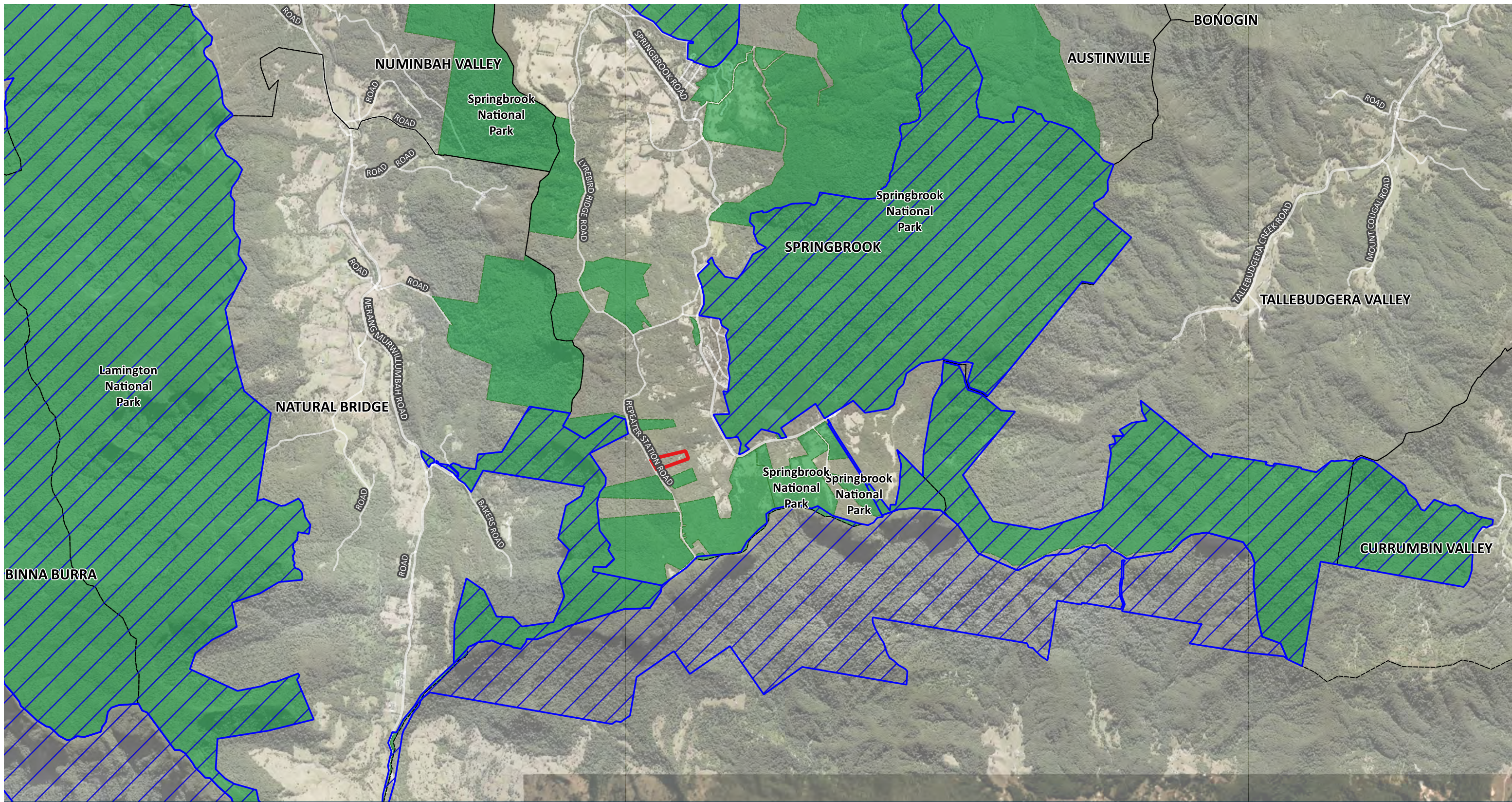


**Hoffmann Drilling v GCCC (P&E No 137 of 2020)**

**BUNDLE OF DOCUMENT EXTRACTS COMPILED BY THE SECOND CO-RESPONDENT BY ELECTION**

<b>No</b>	<b>Document</b>	<b>Source</b>	<b>Page</b>
<b>PART 1 – MAPS OF THE SITE</b>			
1.	Map of site broader locality	Ecology JER, eDoc 01.07, soft page (sp) 72	2
2.	Map of immediate locality of site	Ecology JER, eDoc 01.07, sp 73	3
3.	Map of site context	Ecology JER, eDoc 01.07, sp 74	4
4.	Map of Repeater Station Road extracted from Queensland Globe	Queensland Globe	5
5.	Location of groundwater dependent ecosystems (GDEs) around site as mapped by Queensland Government	Groundwater JER 1, eDoc 01.02, sp 4	6
6.	Topographic and geological map of the site	Groundwater JER 1, eDoc 01.02, sp 14.	7
7.	Site plan showing locations of bores 1-10	eDoc 05.09	8
8.	Locations of Production (Pumping) and Monitoring Bores	Extracted from Affidavit of Iain Hair, eDoc 05.15, sp 33 (p 3988)	9
<b>PART 2 – CONCEPTUAL HYDROGEOLOGICAL MODELS, HYDROGRAPHS &amp; SIMULATED DRAWDOWN</b>			
9.	Preliminary conceptual hydrogeological model of the site [by Professor Currell].	Professor Currell, Further Statement of Evidence, eDoc 08.01, sp 8	10
10.	Schematic representation of impacts of groundwater extraction [by Professor Currell]	Professor Currell, Further Statement of Evidence, eDoc 08.01, sp 8	11
11.	SLR Conceptual Groundwater Model	Groundwater JER 3, eDoc 01.13, Figure 9, sp 20	12
12.	Hydrographs of daily rainfall and recorded groundwater levels – 2021	Affidavit of Iain Hair, eDoc 05.11, p 3994.	13
13.	Modelled drawdown under no-rainfall scenario (reproduced from SLR, 2022)	Groundwater JER 3, eDoc 01.13, Figure 11, sp 24	14
14.	Overlay of approximate locations of observed groundwater springs east or west of the proposed pumping bores on simulated drawdown.	Professor Currell Supplementary Report, eDoc 08.20, sp 5.	15
<b>PART 3 – PHOTOGRAPHS OF SPRINGS FOR REFERENCE DURING SITE VISIT</b>			
15.	Maps of locations of photographs of springs to the east and west of the proposed bores	Professor Currell Supplementary Report, eDoc 08.20, sp 4.	16
16.	Photograph of creekline beneath groundwater spring at approximate location E1	Professor Currell Supplementary Report, eDoc 08.20, sp 7.	17
17.	Photograph of groundwater spring at approximate location E2	Professor Currell Supplementary Report, eDoc 08.20, sp 8.	18
18.	Photographs of groundwater spring at location W6	Professor Currell Supplementary Report, eDoc 08.20, sp 13.	19
<b>PART 4 – PLANNING SCHEME MAPS</b>			
19.	City Plan - Strategic framework map 4 - greenspace network	Town Planning JER, eDoc 02.07, sp 97	20
20.	Zoning map	Town Planning JER, eDoc 02.07, sp 33	21
21.	Environmental Significance Overlay mapping – Biodiversity areas – matters of environmental significance – Hinterland core habitat system	Town Planning JER, eDoc 02.07, sp 31	22
22.	Environmental Significance Overlay mapping – priority species	Town Planning JER, eDoc 02.07, sp 31	23
23.	Environmental Significance Overlay mapping – vegetation management	Town Planning JER, eDoc 02.07, sp 32	24

**Dated: 24 March 2023**



**Hoffman - Springbrook**

**Figure 1 - Broader Locality**

28 South Project Ref: 2020-046

Data Sources: Qld Globe (SIPS 2016); Digital Cadastre Database (Dept. Natural Resources and Mines, 2021); Roads (DNRME, 2020); Watercourse (DNRME, 2020); Contours (DNRME 2016).

