

# Western Australian Marine Map

Get started by visiting:

<https://maps.slip.wa.gov.au/Marine/app/>

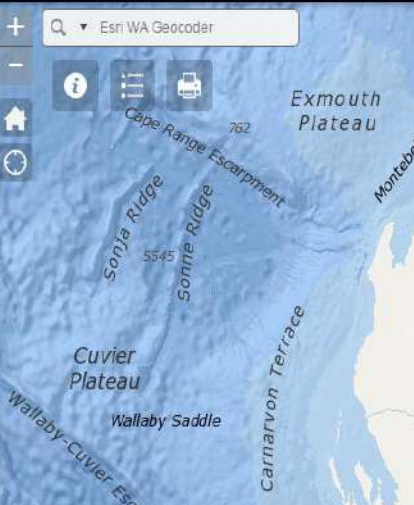
# Western Australian Marine Map: Functionality

The screenshot displays the WA Marine Map 3 interface with the following callouts:

- Address search
- Print
- Open map layers
- Open a map legend
- Measure length or area
- Open a bathymetric legend
- Mark up this map: draw & annotate
- Zoom in/ out
- Basemap Gallery
- Home Page
- Query Data
- Find my location
- Links to Data Custodians
- Scale bar
- Map coordinates
- Open Attribute Table
- Overview Map

At the top of the interface, the text reads: SLIP WA Marine Map 3 Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group. The bottom right corner features the logos for Earthstar Geographics and esri.

# Data Layers: Layer Grouping and Layer Functionality



**Main Group Layer Functionality:**

- Can Zoom to the group layer
- Can set transparency on the group layer
- Can move the group layer up or down
- And see the group layer description

**3 Main Layer Groups:**

- 1 Marine Map WA
- 2 WA Bathymetry
- 3 Locate

**1 Marine Map WA**

- Maritime & Shipping  
shipwrecks, Archaeological sites, Port Authorities, Navigation Aids, Shipping Pilotage, Marine & Harbours act areas
- Coastal Planning  
coastline movements, coastal plans & infrastructure
- Land Features & Boundaries  
localities, LGA, Roads, Cadastre
- Geological & geophysical  
sediment cells, coastal compartment
- Mining & Petroleum  
Petroleum wells, pipelines, releases, applications, titles
- Marine Parks & Fishing  
Managed Lands and Waters

**2 WA Bathymetry**

- Point survey index
- Bathymetry Images  
Kimberley, Pilbara, Gascoyne, Mid West, Metro, South West, South coast

**3 Locate**

- Virtual Mosaic Index
- Virtual Mosaic Imagery  
Boundary Footprint Image



**Layer List**

Operational Layers

- Marine\_Map\_WA\_3
  - Zoom to
  - Transparency
  - Move up
  - Move down
  - Description
- Maritime & Shipping
- Coastal Planning
- Land Features & Boundaries
- Geological & Geophysical
- Mining - Petroleum
- Marine Parks & Fishing
- WA\_Bathymetry
- Point Survey Index
- Bathymetry Images
- Locate
  - Locate\_VM\_INDEX
  - Locate\_VM\_Imagery

# Data Layers: Switching on layers

The screenshot shows the WA Marine Map 3 interface. The map displays a coastal area with various data layers overlaid, including a yellow boundary, a red boundary, and a blue boundary. The Layer List panel is open on the right, showing a list of layers with checkboxes. The following callout boxes provide instructions:

- Open Layer List**: Points to the Layer List icon in the top right corner.
- Ensure the Top Layer folder is ticked on ✓**: Points to the checked checkbox for the 'Marine\_Map\_WA\_3' folder.
- ✓ Select the Group Layer**: Points to the checked checkbox for the 'Coastal Planning' group.
- ✓ Select the individual Layers**: Points to the checked checkboxes for 'Coastline Movements - Vegetation Lines', 'Coastal Plan Locations (DCP-085)', 'Coastal Plan Extents - Simplified (DOP-087)', 'Coastal Infrastructure DOT', and 'Cockburn Sound Management Council Boundary (DER-017)'.

