



Queensland Government

**Department of Environment, Science and Innovation**

Environmental Reports

**Regional Ecosystems**

***Biodiversity Status***

For the selected area of interest

EPM: 28700

## Environmental Reports - General Information

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the input coordinates.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 2020). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

## Important Note to User

Information presented in this report is based upon the Queensland Herbarium & Biodiversity Science's Regional Ecosystem framework. The Biodiversity Status has been used to depict the extent of "Endangered", "Of Concern" and "No Concern at Present" regional ecosystems in all cases, rather than the classes used for the purposes of the *Vegetation Management Act 1999* (VMA). Mapping and figures presented in this document reflect the Queensland Herbarium & Biodiversity Science's Remnant and Pre-clearing Regional Ecosystem Datasets, and not the certified mapping used for the purpose of the VMA.

For matters relevant to vegetation management under the VMA, please refer to the Department of Resources website <https://www.resources.qld.gov.au/>

Please direct queries about these reports to: [Queensland.Herbarium@qld.gov.au](mailto:Queensland.Herbarium@qld.gov.au)

## Disclaimer

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Summary Information

The following table provides an overview of the AOI with respect to selected topographic and environmental themes. Refer to **Map 1** for locality information.

**Table 1: Details for area of interest:**  
**EPM: 28700, with area 9362.86 ha**

Local Government(s)	Catchment(s)	Bioregion(s)	Subregion(s)
Mount Isa City	Leichhardt	Northwest Highlands	Mount Isa Inlier
	Nicholson		

The table below summarizes the extent of remnant vegetation classed as "Endangered", "Of concern" and "No concern at present" regional ecosystems classified by Biodiversity Status within the area of interest (AOI).

**Table 2: Summary table, biodiversity status of regional ecosystems within the AOI**

Biodiversity Status	Area (Ha)	% of AOI
Endangered	0.00	0.00
Of concern	0.00	0.00
No concern at present	9,362.86	100.00
Total remnant vegetation	9,362.86	100.00

Refer to **Map 2** for further information.

## Regional Ecosystems

### 1. Introduction

Regional ecosystems are vegetation communities in a bioregion that are consistently associated with particular combinations of geology, landform and soil (Sattler and Williams 1999). Descriptions of Queensland's Regional ecosystems are available online from the Regional Ecosystem Description Database (REDD). Descriptions are compiled from a broad range of information sources including vegetation, land system and geology survey and mapping and detailed vegetation site data. The regional ecosystem classification and descriptions are reviewed as new information becomes available. A number of vegetation communities may form a single regional ecosystem and may be distinguished by differences in structure or sub-dominant species in the ecologically dominant layer. Vegetation communities with different dominant species in the ecologically dominant layer may be amalgamated into a regional ecosystem if they are not mappable and predictable in the landscape at 1:100 000 scale. Vegetation communities may be mappable at a scale larger than 1:100 000. Vegetation communities within a regional ecosystem are denoted by a letter following the regional ecosystem code (e.g. a, b, c). Vegetation communities and regional ecosystems are amalgamated into a higher level classification of broad vegetation groups (BVGs).

A published methodology for survey and mapping of regional ecosystems across Queensland (Neldner et al 2023) provides further details on regional ecosystem concepts and terminology.

This report provides information on the type, status, and extent of vegetation communities, regional ecosystems and broad vegetation groups present within a user specified area of interest. Please note, for the purpose of this report, the Biodiversity Status is used. This report has not been developed for application of the *Vegetation Management Act 1999* (VMA). Additionally, information generated in this report has been derived from the Queensland Herbarium & Biodiversity Science's Regional Ecosystem Mapping, and not the regulated mapping certified for the purposes of the VMA. If your interest/matter relates to regional ecosystems and the VMA, users should refer to the Department of Resources website <https://www.resources.qld.gov.au/>.

With respect to the Queensland Biodiversity Status,

"Endangered" regional ecosystems are described as those where:

- remnant vegetation is less than 10 per cent of its pre-clearing extent across the bioregion; or 10-30% of its pre-clearing extent remains and the remnant vegetation is less than 10,000 hectares, or
- less than 10 per cent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss\*, or
- 10-30 percent of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss and the remnant vegetation is less than 10,000 hectares; or
- it is a rare\*\* regional ecosystem subject to a threatening process.\*\*\*

"Of concern" regional ecosystems are described as those where:

- the degradation criteria listed above for 'Endangered' regional ecosystems are not met and,
- remnant vegetation is 10-30 per cent of its pre-clearing extent across the bioregion; or more than 20 per cent of its pre-clearing extent remains and the remnant extent is less than 10,000 hectares, or
- 10-30 percent of its pre-clearing extent remains unaffected by moderate degradation and/or biodiversity loss.\*\*\*\*

and "No concern at present" regional ecosystems are described as those where:

- remnant vegetation is over 30 percent of its pre-clearing extent across the bioregion, and the remnant area is greater than 10,000 hectares, and
- the degradation criteria listed above for 'Endangered' or 'Of concern' regional ecosystems are not met.

*\*Severe degradation and/or biodiversity loss is defined as: floristic and/or faunal diversity is greatly reduced but unlikely to recover within the next 50 years even with the removal of threatening processes; or soil surface is severely degraded, for example, by loss of A horizon, surface expression of salinity; surface compaction, loss of organic matter or sheet erosion.*

*\*\*Rare regional ecosystem: pre-clearing extent (<1000 ha); or patch size (<100 ha and of limited total extent across its range).*

*\*\*\*Threatening processes are those that are reducing or will reduce the biodiversity and ecological integrity of a regional ecosystem. For example, clearing, weed invasion, fragmentation, inappropriate fire regime or grazing pressure, or infrastructure development.*

\*\*\*\*Moderate degradation and/or biodiversity loss is defined as: floristic and/or faunal diversity is greatly reduced but unlikely to recover within the next 20 years even with the removal of threatening processes; or soil surface is moderately degraded.