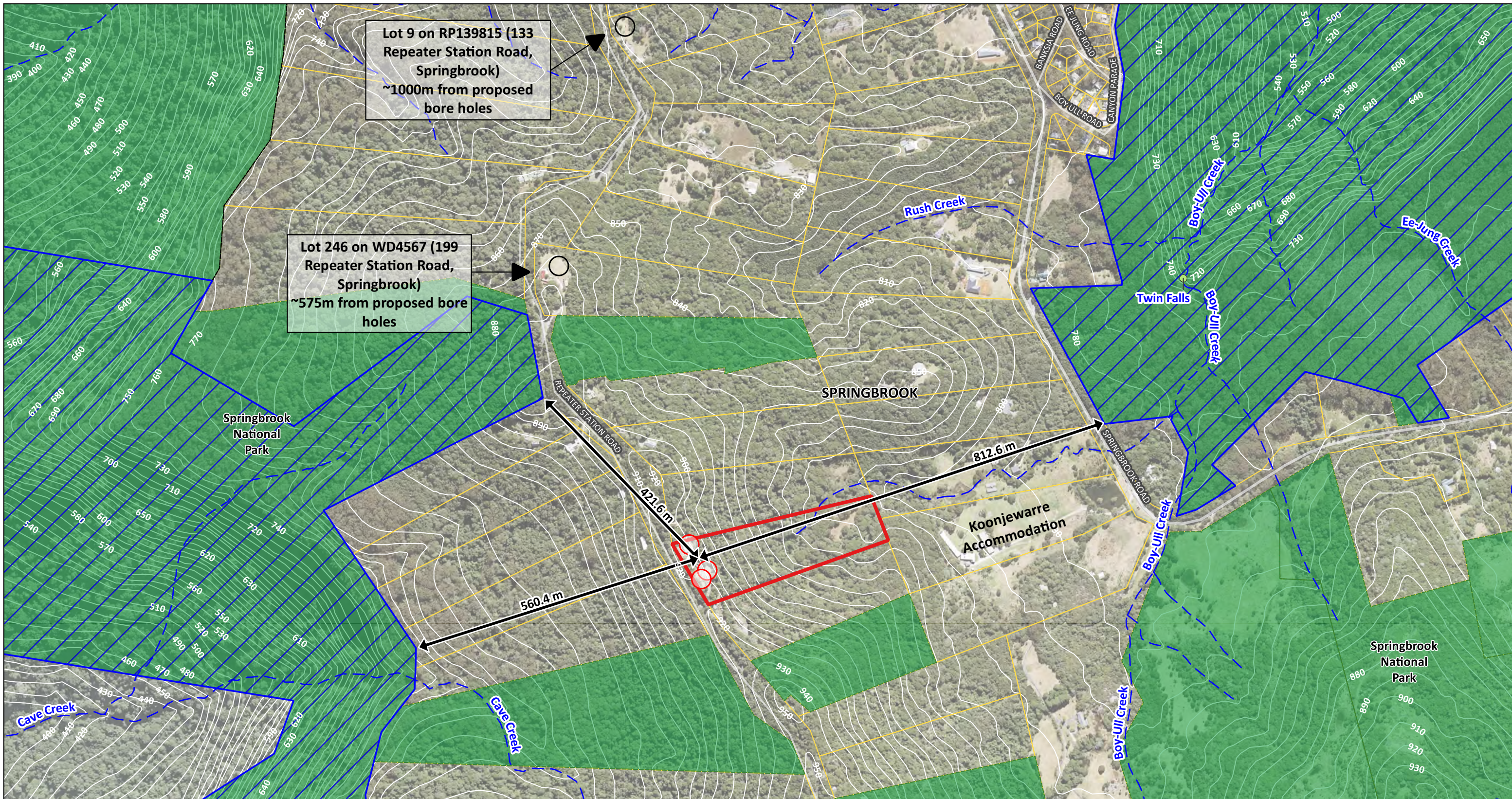


**Legend**

- Site Boundary
- World Heritage Areas
- Locality Boundaries
- National Park

Issue Date	Dwg No.	Author
23 March 2021	2020-046-001	RF
Approved		Revision Note
WM		

(A3) GDA 94 MGA 56  
1:40,000



Lot 9 on RP139815 (133 Repeater Station Road, Springbrook)  
~1000m from proposed bore holes

Lot 246 on WD4567 (199 Repeater Station Road, Springbrook)  
~575m from proposed bore holes

**Hoffman - Springbrook**

**Figure 2 - Immediate Locality**

28 South Project Ref: 2020-046

Data Sources: Qld Globe (SIPS 2016); Digital Cadastre Database (Dept. Natural Resources and Mines, 2021); Roads (DNRME, 2020); Watercourse (DNRME, 2020); Contours (DNRME 2016).

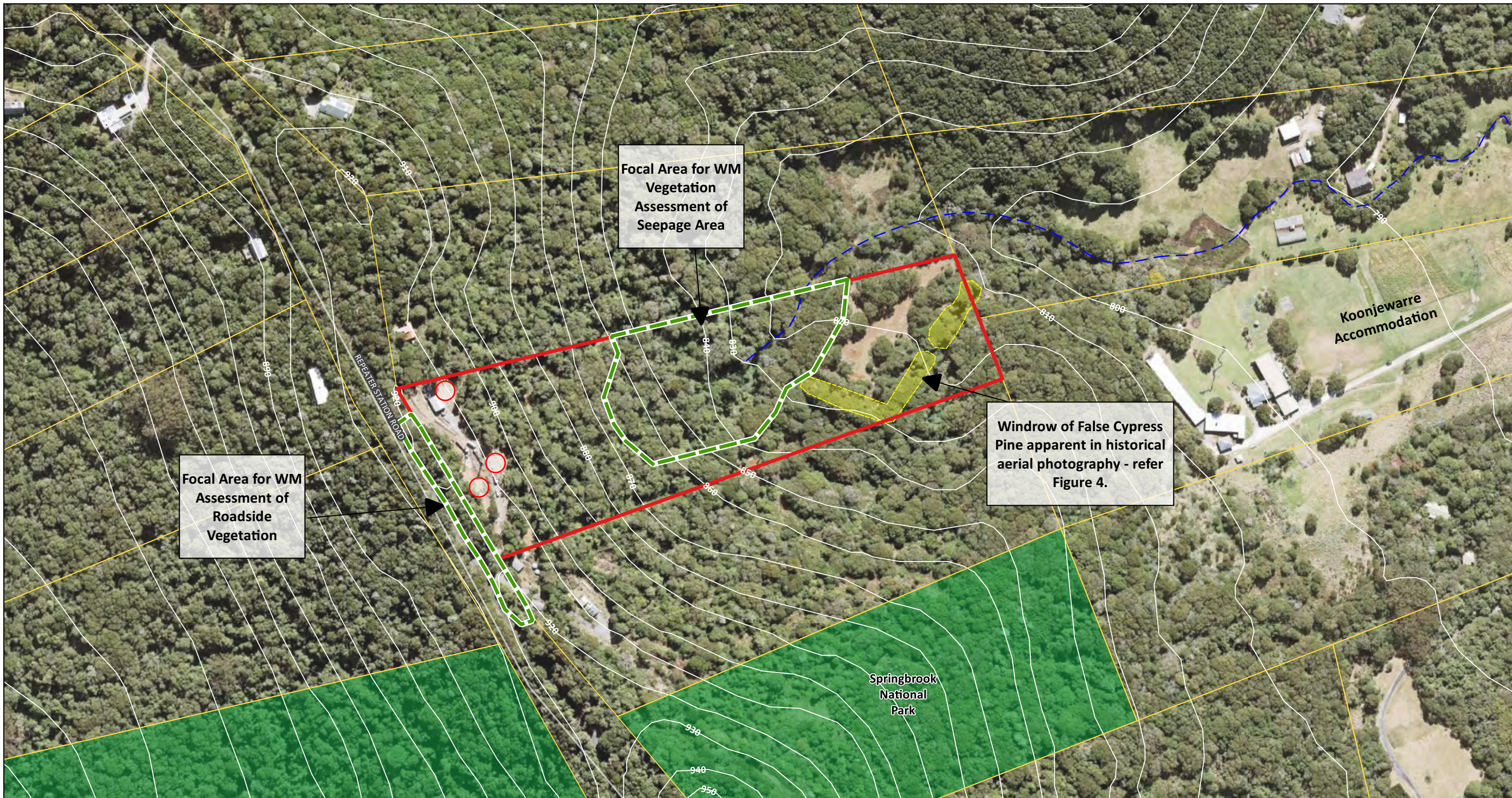


**Legend**

- Site Boundary
- Existing Bore Hole Locations
- Proposed Bore Holes (Indicative Only)
- World Heritage Area
- Locality Boundary
- Watercourse
- National Park
- Property Boundaries
- Contours (5m)

Issue Date	Dwg No.	Author
23 March 2021	2020-046-002	RF
Approved		Revision Note
WM		

(A3) GDA 94 MGA 56  
1:7,000



**Hoffman - Springbrook** **Legend**

**Figure 3 - Site Context**

28 South Project Ref: 2020-046

Data Sources: Qld Globe (SIPS 2016); Digital Cadastre Database (Dept. Natural Resources and Mines, 2021); Roads (DNRME, 2020); Watercourse (DNRME, 2020); Contours (DNRME 2016).