The Layer List panel contains the following layers:

- Operational Layers
  - Marine\_Map\_WA\_3
    - Maritime & Shipping
    - Coastal Planning
      - Coastline Movements - Vegetation Lines
      - Coastal Plan Locations (DCP-085)
      - Coastal Plan Extents - Simplified (DOP-087)
      - Coastal Infrastructure DOT
      - Cockburn Sound Management Council Boundary (DER-017)
    - Land Features & Boundaries
    - Geological & Geophysical
    - Mining - Petroleum
    - Marine Parks & Fishing
    - WA\_Bathymetry
    - Locate

# Data Layers: Switching on layers for Bathymetry

**WA Marine Map 3** Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group

Esri WA Geocoder

**Open Bathymetry Layer List**

**Bathymetric Legend**

**Hydrographic Composite Surface Bathymetric Legend (metres)**

Composite surface surveys created from all multi-beam, laser and LiDAR surveys bedded into the Bathymetric Information System managed by Coastal Information Branch, DoT, Fremantle.

32 - 31	16 - 9	12 - 13
31 - 30	9 - 8	13 - 14
30 - 29	8 - 7	14 - 15
29 - 28	7 - 6	15 - 16
28 - 27	6 - 5	16 - 17
27 - 26	5 - 4	17 - 18
26 - 25	4 - 3	18 - 19
25 - 24	3 - 2	19 - 20
24 - 23	2 - 1	20 - 21
23 - 22	1 - 0	21 - 22
22 - 21	0 - -1	22 - 23
21 - 20	-1 - -2	23 - 24
20 - 19	-2 - -3	24 - 25
19 - 18	-3 - -4	25 - 26
18 - 17	-4 - -5	26 - 27
17 - 16	-5 - -6	27 - 28
16 - 15	-6 - -7	28 - 29
15 - 14	-7 - -8	29 - 30
14 - 13	-8 - -9	
13 - 12	-9 - -10	
12 - 11	-10 - -11	
11 - 10	-11 - -12	

**Layer List**

Operational Layers

- Marine\_Map\_WA\_3
  - Maritime & Shipping
  - Coastal Planning
  - Land Features & Boundaries
  - Geological & Geophysical
  - Mining - Petroleum
  - Marine Parks & Fishing
- WA\_Bathymetry
  - Point Survey Index
  - 
  - Bathymetry Images
    - Kimberley
    - Pilbara
    - Gascoyne
    - Mid West
    - Metro
    - South West
    - South Coast
  - Locate

Ensure the **Top Layer** folder is ticked on ✓

✓ Select the Bathymetry Group

✓ Select the individual Layers

# Data Layers: set Transparency

SLIP WA Marine Map 3 Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group

Esri WA Geocoder

Use the slider bar to adjust the transparency of the layers to see the imagery underneath

Layer List

Opaque Transparent

0% 50% 100%

Zoom to Transparency

Move up Move down Description

- Bathymetry Images
- Kimberley
- Pilbara
- Gascoyne
- Mid West
- Metro
- South West
  - DOT\_Yalgorup\_5m\_Image\_20151704.jpg
  - DOT\_Binningup\_5m\_Image\_20151704.jpg
  - DOT\_Bunbury\_5m\_Image\_20151704.jpg
  - DOT\_Busselton\_5m\_Image\_20151704.jpg
  - DOT\_CapeI\_5m\_Image\_20151704.jpg
  - DOT\_Naturaliste\_5m\_Image\_20151704.jpg
- South Coast
  - DOT\_Albany\_5m\_Image\_20151704.jpg
  - DOT\_Augusta\_5m\_Image\_20151704.jpg

1km -33.304 115.736 Degrees

# Data Layers: Attribute Table

Open a table view to see the data attributes

Options:

- Show selected records
- Show related records
- Filter by map extent
- Show / Hide columns
- Export to CSV

