










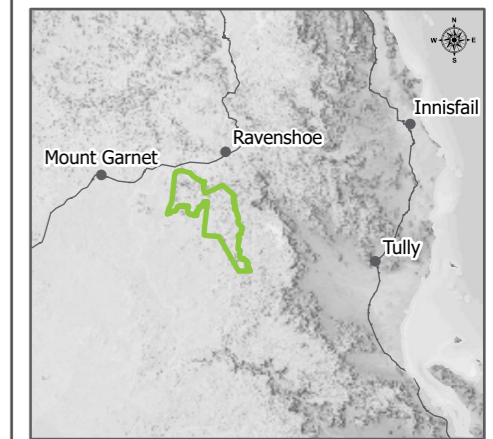


**Chalumbin Wind Farm**  
Project Layout  
Sheet 2 of 4

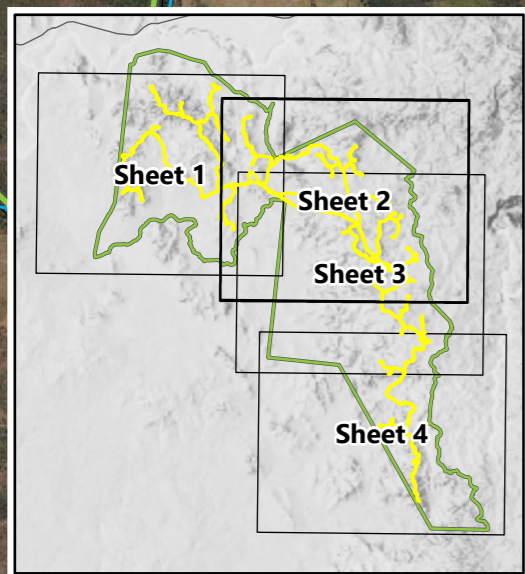
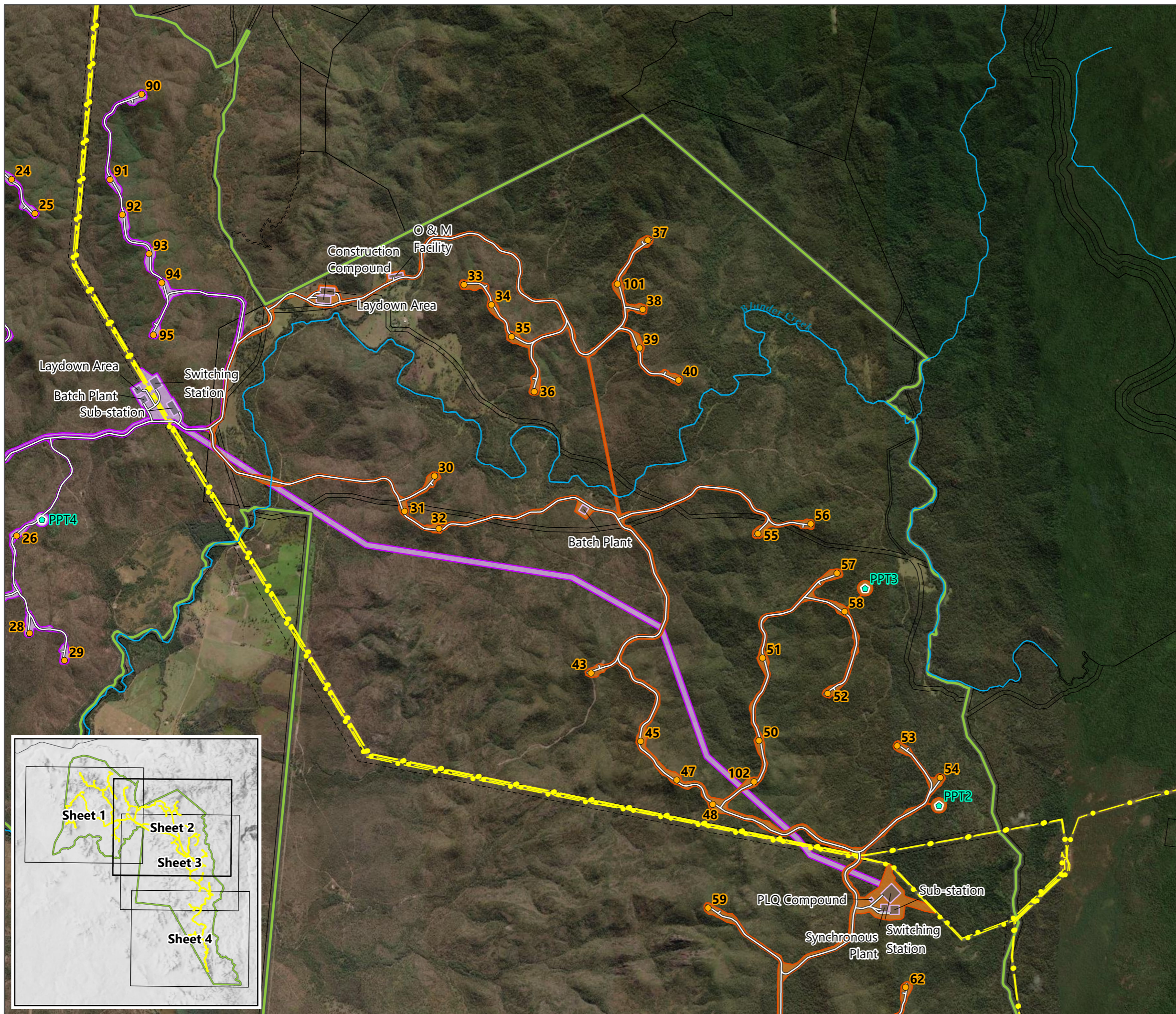
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-  Turbine
-  Met-mast
-  Access Road
-  Facilities
- Clearance Envelope**
-  Stage 1
-  Stage 2
-  Existing HV Transmission Line
-  Watercourse
-  Lot Boundary
-  Easement