## 2. Remnant Regional Ecosystems

The following table identifies the remnant regional ecosystems and vegetation communities mapped within the AOI and provides their short descriptions, Biodiversity Status, and remnant extent within the selected AOI. Please note, where heterogeneous vegetated patches (mixed patches of remnant vegetation mapped as containing multiple regional ecosystems) occur within the AOI, they have been split and listed as individual regional ecosystems (or vegetation communities where present) for the purposes of the table below. In such instances, associated area figures have been generated based upon the estimated proportion of each regional ecosystem (or vegetation community) predicted to be present within the larger mixed patch.

**Table 3: Remnant regional ecosystems, description and status within the AOI**

Regional Ecosystem	Short Description	BD Status	Area (Ha)	% of AOI
1.11.2a	Eucalyptus leucophloia low open woodland	No concern at present	782.28	8.36
1.3.15	Eucalyptus pruinosa low woodland on recent alluvium	No concern at present	39.24	0.42
1.3.6e	Corymbia apparrerinja, Corymbia terminalis woodland on sandy levees	No concern at present	94.32	1.01
1.5.1	Eucalyptus miniata woodland on red earths on laterised plateaus	No concern at present	3,769.64	40.26
1.5.13	Eucalyptus pruinosa low open woodland on older alluvial and residual soils	No concern at present	134.36	1.44
1.5.3	Eucalyptus leucophloia low open woodland to woodland on sandy and gravelly red soils	No concern at present	66.92	0.71
1.7.1a	Eucalyptus leucophloia low open woodland on silcrete and lateritic surfaces	No concern at present	195.32	2.09
1.7.5a	Acacia shirleyi low woodland on lateritic scarps and hills	No concern at present	923.52	9.86
1.7.5b	Acacia shirleyi low woodland on lateritic scarps and hills	No concern at present	322.48	3.44
1.7.7a	Corymbia capricornia +/- Eucalyptus leucophloia or E. miniata low open woodland on silcrete	No concern at present	654.53	6.99
1.7.7b	Corymbia capricornia +/- Eucalyptus leucophloia or E. miniata low open woodland on silcrete	No concern at present	2,380.25	25.42

Refer to **Map 2** for further information. **Map 3** also provides a visual estimate of the distribution of regional ecosystems present before clearing.

**Table 4** provides further information in regards to the remnant regional ecosystems present within the AOI. Specifically, the extent of remnant vegetation remaining within the bioregion, the 1:1,000,000 broad vegetation group (BVG) classification, whether the regional ecosystem is identified as a wetland, and extent of representation in Queensland's Protected Area Estate. For a description of the vegetation communities within the AOI and classified according to the 1:1,000,000 BVG, refer to **Table 6**.

**Table 4: Remnant regional ecosystems within the AOI, additional information**

Regional Ecosystem	Remnant Extent	BVG (1 Million)	Wetland	Representation in protected estate
1.11.2a	Pre-clearing 1245000 ha; Remnant 2021 1239000 ha	19a	Not a Wetland	Low
1.3.15	Pre-clearing 45000 ha; Remnant 2021 45000 ha	19c	Riverine	Low
1.3.6e	Pre-clearing 76000 ha; Remnant 2021 76000 ha	19b	Riverine	Low
1.5.1	Pre-clearing 16000 ha; Remnant 2021 16000 ha	14b	Not a Wetland	Medium
1.5.13	Pre-clearing 320000 ha; Remnant 2021 319000 ha	19c	Not a Wetland	Low
1.5.3	Pre-clearing 290000 ha; Remnant 2021 289000 ha	19a	Not a Wetland	Low
1.7.1a	Pre-clearing 421000 ha; Remnant 2021 420000 ha	19a	Not a Wetland	High
1.7.5a	Pre-clearing 111000 ha; Remnant 2021 110000 ha	24a	Not a Wetland	Low
1.7.5b	Pre-clearing 111000 ha; Remnant 2021 110000 ha	24a	Not a Wetland	Low
1.7.7a	Pre-clearing 575000 ha; Remnant 2021 575000 ha	19a	Not a Wetland	High
1.7.7b	Pre-clearing 575000 ha; Remnant 2021 575000 ha	19a	Not a Wetland	High

*Representation in Protected Area Estate: High greater than 10% of pre-clearing extent is represented; Medium 4 - 10% is represented; Low less than 4% is represented, No representation.*

The distribution of mapped wetland systems within the area of interest is displayed in **Map 6**.

The following table lists known special values associated with a regional ecosystem type.

**Table 5: Remnant regional ecosystems within the AOI, special values**

Regional Ecosystem	Special Values
1.11.2a	1.11.2: Potential habitat for NCA listed species: <i>Eucalyptus nudicaulis</i> , <i>Ipomoea antonschmidii</i> , <i>Solanum carduiforme</i> , <i>Trachymene glandulosa</i> .
1.3.15	None
1.3.6e	1.3.6: Significant sub-regional fauna habitat due to the number and size of trees with hollows. 1.3.6b: Significant sub-regional fauna habitat due to the number and size of trees with hollows. 1.3.6e: Significant sub-regional fauna habitat due to the number and size of trees with hollows.
1.5.1	None
1.5.13	None
1.5.3	None
1.7.1a	1.7.1: Potential habitat for NCA listed species: <i>Solanum carduiforme</i> , <i>Trachymene glandulosa</i> .
1.7.5a	None
1.7.5b	None
1.7.7a	1.7.7: Potential habitat for NCA listed species: <i>Ipomoea antonschmidii</i> .
1.7.7b	1.7.7: Potential habitat for NCA listed species: <i>Ipomoea antonschmidii</i> .

### 3. Remnant Regional Ecosystems by Broad Vegetation Group

BVGs are a higher-level grouping of vegetation communities. Queensland encompasses a wide variety of landscapes across temperate, wet and dry tropics and semi-arid climatic zones. BVGs provide an overview of vegetation communities across the state or a bioregion and allow comparison with other states. There are three levels of BVGs which reflect the approximate scale at which they are designed to be used: the 1:5,000,000 (national), 1:2,000,000 (state) and 1:1,000,000 (regional) scales.