- |                              |                                       |                   |
|------------------------------|---------------------------------------|-------------------|
| Site Boundary                | Vegetation Assessment Area            | Locality Boundary |
| Existing Bore Hole Locations | Proposed Bore Holes (Indicative Only) | Watercourse       |
| Cypress Pine                 | Property Boundaries                   | National Park     |
| World Heritage Area          |                                       | Contours (5m)     |

Issue Date	Dwg No.	Author
23 March 2021	2020-046-003	RF
Approved		Revision Note
WM		

(A3) GDA 94 MGA 56  
1:2,500

# Map of Repeater Station Road

Extracted from Queensland Globe

28°13'22"S 153°15'23"E

28°13'22"S 153°16'12"E



### Legend

#### Address



#### Land parcel



Land parcel - gt 1 ha



Land parcel - gt 10 ha



Land parcel - gt 1000 ha



#### Road Crossing



Tunnel

#### Road



Main



Private

#### Railway



0 100 metres

Scale: 1:4513

Printed at: A3

Print date: 24/2/2023

Not suitable for accurate measurement.  
Projection: Web Mercator EPSG 102100 (3857)

For more information, visit <https://qldglobe.information.qld.gov.au/help-info/Contact-us.html>

Includes material © State of Queensland 2023. You are responsible for ensuring that the map is suitable for your purposes. The State of Queensland makes no representation or warranties in relation to the map contents and disclaims all liability.

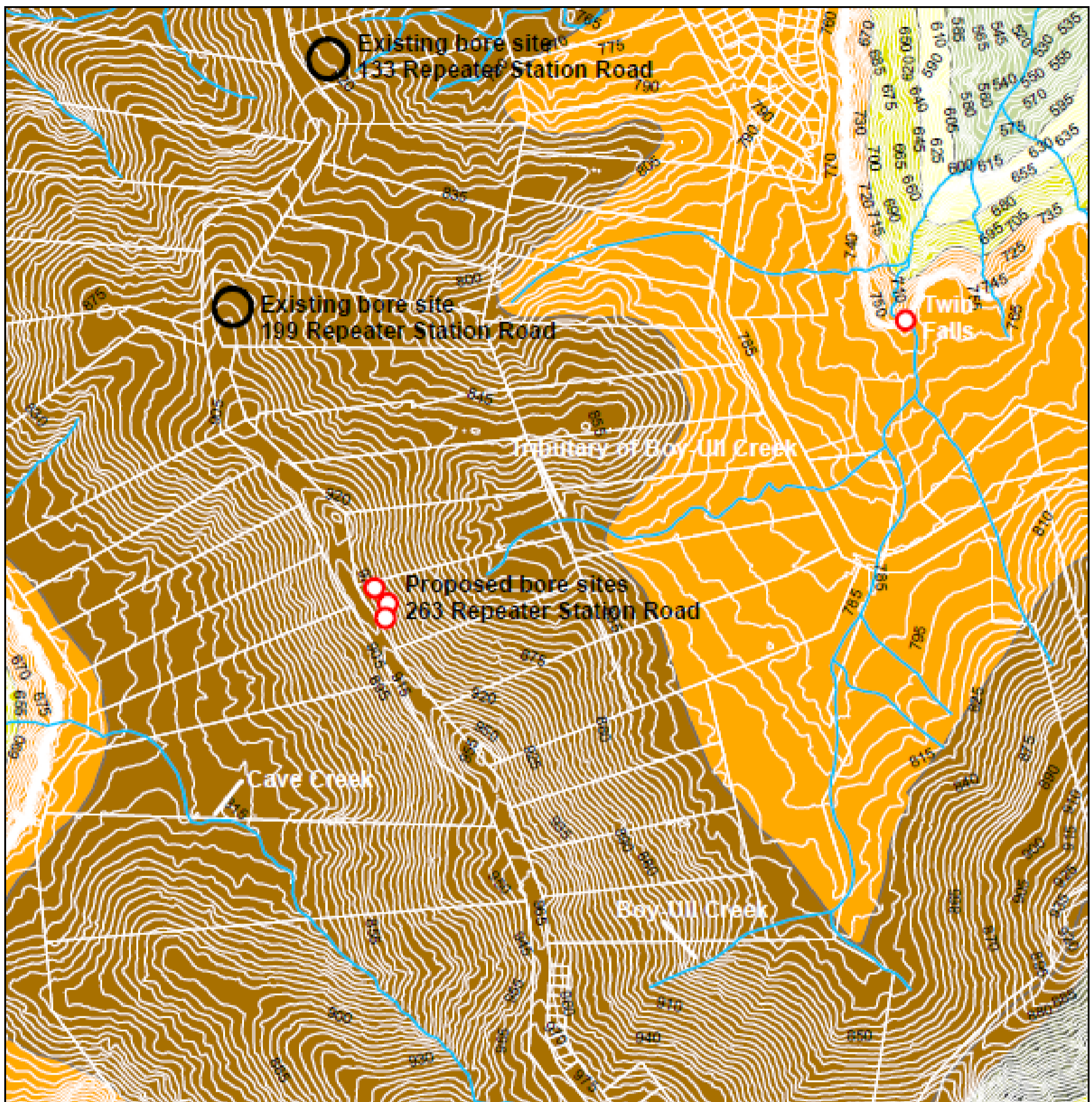
If imagery is displayed, imagery includes material © CNES reproduced under license from Airbus DS, all rights reserved © 21AT © Earth-i, all rights reserved, © Planet Labs PBC, 2023

28°13'55"S 153°15'23"E

28°13'55"S 153°16'12"E



Figure 1 – Location of groundwater dependent ecosystems (GDEs) based on Queensland Government spatial datasets (note: these have been assigned a level of confidence based on the level of local expert knowledge of the landscape and availability of detailed spatial datasets supporting the ecosystem identification).



ARCS Figure 7. Geology & Contours



**Legend**

**Geological layer**

- Hobwee Basalt
- Springbrook Rhyolite
- Lamington Group
- Binna Burra Rhyolite
- Beechmont Basalt

This series of maps has been produced by Keith Scott, Australian Rainforest Conservation Society Inc, on 14 September 2020 for Planning and Environment Court Appeal No. 137 of 2020. Data layers were downloaded from Queensland Spatial Data Catalogue at [qld.information.qld.gov.au](http://qld.information.qld.gov.au).