Date: 14/10/2022  
Project: EPU-004

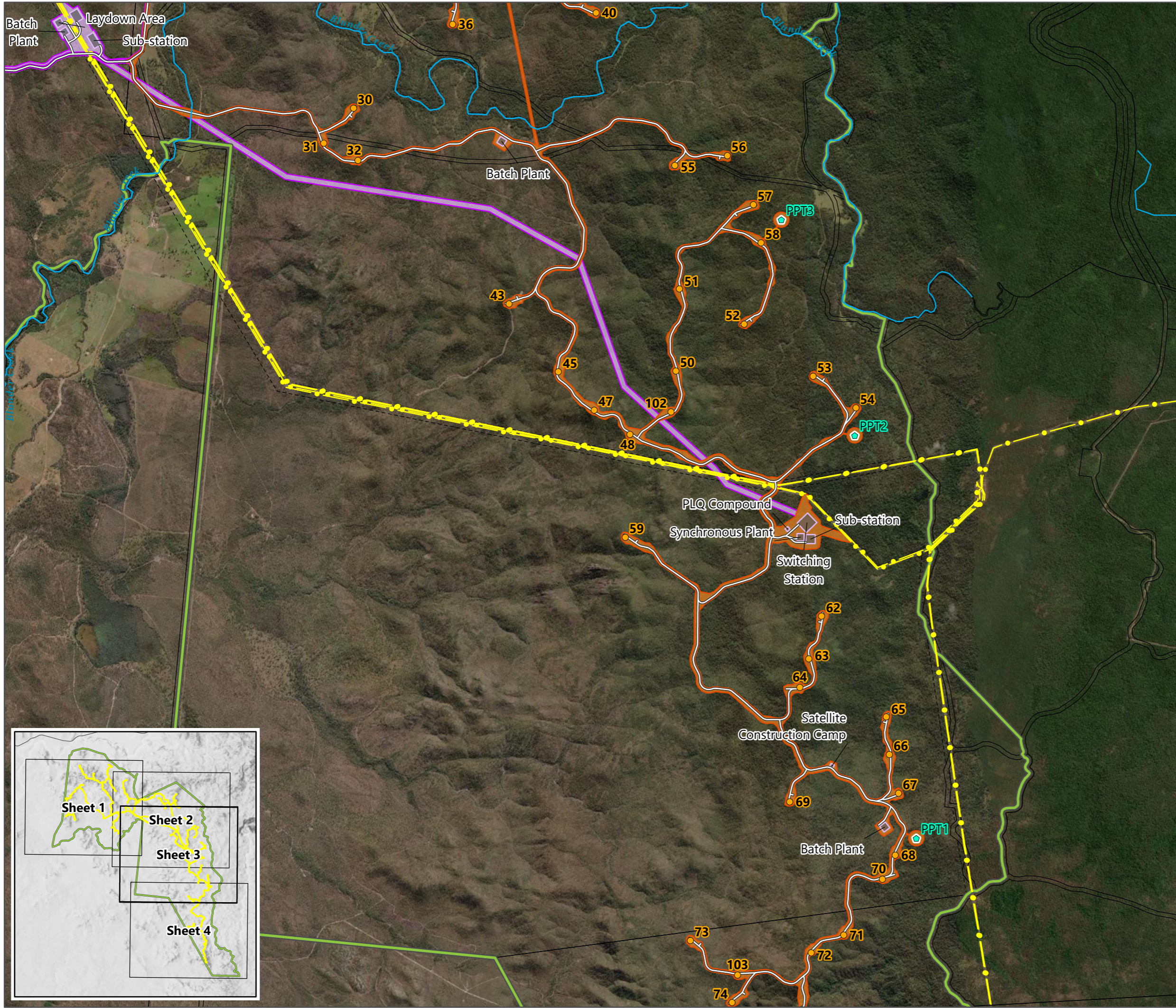
Author: TOD  
Reviewed: NOD














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Digital Cadastral Database - Department of Resources (2022)  
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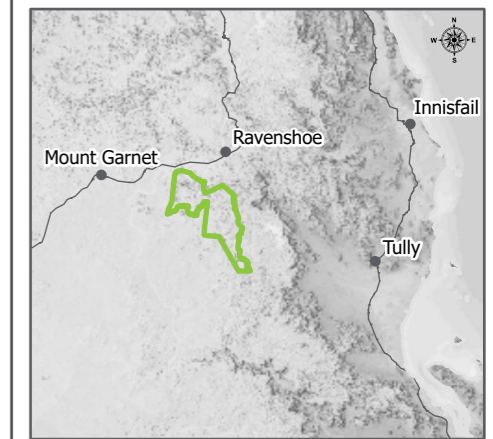
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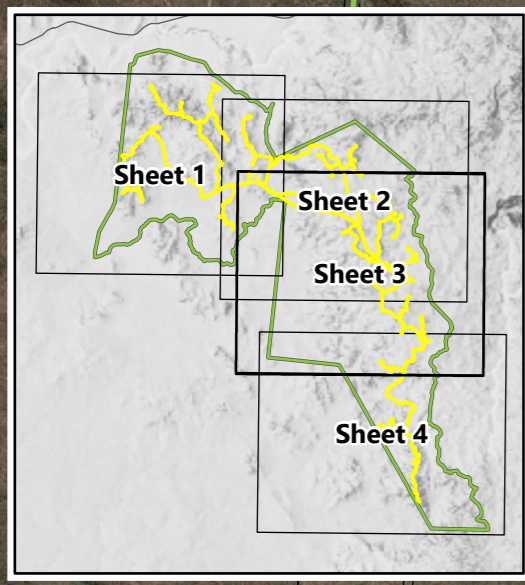
**Chalumbin Wind Farm**  
 Project Layout  
 Sheet 3 of 4

-  Project Area Boundary
-  Turbine
-  Met-mast
-  Access Road
-  Facilities
- Clearance Envelope**
-  Stage 1
-  Stage 2
-  Existing HV Transmission Line
-  Watercourse
-  Lot Boundary
-  Easement