Show / Hide columns

Options Zoom to Clear Selection Refresh

DPAW Managed Lands and Waters (DPAW-026)

class	identifier	purpose	vesting	name	name_stat	legal_area	tenure	act	category	notes
A	M 3	Marine Park	Marine Parks And Reserves Authority	Rowley Shoals Marine Park	Gazetted	0	Crown Land		Marine Park	
A	M 11	Marine Management Area	Marine Parks And Reserves Authority	Barrow Island Marine Management Area	Gazetted	0	Crown Land		Marine Management Area	
A	F 34	State Forest	Conservation Commission Of WA	North Donnelly State Forest	Unofficial	33,627.6	Crown Land		State Forest	
A	R 34257	Conservation Of Flora And Fauna	Conservation Commission Of WA	Swan Island Nature Reserve	Gazetted	29.0322	Crown Land		Nature Reserve	

12828 features 1 selected

- purpose
- vesting
- name
- name\_stat
- iucn
- legal\_area
- tenure
- act
- category

# Western Australian Marine Map: Query Data

SLIP WA Marine Map 3 Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group

Esri WA Geocoder

Query

Execute one of the following task items to execute the query.

- Localities (LGATE-008)
- Port Authorities (LGATE-132)
- Shipwrecks (WAM-002)
- Maritime Archaeological Sites (WAM-001)

Clear Results

Run predefined queries

Kingman, Sarah Burnett, Barkins, Fairy, Cheynes II, Perth II HMAS, Fanny Nicholson, Runnymede, Goode Beach unidentified, Elvie Rip, Cheynes IV, Frenchman Bay Iron Barge

2km -35.024 118.007 Degrees

SLIP | WALIS | NIWA, GeosciencesAustralia

# Western Australian Marine Map: Measurements

SLIP WA Marine Map 3 Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group

Esri WA Geocoder

Measurement

Sq Meters

Measurement Result

122,116,411.0 Sq Meters

Perth Canyon

Duffield Ridge

Sepia Depression

Perth Swan River

2858

WALIS | NIWA, GeosciencesAustralia

10km

-31.821 116.163 Degrees

Measure lengths and areas, or get map coordinates

Click each corner of the shape you want to measure

# Western Australian Marine Map: Drawing and Annotation

The screenshot displays the SLIP WA Marine Map 3 interface. The map shows the Western Australian coastline with blue annotations. Key geographical features labeled include Perth Canyon, Duffield Ridge, Sepia Depression, Perth, Swan River, and Canning River. A scale bar indicates 10km, and coordinates are shown as -31.739 116.491 Degrees. The interface includes a search bar with 'Esri WA Geocoder', a home button, and a print button. A 'Draw' panel is open on the right, showing drawing tools and settings. A red circle highlights the 'Draw' button in the top right corner. Two callout boxes provide instructions: one pointing to the print button and another pointing to the 'Draw' panel.

SLIP WA Marine Map 3 Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group

Esri WA Geocoder

Print OR Screen grab (PrtSc) to share your annotated map with colleagues

Use the 'Draw' feature to annotate your map

Draw

Select drawing mode

Preview:

Color

Transparency

Outline Color

Outline Width

Show Measurements

Undo Redo Clear

WALIS | NIWA, GeosciencesAustralia.

# Western Australian Marine Map: Basemap

SLIP WA Marine Map 3 Powered by SLIP Terms and Conditions data.wa.gov.au WALIS Marine Group

Esri WA Geocoder

Cocos Keeling Rise

Wharton Basin

Exmouth Plateau

Montebello Saddle

Cape Range Canyon

Cuvier Abyssal Basin

Cuvier Plateau

Wallaby Saddle

Perth Basin

Perth

Naturaliste Plateau

Great Australian Bight

Eyre Terrace

Spencer Canyon

Spring Canyon

Gantheaume Canyon

Australia

Timor Sea

Fairholme

400km

-21.924 112.787 Degrees

Esri, GEBCO, DeLorme, NaturalVue

Esri Basemap Gallery

- Dark Gray Canvas
- Imagery
- Imagery with Labels
- Light Gray Canvas
- National Geographic
- Oceans
- OpenStreetMap
- Streets
- Terrain with Labels
- Topographic