A comprehensive description of BVGs is available at: <https://publications.qld.gov.au/dataset/redd/resource/>

The following table provides a description of the 1:1,000,000 BVGs present and their associated extent within the AOI.

**Table 6: Broad vegetation groups (1 million) within the AOI**



BVG (1 Million)	Description	Area (Ha)	% of AOI
14b	Woodlands dominated by <i>Eucalyptus tetrodonta</i> (Darwin stringybark) (or <i>E. megasepala</i> (Melville Island bloodwood)) or <i>E. chartaboma</i> (or <i>E. miniata</i> (Darwin woollybutt)), with <i>Corymbia clarksoniana</i> (grey bloodwood) on erosional surfaces, residual sands and occasionally alluvial plains.	3,769.64	40.26
19a	Low open woodlands dominated by <i>Eucalyptus leucophloia</i> (snappy gum) with <i>Triodia</i> spp. dominated ground layer, mainly on hills and ranges.	4,079.31	43.57
19b	Low open woodlands dominated by <i>Eucalyptus leucophylla</i> (Cloncurry box) or less extensively <i>Corymbia terminalis</i> (long-fruited bloodwood) low open woodlands and related associations, mainly lower slopes and valleys.	94.32	1.01
19c	Low open woodlands dominated by <i>Eucalyptus pruinosa</i> low open woodlands on sandplains, outwash areas and lateritised surfaces.	173.60	1.85
24a	Low woodlands to tall shrublands dominated by <i>Acacia</i> spp. on residuals. Species include <i>A. shirleyi</i> (lancewood), <i>A. catenulata</i> (bendee), <i>A. microsperma</i> (bowyakka), <i>A. clivicola</i> , <i>A. sibirica</i> , <i>A. rhodoxylon</i> (rosewood) and <i>A. leptostachya</i> (Townsville wattle).	1,246.00	13.31

Refer to **Map 4** for further information. **Map 5** also provides a representation of the distribution of vegetation communities as per the 1:5,000,000 BVG believed to be present prior to European settlement.

#### 4. Technical and BioCondition Benchmark Descriptions

Technical descriptions provide a detailed description of the full range in structure and floristic composition of regional ecosystems (e.g. 11.3.1) and their component vegetation communities (e.g. 11.3.1a, 11.3.1b). See: <http://www.qld.gov.au/environment/plants-animals/plants/ecosystems/technical-descriptions/>

The descriptions are compiled using site survey data from the Queensland Herbarium & Biodiversity Science's QBEIS database. Distribution maps, representative images (if available) and the pre-clearing and remnant extent (hectares) of each vegetation community derived from the regional ecosystem mapping data are included. The technical descriptions should be used in conjunction with the fields from the regional ecosystem description database (REDD) for a full description of the regional ecosystem.

Technical descriptions include data on canopy height, canopy cover and native plant species composition of the predominant layer, which are attributes relevant to assessment of the remnant status of vegetation under the *Vegetation Management Act 1999*. However, as technical descriptions reflect the full range in structure and floristic composition across the climatic, natural disturbance and geographic range of the regional ecosystem, local reference sites should be used for remnant assessment where possible (Neldner et al. 2023 (PDF)\* section 3.3 of: [https://www.qld.gov.au/\\_data/assets/pdf\\_file/0033/459186/methodology-mapping-surveying-v7.pdf](https://www.qld.gov.au/_data/assets/pdf_file/0033/459186/methodology-mapping-surveying-v7.pdf)

The technical descriptions are subject to review and are updated as additional data becomes available.

When conducting a BioCondition assessment, these technical descriptions should be used in conjunction with BioCondition benchmarks for the specific regional ecosystem, or component vegetation community. <http://www.qld.gov.au/environment/plants-animals/biodiversity/benchmarks/>