Date: 14/10/2022      Author: TOD  
 Project: EPU-004      Reviewed: NOD














Scale: 1:50,000@A3  
 Data Source(s):  
 Digital Cadastral Database - Department of Resources (2022)  
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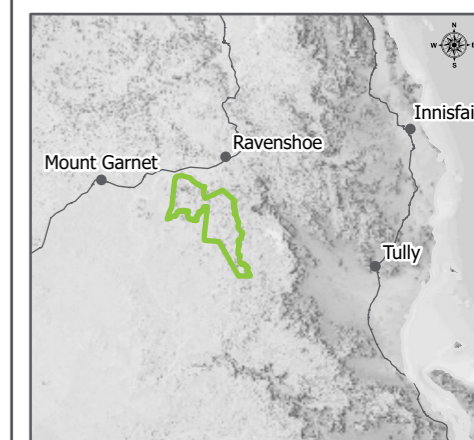
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**Chalumbin Wind Farm**  
Project Layout  
Sheet 4 of 4

-  Project Area Boundary
-  Turbine
-  Met-mast
-  Access Road
-  Facilities
- Clearance Envelope
-  Stage 1
-  Stage 2
-  Existing HV Transmission Line
-  Watercourse
-  Lot Boundary
-  Easement

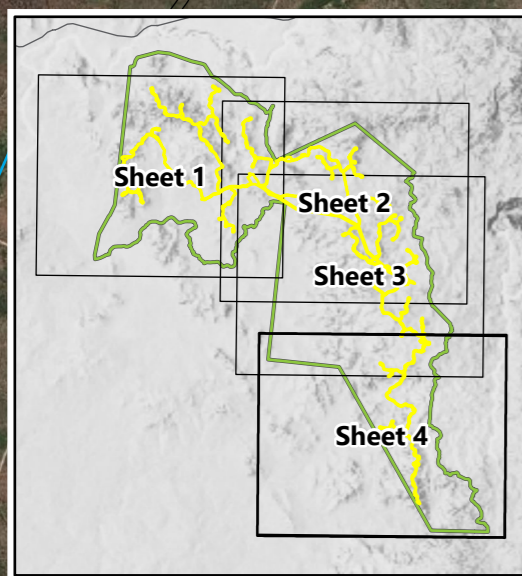
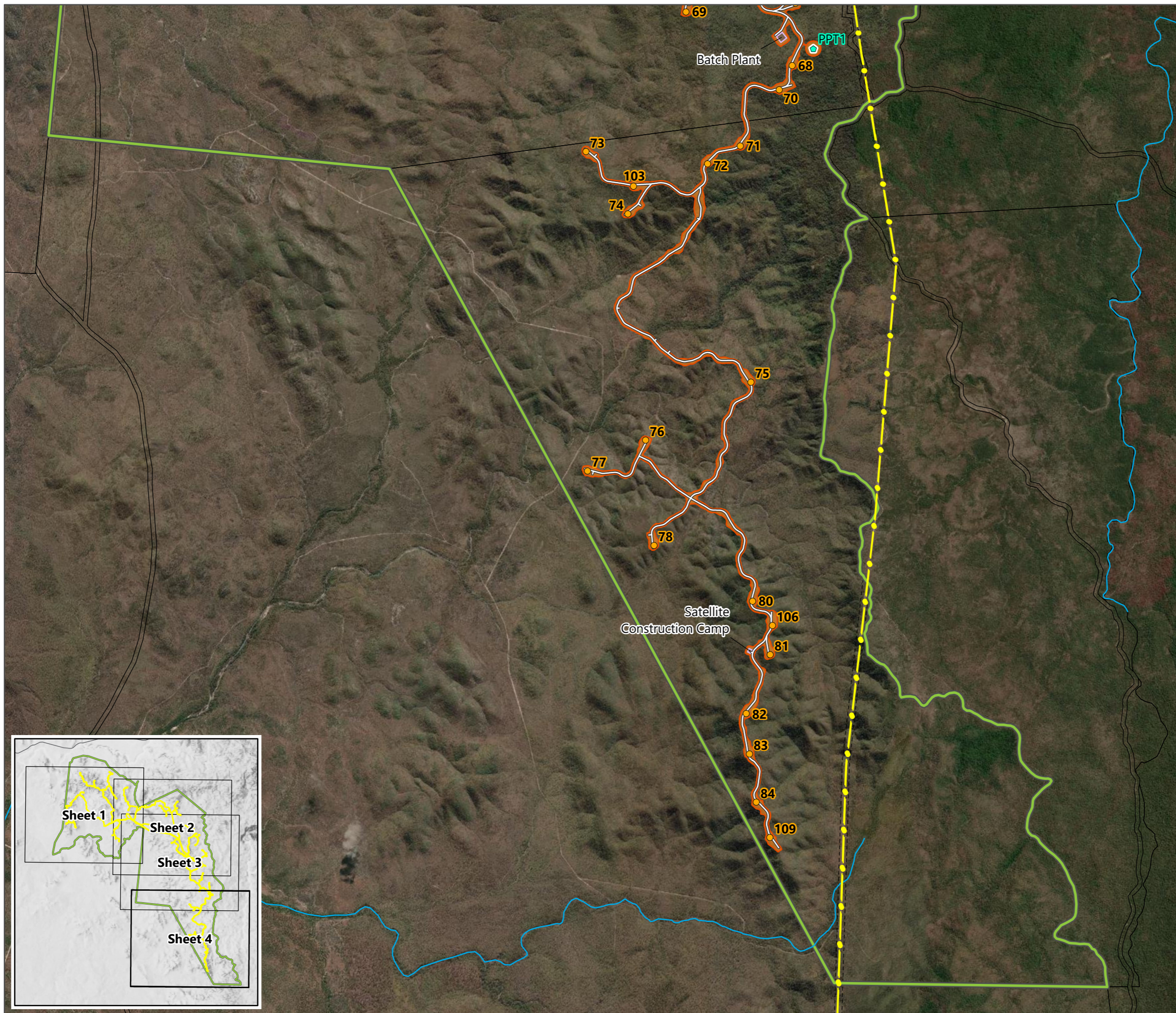
Date: 14/10/2022  
Project: EPU-004