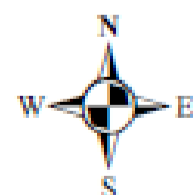
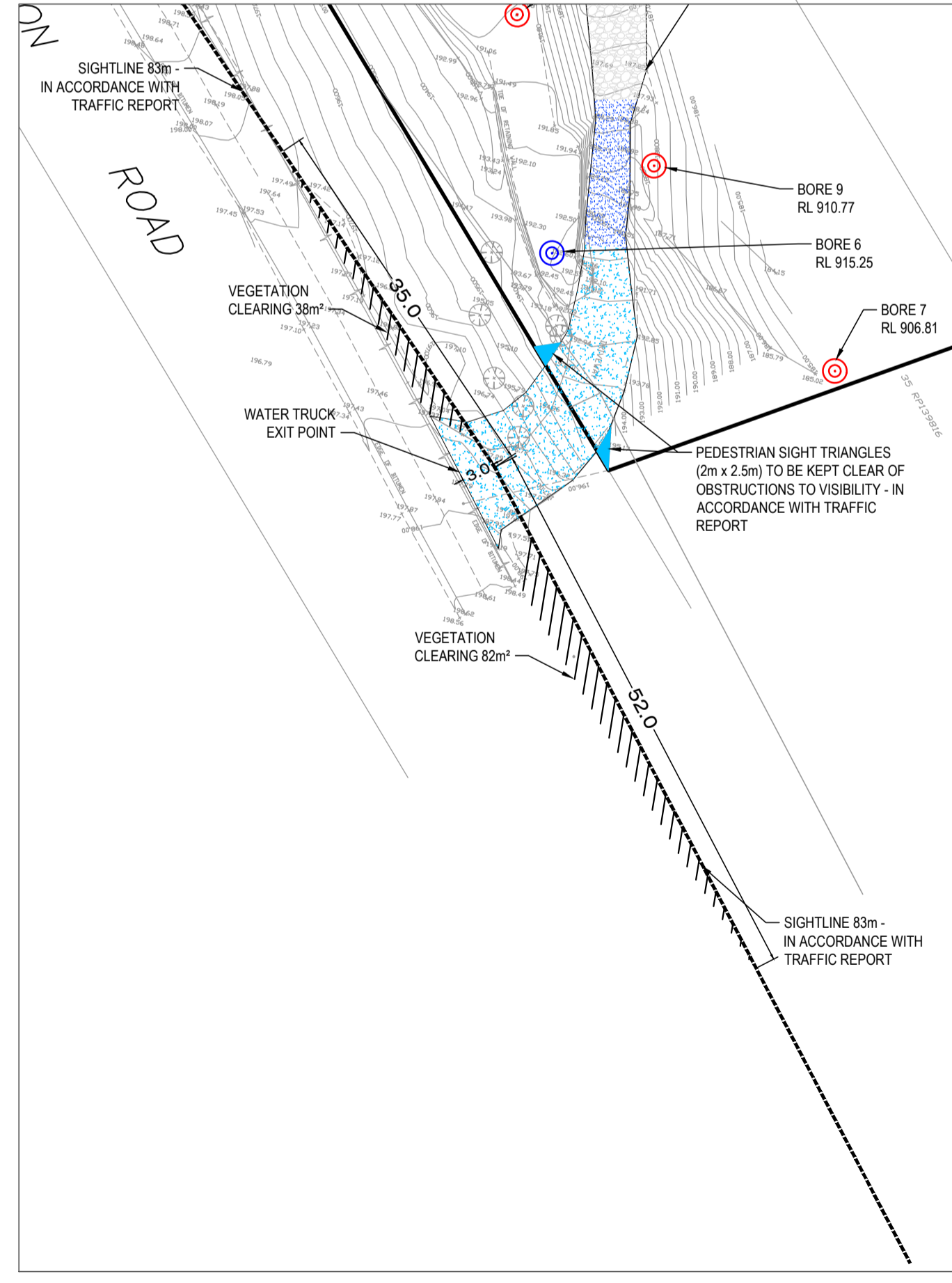
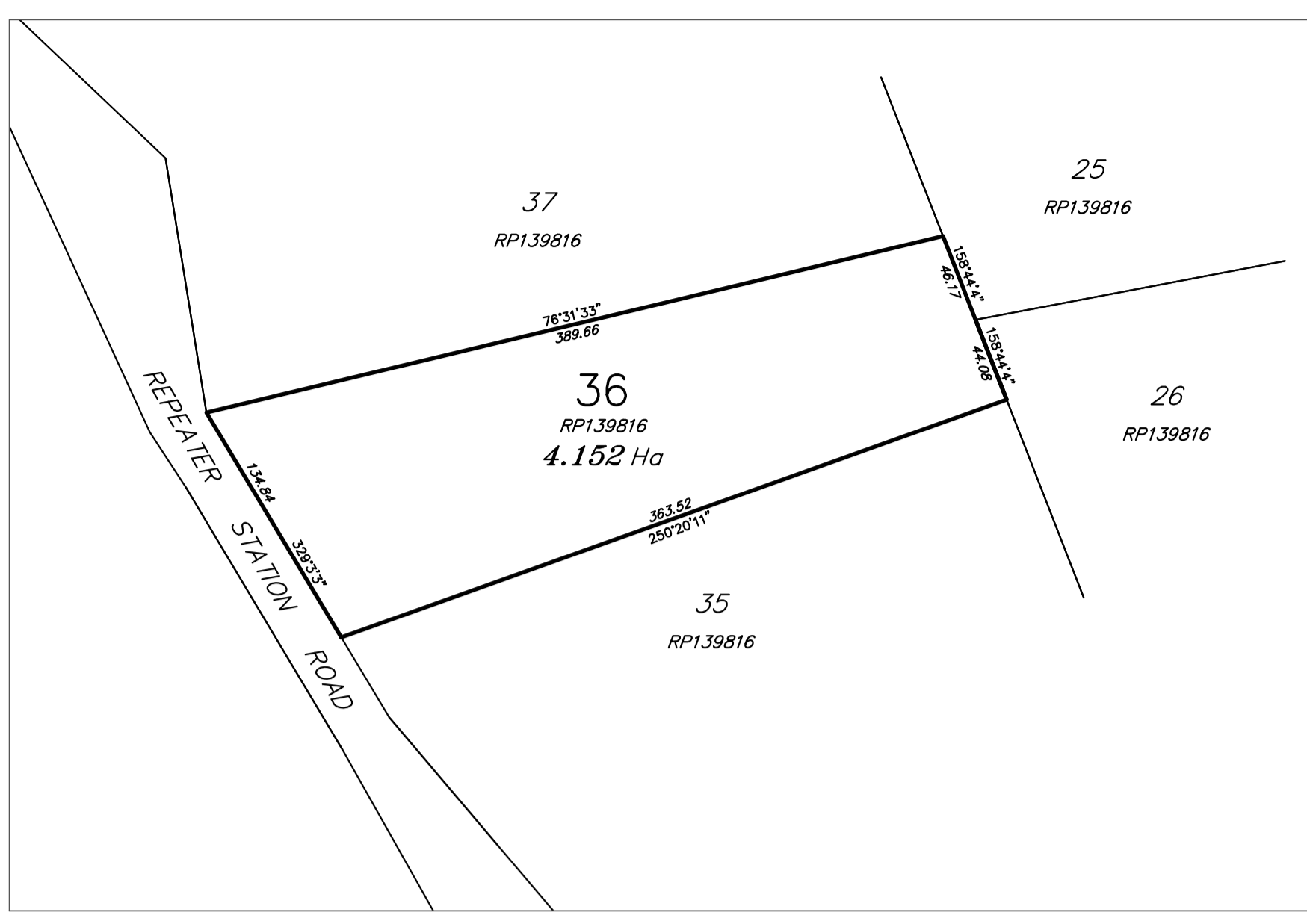
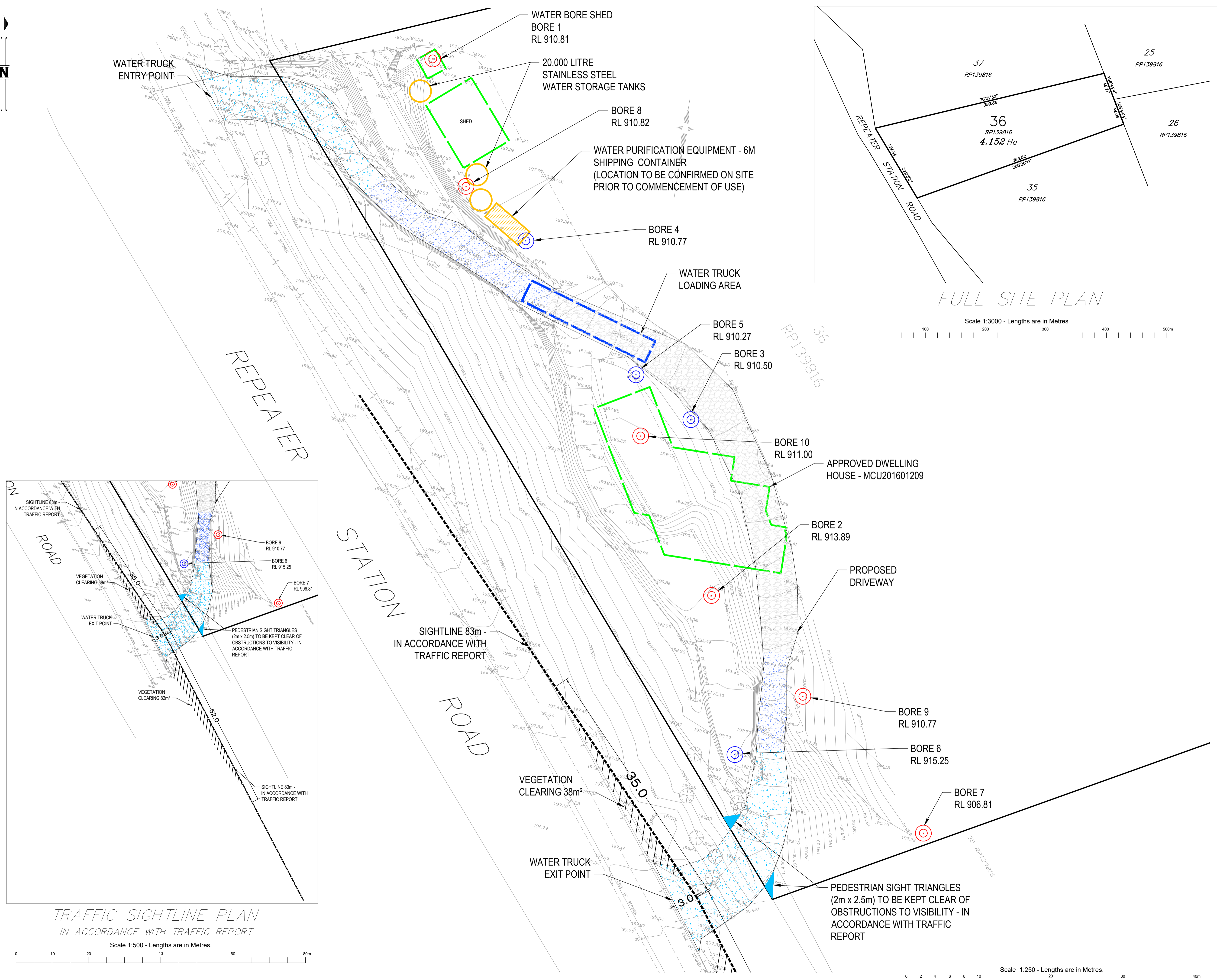
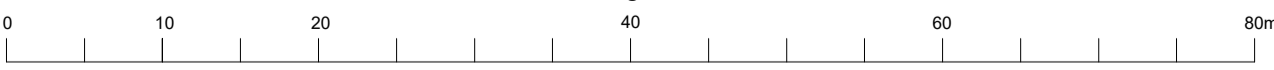


Figure 3 – Topographic and geological map of the site – supplied by ARCS.