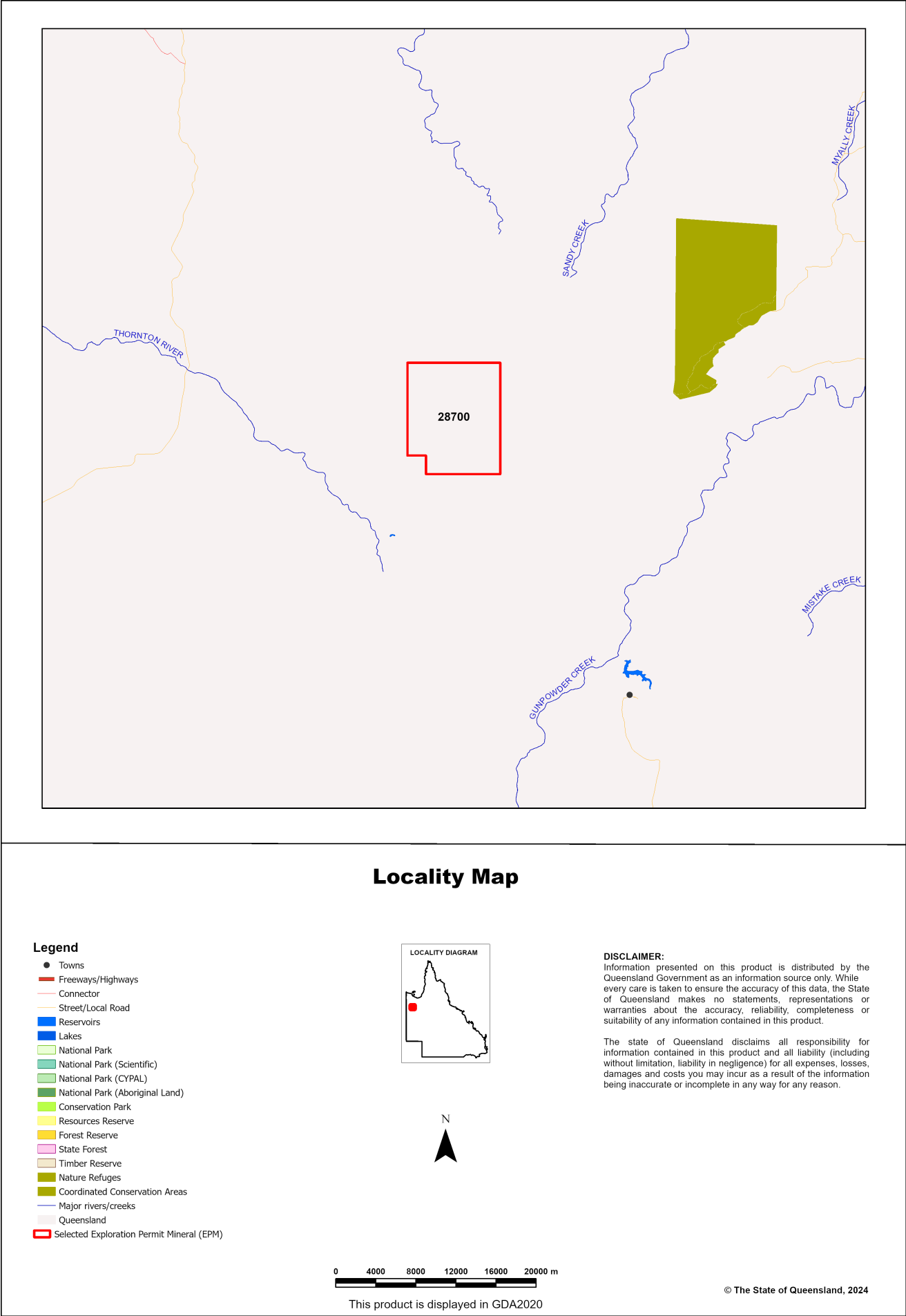
Benchmarks are based on a combination of quantitative and qualitative information and should be used as a guide only. Benchmarks are specific to one regional ecosystem vegetation community, however, the natural variability in structure and floristic composition under a range of climatic and natural disturbance regimes has been considered throughout the geographic extent of the regional ecosystem. Local reference sites should be used for this spatial and temporal (seasonal and annual) variability.

**Table 7: List of remnant regional ecosystems within the AOI for which technical and biocondition benchmark descriptions are available**

Regional ecosystems mapped as within the AOI	Technical Descriptions	Biocondition Benchmarks
1.11.2a	Available	Not currently available
1.3.15	Available	Not currently available
1.3.6e	Available	Not currently available
1.5.1	Available	Not currently available
1.5.13	Available	Not currently available
1.5.3	Available	Not currently available
1.7.1a	Available	Not currently available
1.7.5a	Available	Not currently available
1.7.5b	Available	Not currently available
1.7.7a	Available	Not currently available
1.7.7b	Available	Not currently available