Author: TOD  
Reviewed: NOD



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Data Source(s):  
Digital Cadastral Database - Department of Resources (2022)  
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## Appendix C

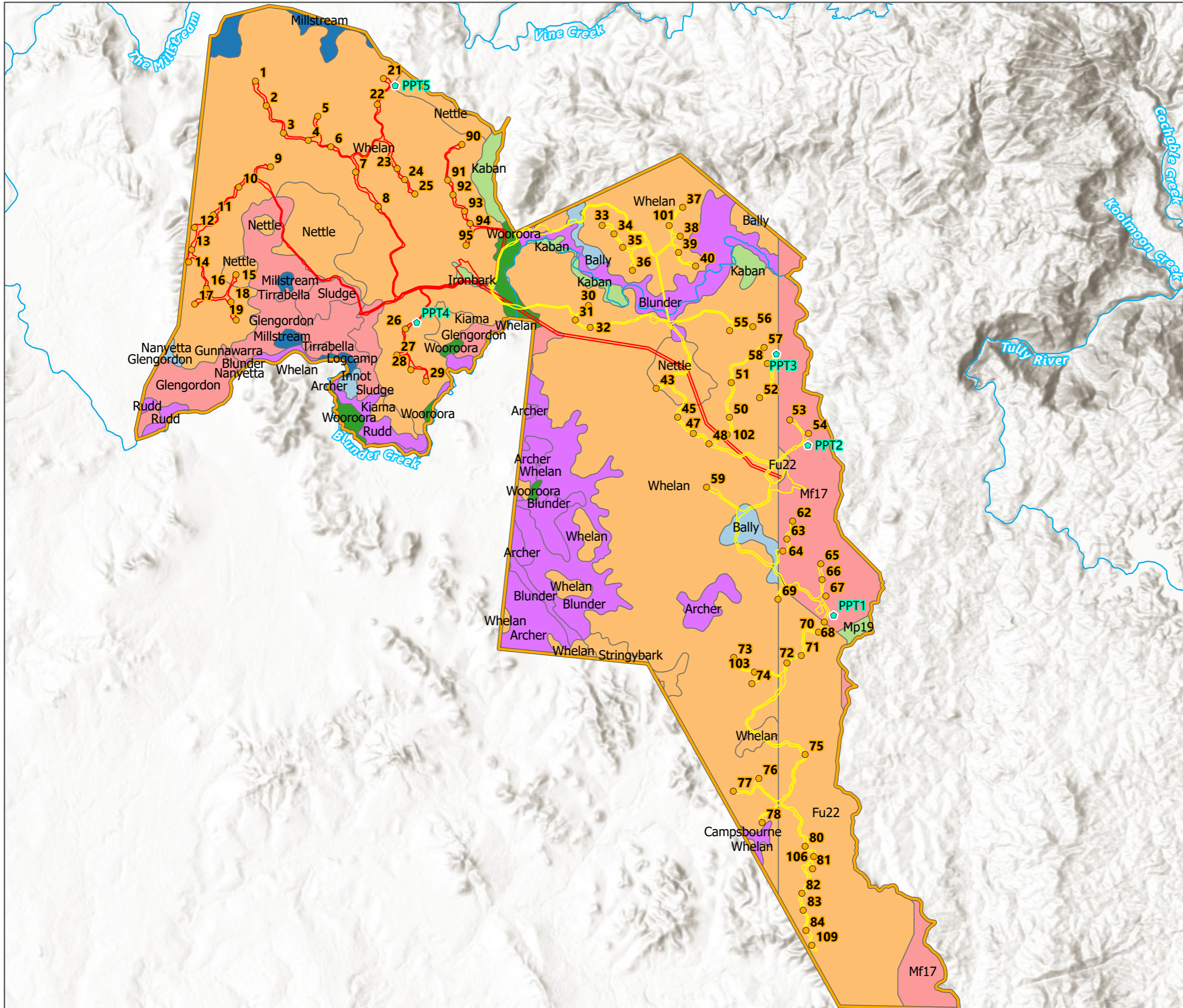


# Soils Map

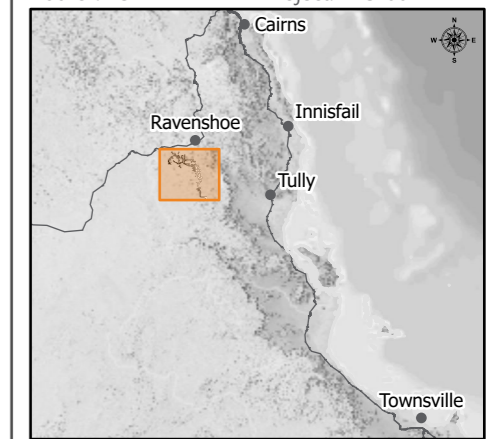
**Chalumbin Wind Farm**  
Soil Type Australian Soil Classification

**Figure 3-1**

- Project Area Boundary
  - Watercourse