TRAFFIC SIGHTLINE PLAN  
IN ACCORDANCE WITH TRAFFIC REPORT

Scale 1:500 - Lengths are in Metres.



Scale 1:250 - Lengths are in Metres.

E	BORE LOCATIONS	LF	31/1/22
D	ACCESS AND SIGHTLINE NOTE	LF	19/10/18
C	ACCESS NOTE CHANGE	LF	26/04/18
B	ACCESS NOTE CHANGE	LF	29/11/17
A	BORES ADDED	LF	29/11/17
ISSUE	SUBJECT	BY	DATE
AMENDMENTS			

NOTES & DISCLAIMERS

1. This plan was prepared for HOFFMAN DRILLING SUPERANNUATION FUND PTY LTD from a combination of field survey and existing records for the purpose of DEVELOPMENT APPLICATION and must not be used for any other purpose, particularly demolition, excavation or construction.
2. The title boundaries shown on this plan were not surveyed as part of this survey and have been compiled from RP139816 and not by field measurement and therefore could be subject to error.
3. Services shown on this plan have been located where possible by field survey. If underground and not able to be so located, services have not been shown and they may therefore be incomplete and/or erroneous.
4. Contour interval is 0.5m.
5. This note is an integral part of this plan.

- PUMPING BORE LOCATIONS (MAX. 2 BORES TO USED AT ANY ONE TIME)
- MONITORING BORE LOCATIONS
- ROAD BASE
- CONCRETE (ROUGH FINISH)
- BITUMEN

Land & Hydrographic Surveying  
Town Planning Services

23 Cotton Street  
Nerang, QLD 4211

PO Box 2695  
Nerang BC, QLD 4211

F 07 5500 4890  
admin@michelservices.com.au

T 07 5502 2500

PROJECT  
**PROPOSED COMMERCIAL GROUNDWATER EXTRACTION**

CLIENT  
**HOFFMAN DRILLING PTY LTD SUPERANNUATION FUND**

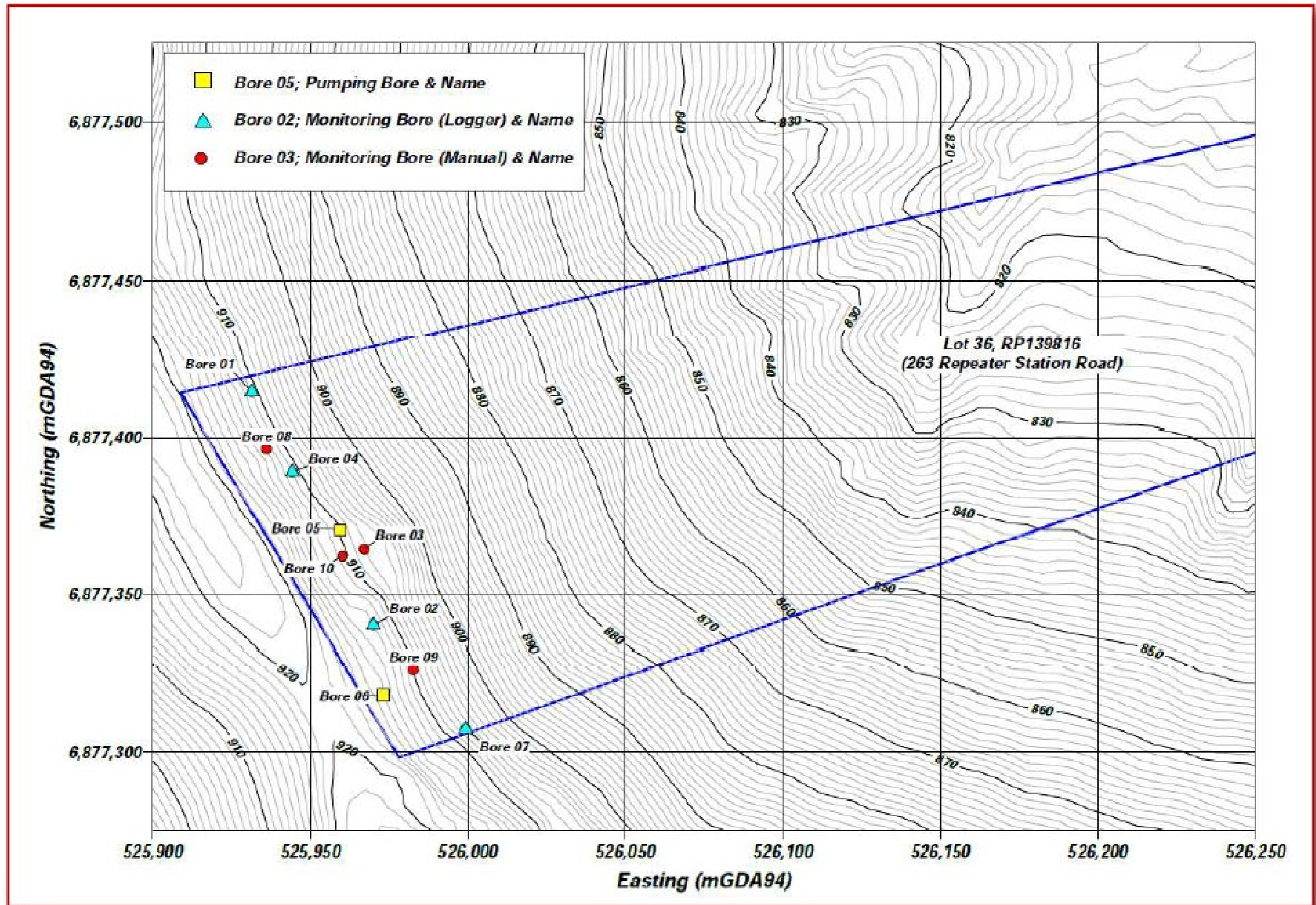
DRAWING TITLE  
**SITE PLAN OF LOT 36 RP139816 263 REPEATER STATION ROAD SPRINGBROOK**

PARISH: TALLEBUDGERA	COUNTY: WARD	
SCALE 1:250 @A1	DATE 22/11/2017	DRAWN LF
LEVEL DATUM AHD	LEVEL ORIGIN DCDB	ORIGIN RL
AZIMUTH DCDB	CO-ORD SYSTEM	CO-ORD ORIGIN
EASTING	NORTHING	SURVEYOR
AUTOCAD FILE 17161-1	SURVEY FILE QT	JOB No. 16171
CHECKED TR	DATE IMAGED TC	29/11/2017