Maps

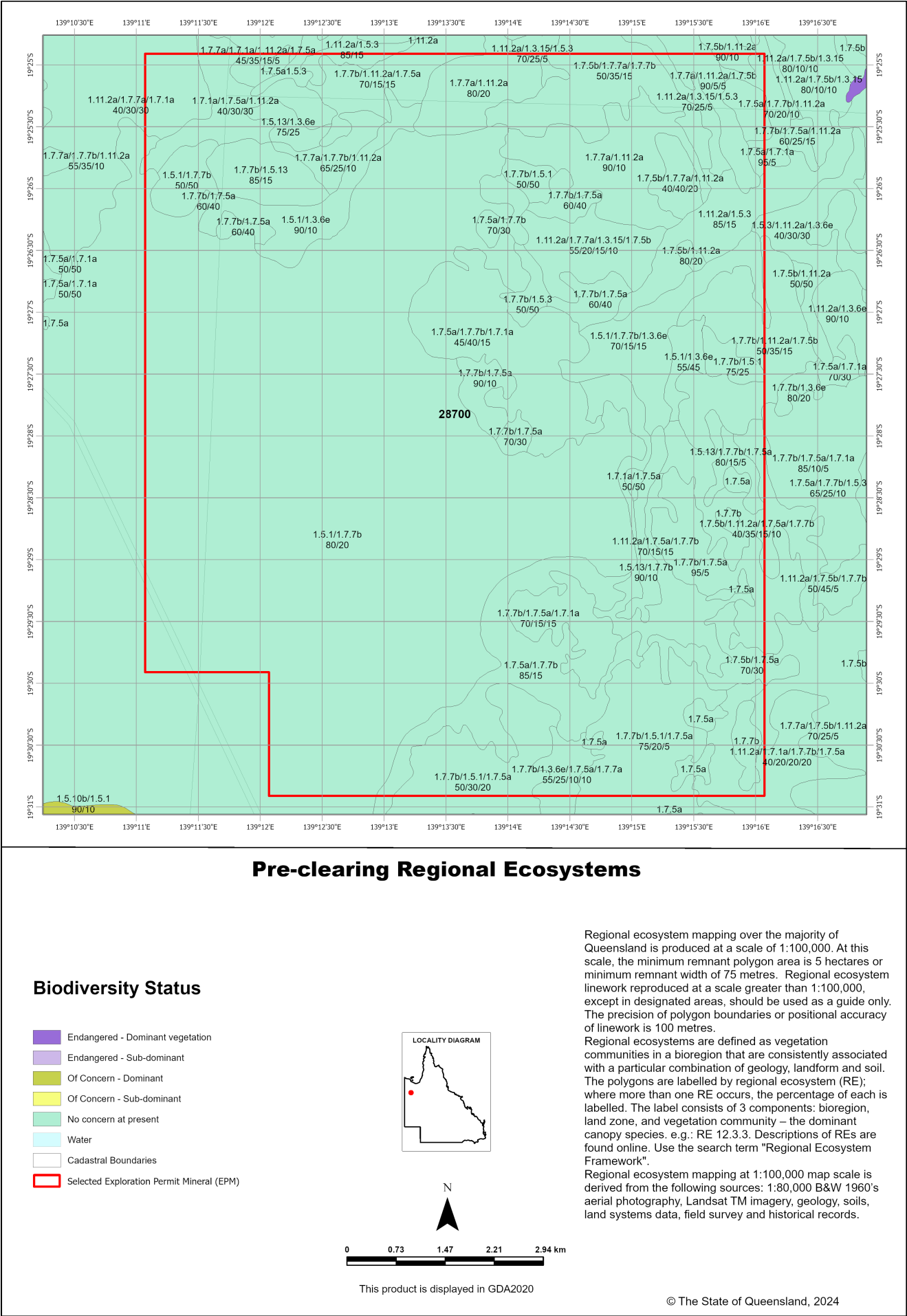
Map 1 - Location



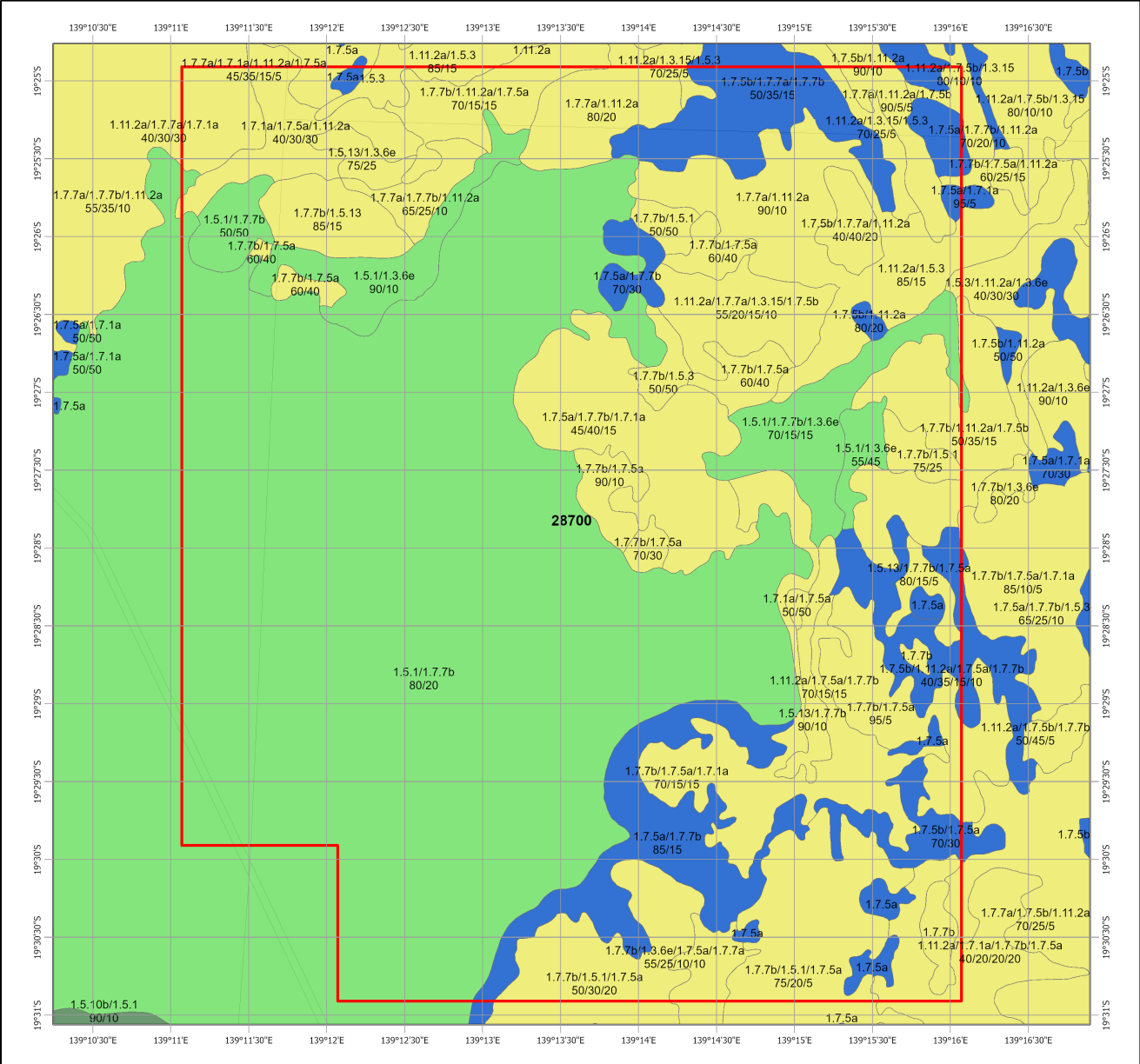
The map displays the study area with bathymetry and depth contours. A red line indicates the survey track. Depth soundings are provided in meters (m) and fathoms (f). The map includes a grid of latitude and longitude coordinates. The survey track starts at approximately 19°10'N, 109°10'E, proceeds east to 109°16'E, then south to 19°28'N, and finally west to 109°12'E. The map shows various depth contours and soundings, including a prominent 28700m depth contour. The soundings are labeled with values such as 1.7.7a/1.7.1a/1.1.2a/1.7.5a, 1.7.5a, 1.1.2a/1.5.3, 1.1.2a, 1.1.2a/1.3.15/1.5.3, 1.7.5b/1.1.2a, 1.1.2a/1.7.5b/1.3.15, 1.7.5b, 1.1.2a/1.7.7a/1.7.1a, 1.7.1a/1.7.5a/1.1.2a, 1.5.13/1.3.6e, 75/25, 1.7.7a/1.7.7b/1.1.2a, 70/15/15, 1.7.7a/1.1.2a, 80/20, 1.7.7a/1.7.7b/1.7.5a, 50/35/15, 1.7.7a/1.1.2a/1.7.5b, 90/10, 1.1.2a/1.3.15/1.5.3, 70/25/5, 1.7.5a, 1.7.7b/1.1.2a, 70/20/10, 1.1.2a/1.7.5b/1.3.15, 80/10/10, 1.7.7a/1.7.7b/1.1.2a, 55/35/10, 1.5.1/1.7.7b, 50/50, 1.7.7b/1.5.13, 85/15, 1.7.7a/1.7.7b/1.1.2a, 65/25/10, 1.7.7b/1.7.5a, 60/40, 1.5.1/1.3.6e, 90/10, 1.7.7b/1.7.5a, 60/40, 1.7.7b/1.5.1, 50/50, 1.7.7b/1.7.5a, 60/40, 1.7.5a/1.7.7b, 70/30, 1.1.2a/1.7.7a/1.3.15/1.7.5b, 55/20/15/10, 1.7.5b/1.1.2a, 80/20, 1.1.2a/1.5.3, 85/15, 1.5.3/1.1.2a/1.3.6e, 40/30/30, 1.7.5b/1.1.2a, 50/50, 1.1.2a/1.3.6e, 90/10, 1.7.5a/1.7.1a, 50/50, 1.7.7b/1.7.5a, 60/40, 1.7.7b/1.5.3, 50/50, 1.7.5a/1.7.7b/1.7.1a, 45/40/15, 1.5.1/1.7.7b/1.3.6e, 70/15/15, 1.5.1/1.3.6e, 55/45, 1.7.7b/1.5.1, 75/25, 1.7.7b/1.7.5a, 70/30, 1.7.7b/1.3.6e, 80/20, 1.5.13/1.7.7b/1.7.5a, 80/15/5, 1.7.7b/1.7.5a/1.7.1a, 85/10/5, 1.7.5a/1.7.7b/1.5.3, 65/25/10, 1.7.7b, 1.7.7b/1.1.2a/1.7.5a/1.7.7b, 40/35/15/10, 1.1.2a/1.7.5a/1.7.7b, 70/15/15, 1.5.13/1.7.7b, 90/10, 1.7.7b/1.7.5a, 95/5, 1.7.5a, 1.1.2a/1.7.5b/1.7.7b, 50/45/5, 1.7.5a, 1.7.7b/1.7.5a, 70/30, 1.7.7a/1.7.5b/1.1.2a, 70/25/5, 1.1.2a/1.7.1a/1.7.7b/1.7.5a, 40/20/20/20, 1.7.7b/1.3.6e/1.7.5a/1.7.7a, 55/25/10/10, 1.7.7b/1.5.1/1.7.5a, 75/20/5, 1.7.5a, 1.7.5a, 1.5.10b/1.5.1, 90/10, 1.7.5a.