  - Turbine
  - Met-mast
  - Stage 1
  - Stage 2
- ASC**
- Chromosol
  - Dermosol
  - Ferrosol
  - Hydrosol
  - Kandosol
  - Sodosol
  - Tenosol



Date: 14/10/2022 Reviewed: NOD  
Author: TOD Project: EPU-004



Scale: 1:120,000@A3

Data Source(s):  
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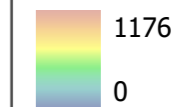


## Appendix D

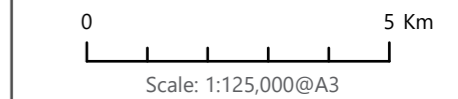
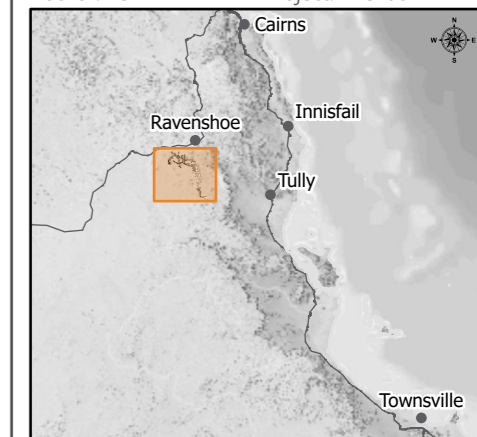