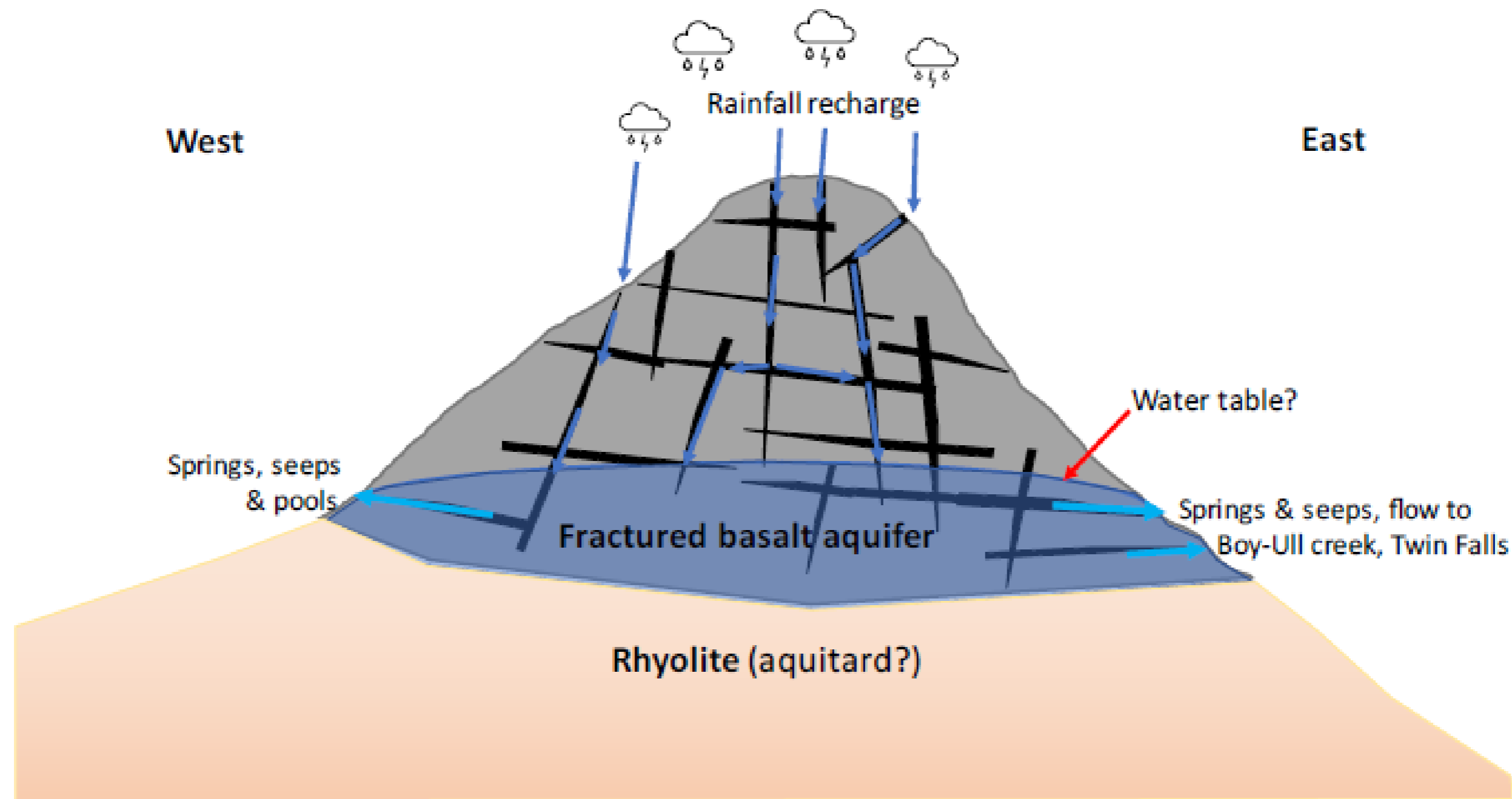
SHEET NUMBER 1 OF 1

PLAN No. **17161-1**

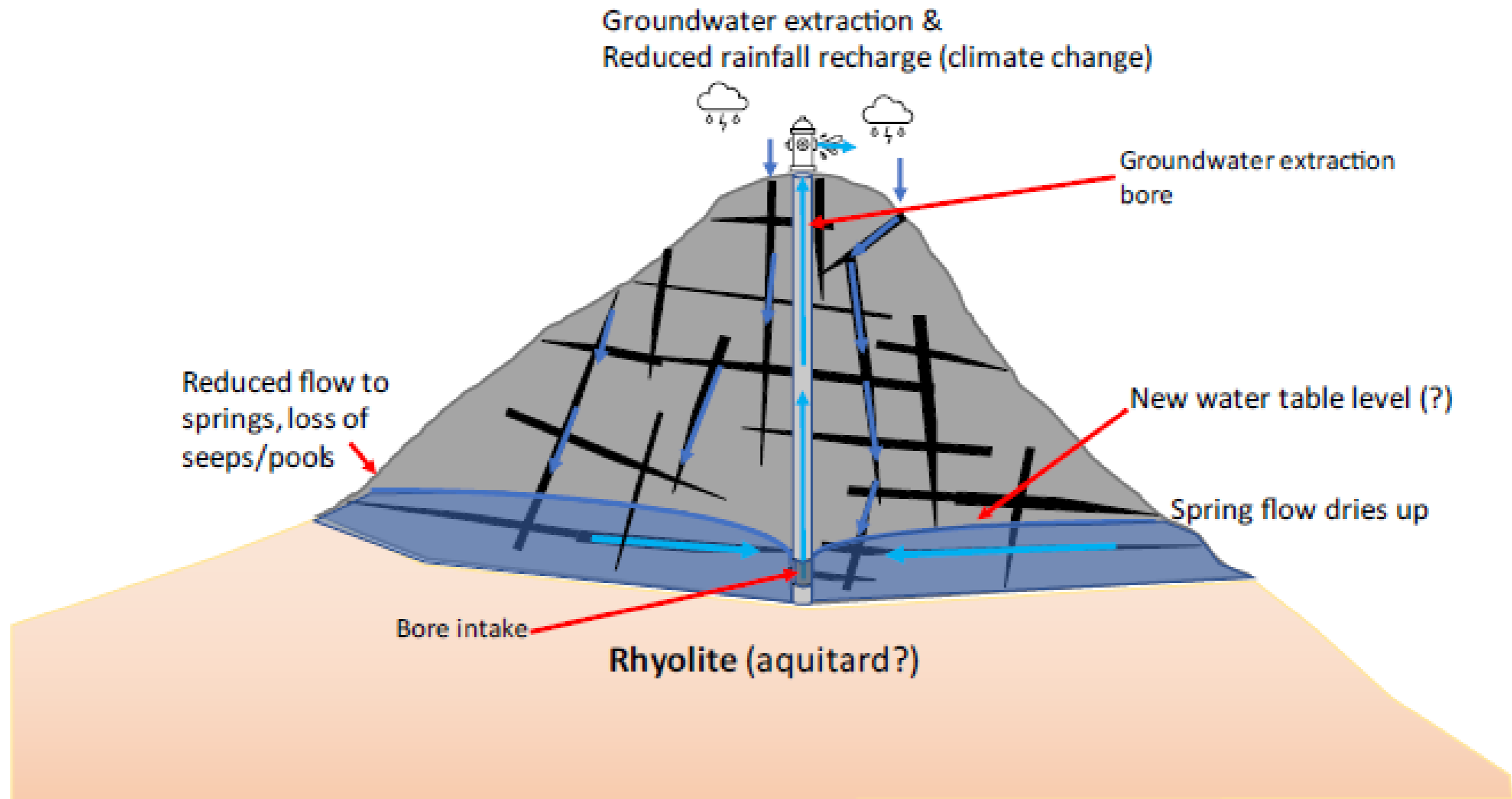




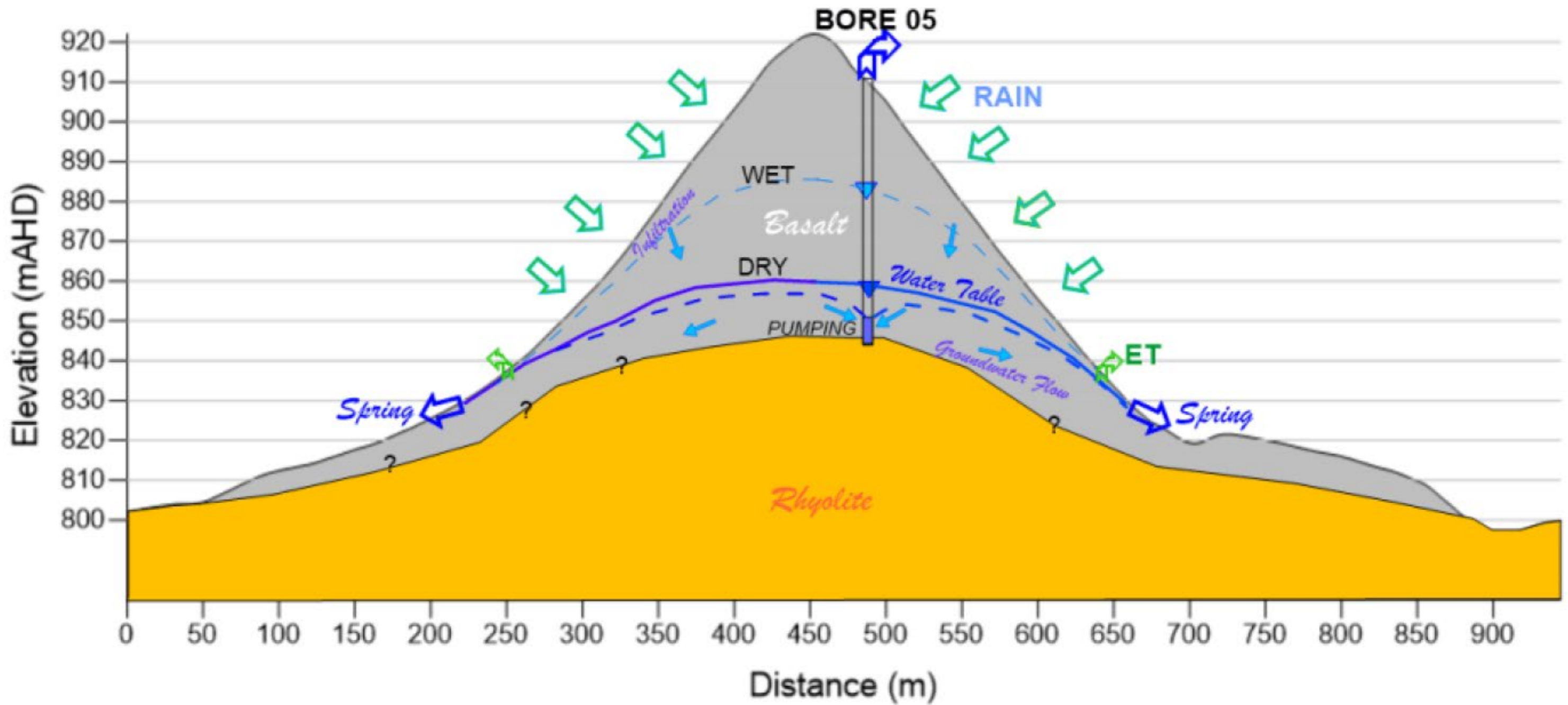
**Figure 1: Locations of Production (Pumping) and Monitoring Bores at 263 Repeater Road**