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Map 3 - Pre-clearing regional ecosystems



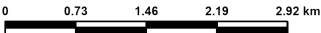
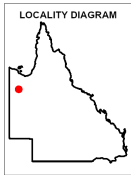
Map 4 - Remnant 2021 regional ecosystems by BVG (5M)



Remnant 2021 Regional Ecosystems coloured by Broad Vegetation Groups

Broad Vegetation Groups  
BVG5M Description (BVG1M codes)

- 1. Rainforests and scrubs (1-7b)
- 2. Wet eucalypt open forests (8-8b)
- 3. Eucalypt woodlands to open forests (mainly eastern Qld) (9-15b)
- 4. Eucalypt open forests to woodlands on floodplains (16-16d)
- 5. Eucalypt dry woodlands on inland depositional plains (17-18d)
- 6. Eucalypt low open woodlands usually with spinifex understorey (19-19d)
- 7. Callitris woodland - open forests (20a)
- 8. Melaleuca open woodlands on depositional plains (21-22c)
- 9. Acacia neura (mulga) dominated open forests, woodlands and shrublands (23-23b)
- 10. Other acacia dominated open forests, woodlands and shrublands (24-26a)
- 11. Mixed species woodlands, open woodland - (inland bioregions) includes wooded downs (27-27c)
- 12. Other coastal communities or heaths (28-29b)
- 13. Tussock grasslands, forblands (30-32b)
- 14. Hummock grasslands (33-33b)
- 15. Wetlands (swamps and lakes) (34-34g)
- 16. Mangroves and saltmarshes (35-35b)
- Non-remnant vegetation, cultivated or built environment
- Water
- Cadastral Boundaries
- Selected Exploration Permit Mineral (EPM)