# Elevation map

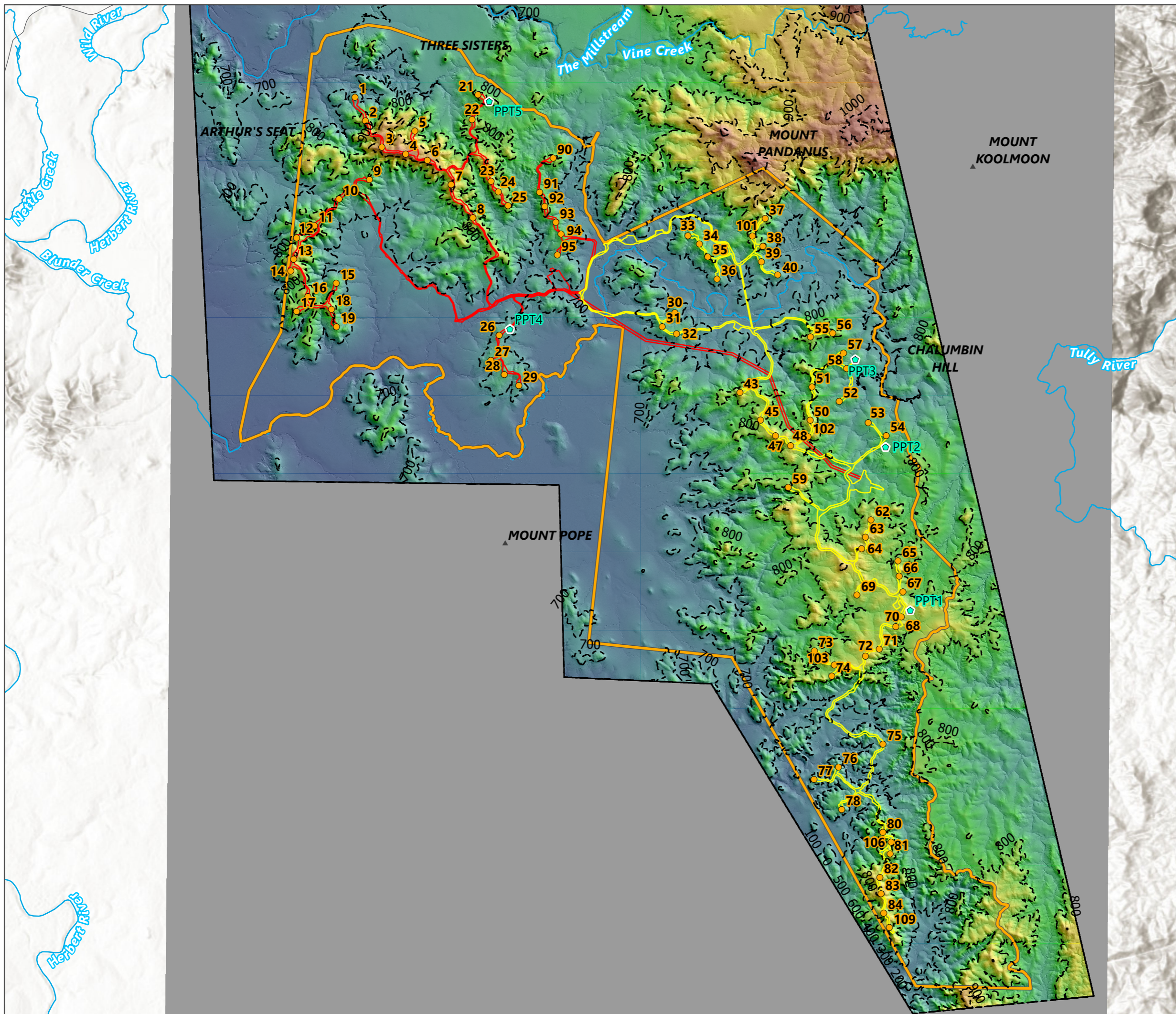
**Chalumbin Wind Farm**  
Elevation

-  Project Area Boundary
  -  Watercourse
  -  Turbine
  -  Met-mast
  -  Stage 1
  -  Stage 2
  -  100m Contour
- Elevation (m AHD)**
- 
- 1176
  - 0