Select an alternative background from the Esri Basemap Gallery

# SLIP Map Services: connecting to SLIP services in other applications

## SLIP Custom Map:

- Provides basic functionality to view and interrogate SLIP data

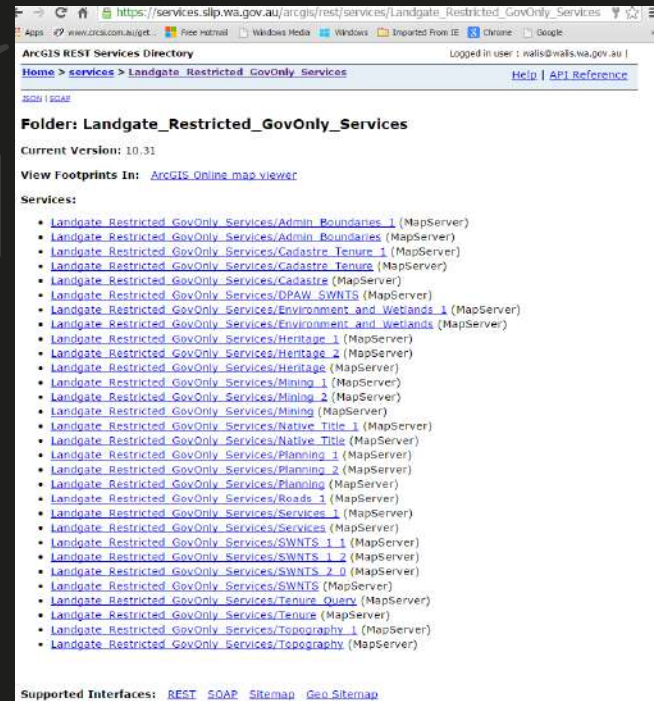
## SLIP Data Services:

- Can be added to your own GIS application like Esri ArcMap or QGIS.
- GIS applications offer additional functionality like, adding your own data and doing data analysis
- Types of SLIP data services available are: Esri Map service, Esri REST service or Web Map Service

The restricted government services are available here: (user name and password required)

[https://services.slip.wa.gov.au/arcgis/rest/services/Landgate\\_Restricted\\_GovOnly\\_Services](https://services.slip.wa.gov.au/arcgis/rest/services/Landgate_Restricted_GovOnly_Services)

You can also view the SLIP Services list via an Internet browser.



The screenshot shows a web browser displaying the ArcGIS REST Services Directory for the 'Landgate\_Restricted\_GovOnly\_Services' folder. The page title is 'ArcGIS REST Services Directory' and the current version is 10.31. It lists various services available, including Admin Boundaries, Cadastre, Environment and Wetlands, Heritage, Mining, and Topography. The supported interfaces are REST, SOAP, Sitemap, and Geo Sitemap.

Folder: Landgate\_Restricted\_GovOnly\_Services  
Current Version: 10.31  
View Footprints In: ArcGIS Online map viewer

Services:

- Landgate\_Restricted\_GovOnly\_Services/Admin\_Boundaries\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Admin\_Boundaries (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Cadastre\_Tenure\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Cadastre\_Tenure (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Cadastre (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/DPAW\_SWNTS (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Environment\_and\_Wetlands\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Environment\_and\_Wetlands (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Heritage\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Heritage\_2 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Heritage (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Mining\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Mining\_2 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Mining (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Native\_Title\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Native\_Title (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Planning\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Planning\_2 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Planning (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Roads\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Services\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Services (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/SWNTS\_1\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/SWNTS\_1\_2 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/SWNTS\_2\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/SWNTS (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Tenure\_Quarry (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Tenure (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Topography\_1 (MapServer)
- Landgate\_Restricted\_GovOnly\_Services/Topography (MapServer)

