractured metamorphic rocks, Low porosity sedimentary rocks with intermittent flow

[Field OBJECTID  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EDAFA)

**\*** Alias OBJECTID

**\*** Data type OID

**\*** Width 4

**\*** Precision 0

**\*** Scale 0

Field description

Internal feature number.

Description source

Esri

Description of values

Sequential unique whole numbers that are automatically generated.

[Field GW\_PH  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ECAFA)

**\*** Alias Ph of GW Source

**\*** Data type String

**\*** Width 16

**\*** Precision 0

**\*** Scale 0

[Field C\_MODEL  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EBAFA)

**\*** Alias Conceptual Model

**\*** Data type String

**\*** Width 160

**\*** Precision 0

**\*** Scale 0

Field description

Link to associated GDE conceptual model (URL hyperlinked attribute) e.g. Alluvia

[Field AQ\_GFS  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EAAFA)

**\*** Alias Source Aquifer Groundwater Flow System

**\*** Data type String

**\*** Width 32

**\*** Precision 0

**\*** Scale 0

Field description

Source aquifer Groundwater Flow System (GFS): Shallow alluvial/ Basin/ Bedrock (Local, Intermediate, Regional) or Perched

[**Metadata Details  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0TALRA)

Metadata language English (AUSTRALIA)

Metadata character set  utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata  dataset

Scope name  **\*** dataset

**\*** Last update 2015-06-29

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Metadata style FGDC CSDGM Metadata

Standard or profile used to edit metadata FGDC

Created in ArcGIS for the item 2015-05-06 17:26:13

Last modified in ArcGIS for the item 2015-06-29 10:47:21

Automatic updates

Have been performed Yes

Last update 2015-06-29 10:47:21

[**Metadata Contacts  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EMA)

Metadata contact

Organization's name Queensland Herbarium, Department of Science, Information Technology and Innovation

Contact's role  point of contact

[Contact information  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0EBMA)

Phone

Voice +61 7 3896 9326

Address

Type both

Delivery point Queensland Herbarium, Brisbane Botanic Gardens, Mt Coot-tha Road

City TOOWONG

Administrative area QLD

Postal code 4066

Country AU

e-mail address [queensland.herbarium@dsiti.qld.gov.au](mailto:queensland.herbarium@dsiti.qld.gov.au?subject=Shallowest_watertable_aquifer)

Hours of service

9 am -5 pm

[**Metadata Maintenance  ▼►**](file:///C:\Users\ryant\AppData\Local\Temp\arc9722\tmpBF9.tmp.htm#ID0EAA)

Maintenance

Update frequency  irregular

Maintenance contact

Organization's name Queensland Herbarium, Department of Science, Information Technology and Innovation

Contact's role  point of contact

[Contact information  ▼►](file:///C:\\Users\\ryant\\AppData\\Local\\Temp\\arc9722\\tmpBF9.tmp.htm" \l "ID0ECAAA)

Phone

Voice +61 7 3896 9326

Address

Type both

Delivery point Queensland Herbarium, Brisbane Botanic Gardens, Mt Coot-tha Road

City TOOWONG

Administrative area QLD

Postal code 4066

Country AU

e-mail address [queensland.herbarium@dsiti.qld.gov.au](mailto:queensland.herbarium@dsiti.qld.gov.au?subject=Shallowest_watertable_aquifer)

Hours of service

9 am -5 pm