Date: 14/10/2022 Reviewed: NOD  
Author: TOD Project: EPU-004



Data Source(s):  
Digital Cadastral Database - Department of Resources (2022)  
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Geoscience Australia, NASA, NGA, USGS





## Appendix E

# Erosion Hazard Assessment





Condition	Points	Project Score	Trigger value	Notes
<b>Average slope of disturbance area</b> <ul style="list-style-type: none"> <li>▪ ≤3%</li> <li>▪ &gt;3% - ≤5%</li> <li>▪ &gt;5% - ≤10%</li> <li>▪ &gt;10% - ≤15%</li> <li>▪ &gt;15%</li> </ul>	0 1 2 4 6	4	4	
<b>Soil Classification Group</b> <ul style="list-style-type: none"> <li>▪ GW, GP, GM, GC</li> <li>▪ SW, SP, OL, OH</li> <li>▪ SM, SC, MH, CH</li> <li>▪ ML, CL, or if imported fill is used or if soils are untested</li> </ul>	0 1 2 3	3		Soils untested
<b>Emerson (dispersion) class number</b> <ul style="list-style-type: none"> <li>▪ Class 4, 6, 7 or 8</li> <li>▪ Class 5</li> <li>▪ Class 3 (default value if soils are untested)</li> <li>▪ Class 1 or 2</li> </ul>	0 2 4 6	3	6	Soils untested
<b>Duration of soil disturbance</b> <ul style="list-style-type: none"> <li>▪ ≤1 month</li> <li>▪ &gt;1 month - ≤4 months</li> <li>▪ &gt;4 months - ≤6months</li> <li>▪ &gt;6 Months</li> </ul>	0 2 4 6	6	6	
<b>Area of disturbance</b> <ul style="list-style-type: none"> <li>▪ ≤1,000m<sup>2</sup></li> <li>▪ &gt;1,000m<sup>2</sup> - ≤5,000m<sup>2</sup></li> <li>▪ &gt;5,000m<sup>2</sup> - ≤1ha</li> <li>▪ &gt;1ha - ≤4ha</li> <li>▪ &gt;4ha</li> </ul>	0 1 2 4 6	6	4	
<b>Waterway disturbance</b> <ul style="list-style-type: none"> <li>▪ No disturbance of watercourse open drain or channel.</li> <li>▪ Involves disturbance of open drain or channel.</li> <li>▪ Involves disturbance of a natural watercourse</li> </ul>	0 1 2	2	2	
<b>Rehabilitation method</b> Percentage of area (relative to total disturbance) revegetated by seeding without light mulching: <ul style="list-style-type: none"> <li>▪ ≤1%</li> <li>▪ &gt;1% - ≤5%</li> </ul>	0 1	4		Rehabilitation method to be determined by construction contractor, conservative value applied.



Condition	Points	Project Score	Trigger value	Notes
<ul style="list-style-type: none"> <li>▪ &gt;5%- ≤10%</li> <li>▪ &gt;10%</li> </ul>	2 4			
<b>Receiving waters</b> <ul style="list-style-type: none"> <li>▪ Saline waters only</li> <li>▪ Freshwater body (e.g. creek, freshwater lake or river)</li> </ul>	0 2	2		
<b>Subsoil exposure</b> <ul style="list-style-type: none"> <li>▪ No subsoil disturbance except of service trenches.</li> <li>▪ Subsoils are likely to be exposed.</li> </ul>	0 2	2		
<b>External catchments</b> <ul style="list-style-type: none"> <li>▪ No external catchment</li> <li>▪ External catchment diverted around the soil disturbance.</li> <li>▪ External catchment not diverted around soil disturbance.</li> </ul>	0 1 2	2		Construction drainage controls yet to be designed, conservative values applied.
<b>Road construction</b> <ul style="list-style-type: none"> <li>▪ No road construction</li> <li>▪ Involves road construction works</li> </ul>	0 2	0		
<b>pH of soils to be revegetated</b> <ul style="list-style-type: none"> <li>▪ &gt;pH5.5 &lt;8%</li> <li>▪ Other pH values, or if soils untested.</li> </ul>	0 1	1		Soils untested
<b>Total Score</b>		35		