Supported Interfaces: REST SOAP Sitemap Geo Sitemap

# SLIP Map Services: using SLIP services in ArcMap

To open Esri Map Services in ArcMap: in Arc Catalog – add GIS Servers

Add <https://services.slip.wa.gov.au/arcgis/services> to the Server URL text box

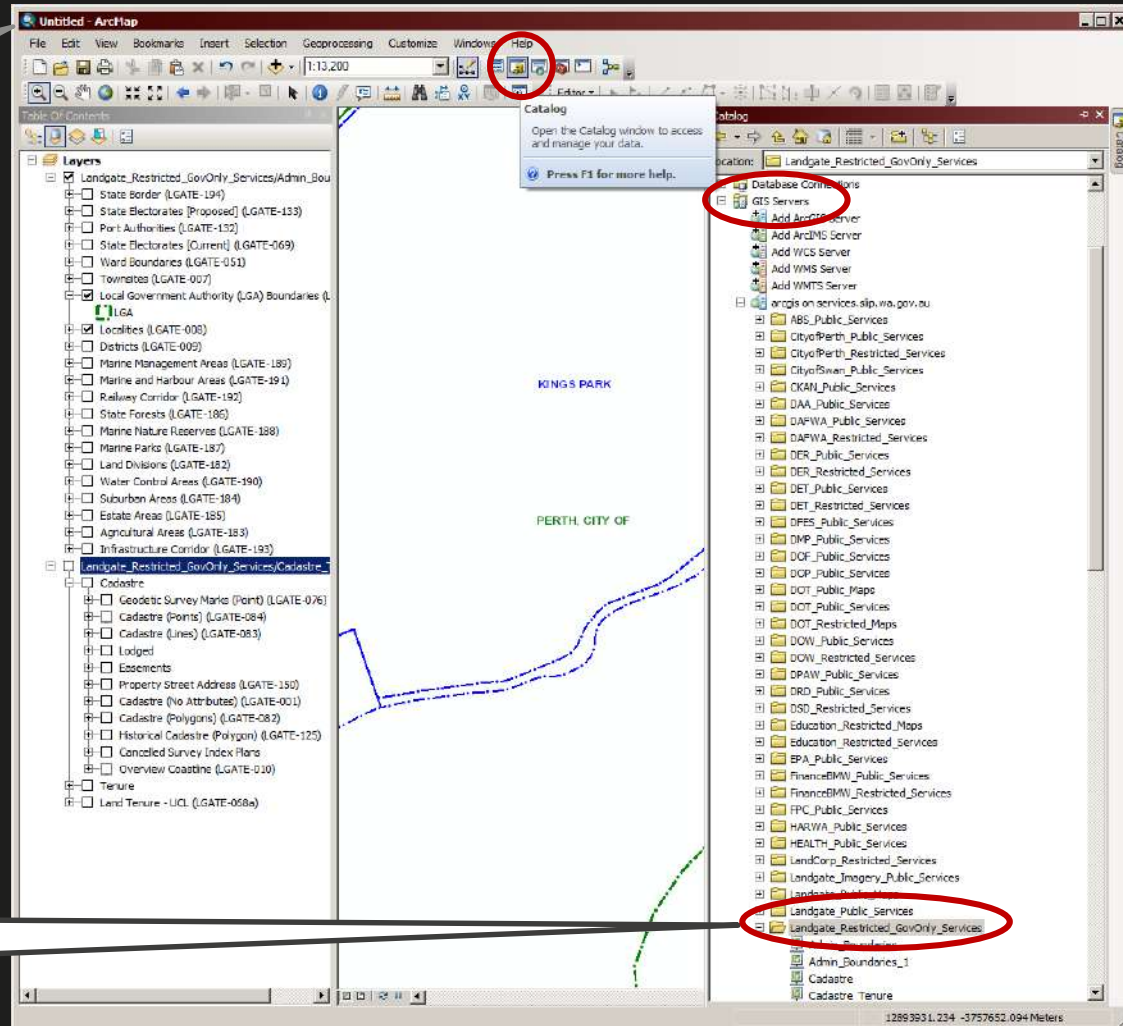
Then add your SLIP subscription account details under Username and Password

## NOTE:

- Esri ArcMap is a professional GIS application.
- This software requires a license and are mostly used for high end GIS functionality

*Contact the slip services team if you would like further instructions for ArcMap*