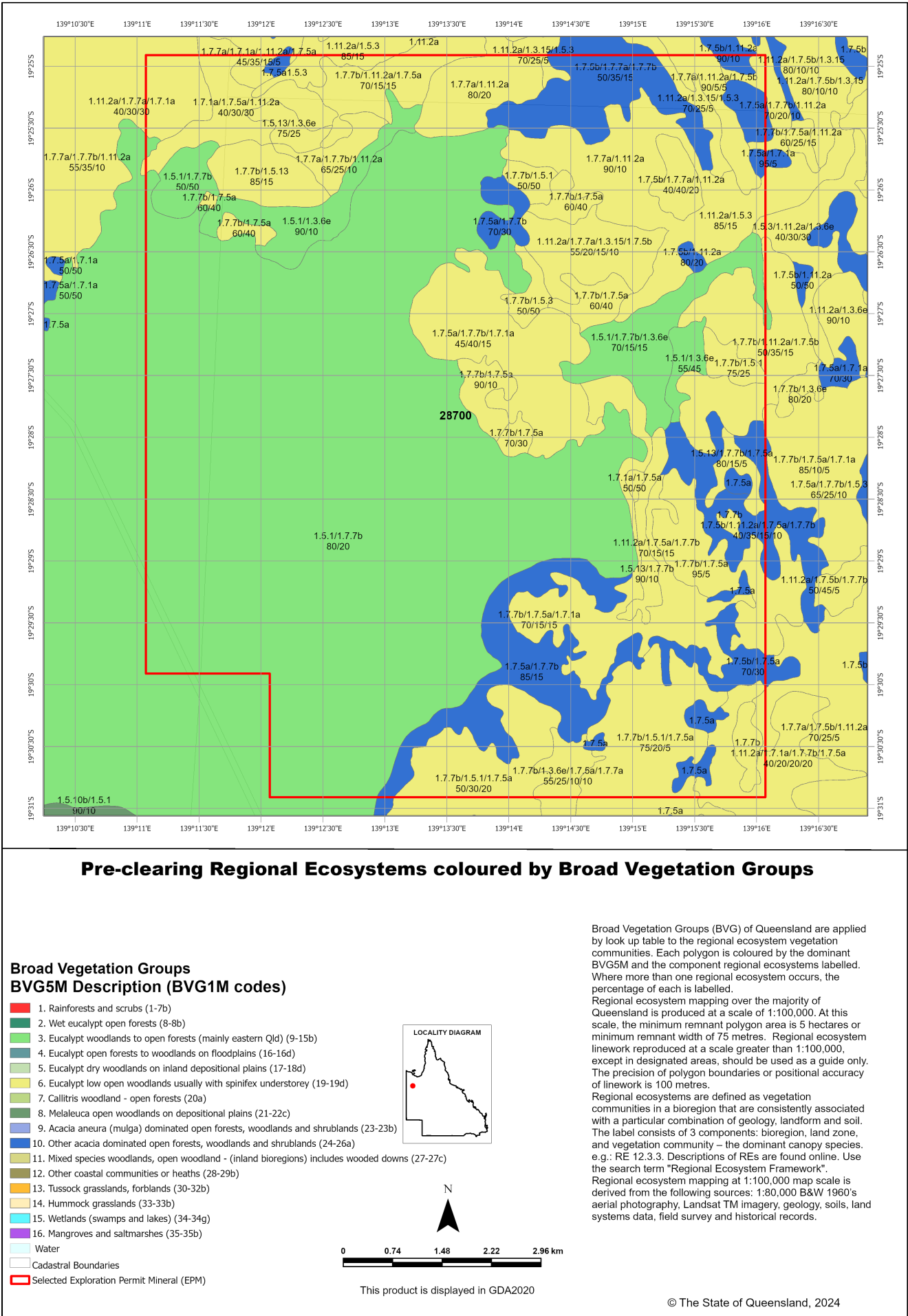


This product is displayed in GDA2020

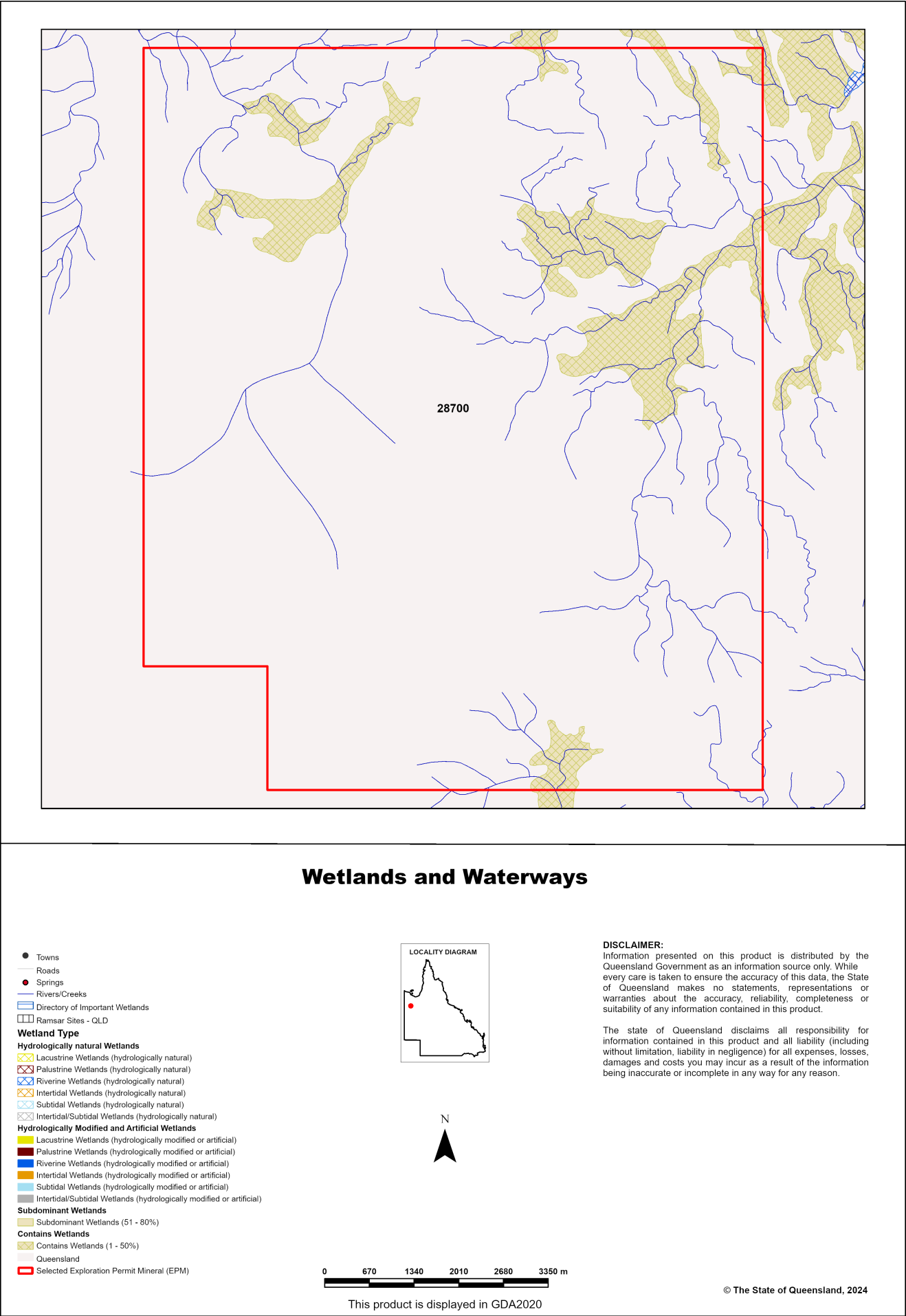
Broad Vegetation Groups (BVG) of Queensland are applied by look up table to the regional ecosystem vegetation communities. Each polygon is coloured by the dominant BVG5M and the component regional ecosystems labelled. Where more than one regional ecosystem occurs, the percentage of each is labelled. Regional ecosystem mapping over the majority of Queensland is produced at a scale of 1:100,000. At this scale, the minimum remnant polygon area is 5 hectares or minimum remnant width of 75 metres. Regional ecosystem linework reproduced at a scale greater than 1:100,000, except in designated areas, should be used as a guide only. The precision of polygon boundaries or positional accuracy of linework is 100 metres. Regional ecosystems are defined as vegetation communities in a bioregion that are consistently associated with a particular combination of geology, landform and soil. The label consists of 3 components: bioregion, land zone, and vegetation community – the dominant canopy species, e.g.: RE 12.3.3. Descriptions of REs are found online. Use the search term "Regional Ecosystem Framework". Regional ecosystem mapping at 1:100,000 map scale is derived from the following sources: 1:80,000 B&W 1960's aerial photography, Landsat TM imagery, geology, soils, land systems data, field survey and historical records. Remnant woody vegetation is defined as vegetation that has not been cleared or vegetation that has been cleared but where the dominant canopy has >70% of the height and >50% of the cover relative to the undisturbed height and cover of that stratum and is dominated by species characteristic of the vegetation's undisturbed canopy. Non-remnant vegetation includes regrowth and disturbed native vegetation.