Browse to find the data.  
Add the SLIP data to your ArcMap GIS application



# SLIP Map Services: using SLIP services in QGIS

## To open SLIP Services in QGIS:

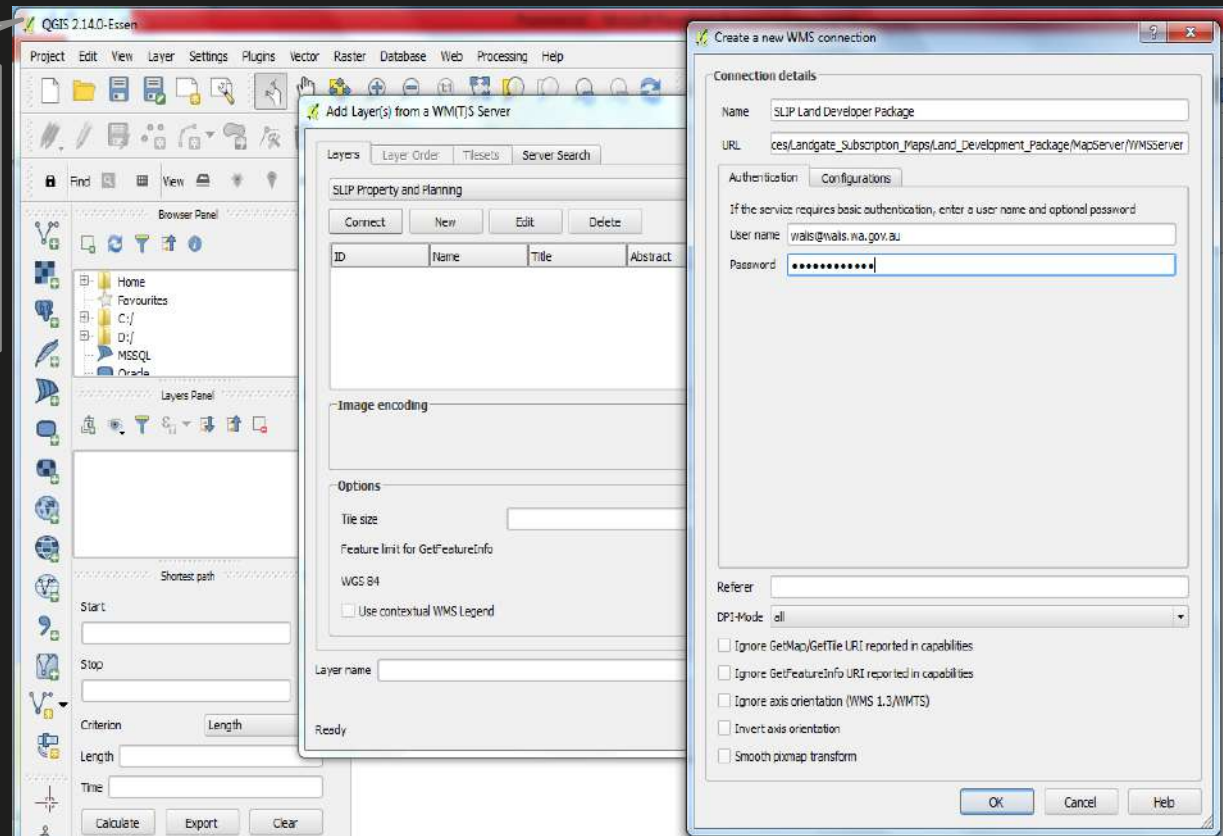
Web Map Services (WMS), Web Feature Services (WFS) and Web Map Tile Services (WMTS) can be added

- Copy the WMS / WFS / WMTS service link from any of the SLIP map services on the website
- In QGIS, select Layer – then Add Layer – and then Add WMS / WFS / WMTS Layer
- Create a New Connection by pasting the WMS / WFS / WMTS Layer Service link (URL) into the space
- Then add the other relevant Connection details and Authentication (your SLIP Username and Password)

### NOTE:

- QGIS is a professional GIS application.
- This software is free

*Contact the slip services team if you would like further instructions for QGIS*



Visit the Open Data webpage:

<http://www.data.wa.gov.au/>

Contact Landgate's Account Managers:

[servicemanagers@landgate.wa.gov.au](mailto:servicemanagers@landgate.wa.gov.au)

Phone: 9273 7373