Map 5 - Pre-clearing regional ecosystems by BVG (5M)



Map 6 - Wetlands and waterways





## Links and Other Information Sources

The Department of Environment, Science and Innovation's Website -

<http://www.qld.gov.au/environment/plants-animals/plants/ecosystems/> provides further information on the regional ecosystem framework, including access to links to the Regional Ecosystem Database, Broad Vegetation Group Definitions, Regional Ecosystem and Land zone descriptions.

Descriptions of the broad vegetation groups of Queensland can be downloaded from:

<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/broad-vegetation>

The methodology for mapping regional ecosystems can be downloaded from:

[https://www.qld.gov.au/\\_data/assets/pdf\\_file/0033/459186/methodology-mapping-surveying-v7.pdf](https://www.qld.gov.au/_data/assets/pdf_file/0033/459186/methodology-mapping-surveying-v7.pdf)

Technical descriptions for regional ecosystems can be obtained from:

<http://www.qld.gov.au/environment/plants-animals/plants/ecosystems/technical-descriptions/>

Benchmarks can be obtained from: <http://www.qld.gov.au/environment/plants-animals/biodiversity/benchmarks/>

For further information associated with the remnant regional ecosystem dataset used by this report, refer to the metadata associated with the Biodiversity status of pre-clearing and Remnant Regional Ecosystems of Queensland dataset (version listed in **Appendix 1**) which is available through the Queensland Spatial Catalogue, [Queensland Spatial Catalogue : Queensland Government \(information.qld.gov.au\)](http://www.qld.gov.au/spatial-catalogue)

The Queensland Globe is a mapping and data application. As an interactive online tool, Queensland Globe allows you to view and explore Queensland maps, imagery (including up-to-date satellite images) and other spatial data, including regional ecosystem mapping. To further view and explore regional ecosystems over an area of interest, access the Biota Globe (a component of the Queensland Globe). The Queensland Globe can be accessed via the following link:

<https://qldglobe.information.qld.gov.au/>

## References

Neldner, V.J., Niehus, R.E., Wilson, B.A., McDonald, W.J.F., Ford, A.J. and Accad, A. (2023). The Vegetation of Queensland. Descriptions of Broad Vegetation Groups. Version 6.0. Queensland Herbarium, Department of Environment and Science.

<https://publications.qld.gov.au/dataset/redd/resource/78209e74-c7f2-4589-90c1-c33188359086>

Neldner, V.J., Wilson, B.A., Dillewaard, H.A., Ryan, T.S., Butler, D.W., McDonald, W.J.F., Richter, D., Addicott, E.P. and Appelman, C.N. (2023) Methodology for survey and mapping of regional ecosystems and vegetation communities in Queensland. Version 7.0. Updated December 2023. Queensland Herbarium, Queensland Department of Environment, Science and Innovation, Brisbane.

[https://www.qld.gov.au/\\_data/assets/pdf\\_file/0033/459186/methodology-mapping-surveying-v7.pdf](https://www.qld.gov.au/_data/assets/pdf_file/0033/459186/methodology-mapping-surveying-v7.pdf)

Sattler, P.S. and Williams, R.D. (eds) (1999). *The Conservation Status of Queensland's Bioregional Ecosystems*. Environmental Protection Agency, Brisbane.

## Appendices

### Appendix 1 - Source Data

**The dataset listed below is available for download from:**

<http://www.qld.gov.au/environment/plants-animals/plants/ecosystems/download/>

- Regional Ecosystem Description Database

**The datasets listed below are available for download from:**

[Queensland Spatial Catalogue : Queensland Government \(information.qld.gov.au\)](https://www.qld.gov.au/information/spatial/catalogue)

- Biodiversity status of pre-clearing and 2021 remnant regional ecosystems of Queensland
- Pre-clearing Vegetation Communities and Regional Ecosystems of Queensland
- Queensland Wetland Data Version - Wetland lines
- Queensland Wetland Data Version - Wetland points
- Queensland Wetland Data Version - Wetland areas
- Pre-clearing broad vegetation groups of Queensland
- Remnant 2021 broad vegetation groups of Queensland

**Appendix 2 - Acronyms and Abbreviations**

AOI	- Area of Interest
GIS	- Geographic Information System
RE	- Regional Ecosystem
REDD	- Regional Ecosystem Description Database
VMA	- <i>Vegetation Management Act 1999</i>