**Figure 1** – Preliminary conceptual hydrogeological model of the site. The image represents a slice (cross section) through the earth, from west to east (left to right). Repeater Station Rd and the proposed extraction bores occur at the top of the hill. Note that vegetation has not been represented, as it is difficult to show this without obscuring hydrogeological features, but vegetation is extensive across the whole area depicted.



**Figure 2 – Schematic representation of impacts of groundwater extraction (and climate change). Water table level and flow directions should be compared to those in Fig. 1 (which does not include groundwater extraction), for reference.**



Conceptual model of groundwater processes during dry, wet and pumping conditions

Figure 10 – SLR Conceptual Groundwater Model

### Hydrographs 2021

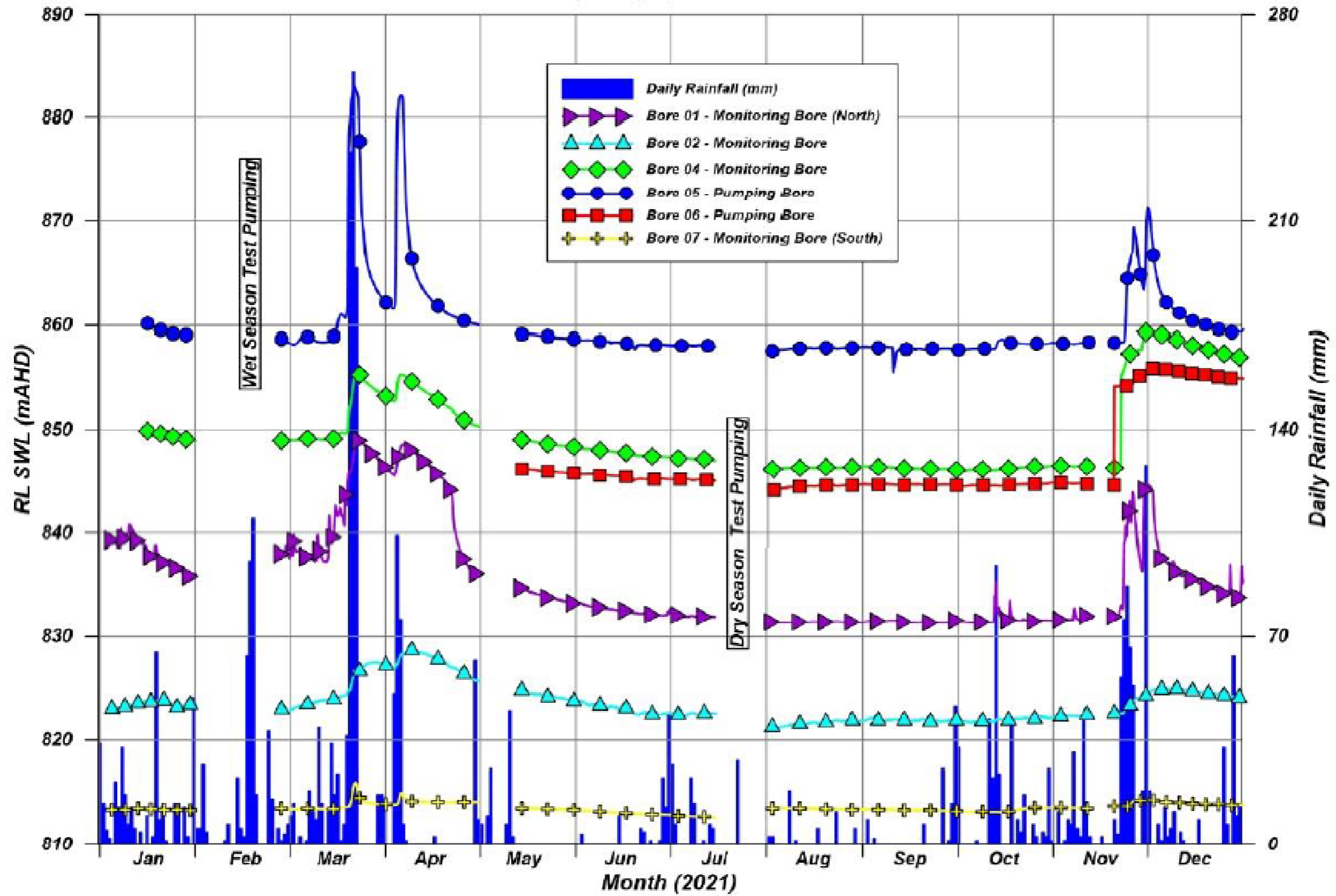


Figure 2: Daily Rainfall & Recorded Groundwater Levels - 2021

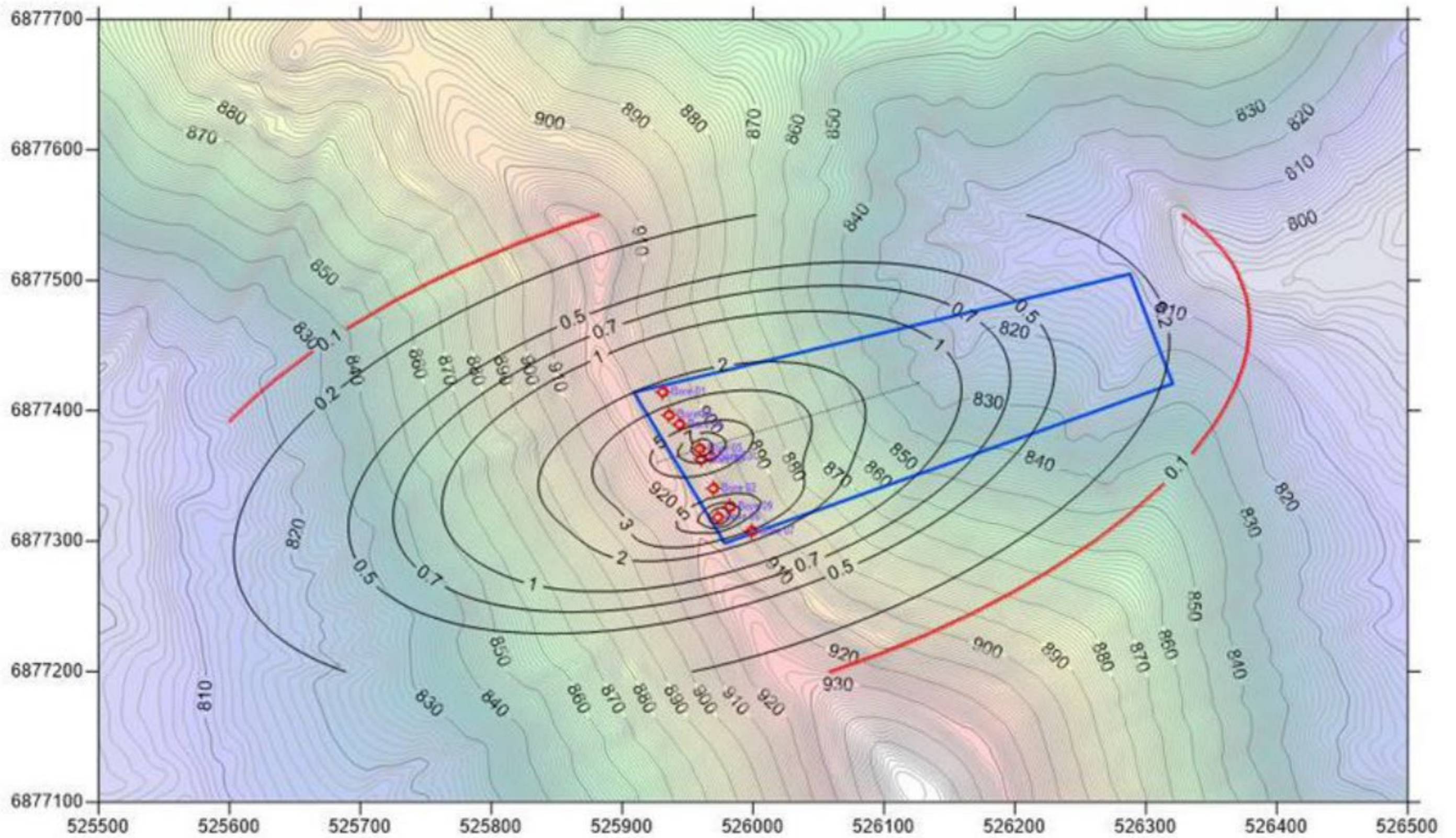


Figure 11 – Modelled drawdown under no-rainfall scenario (reproduced from SLR, 2022).

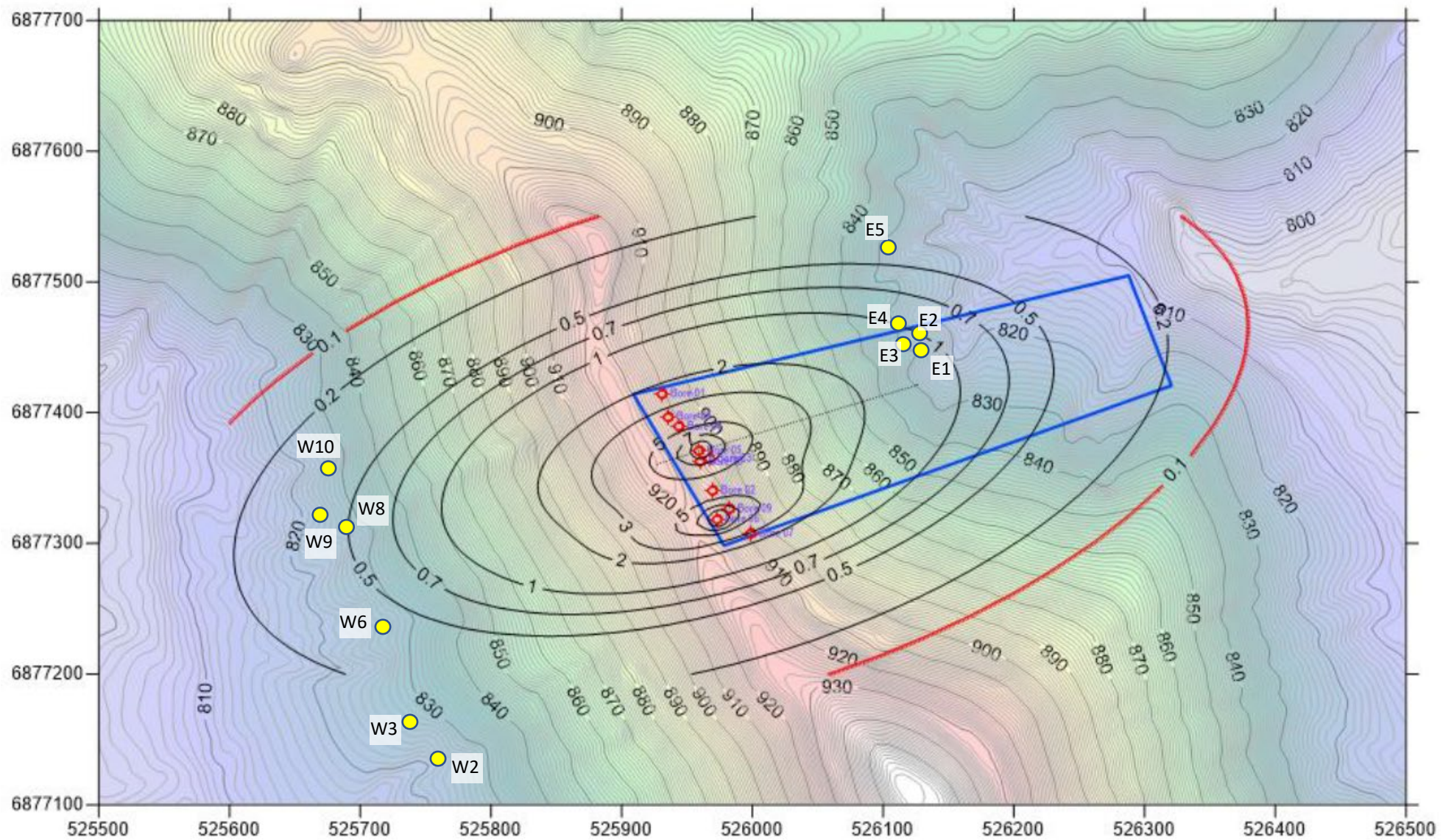
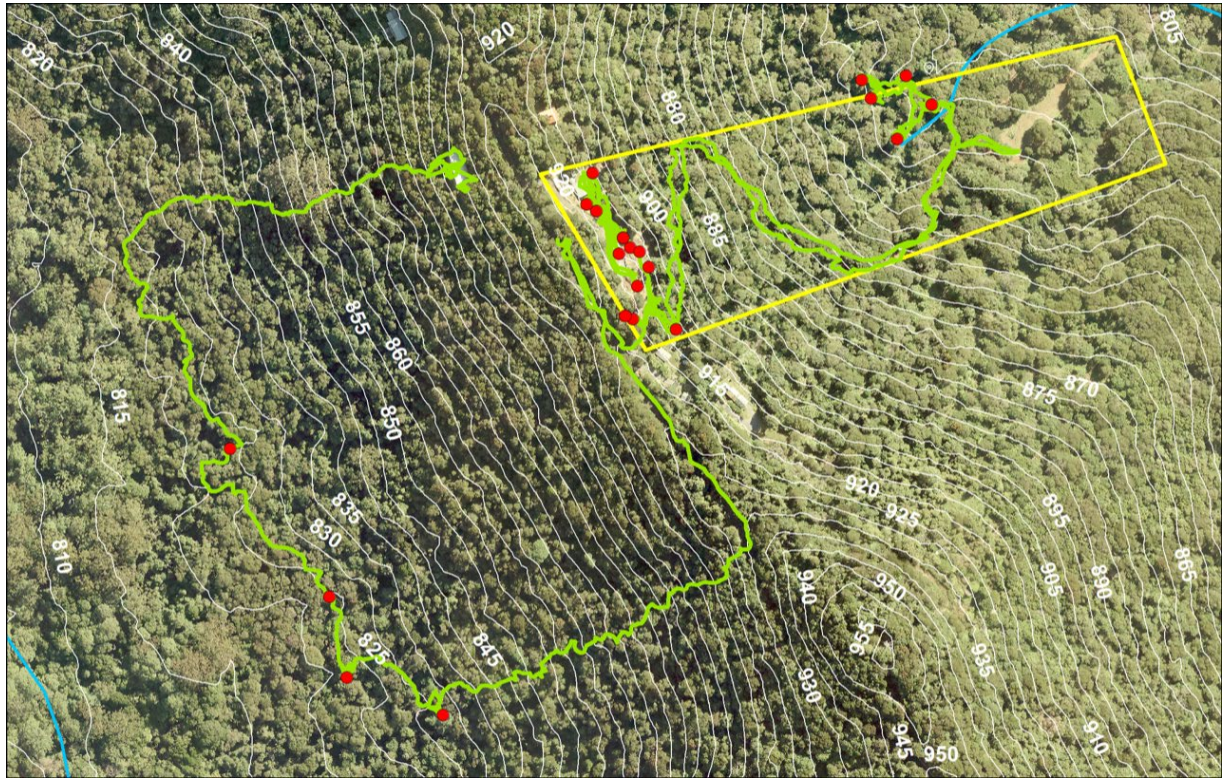
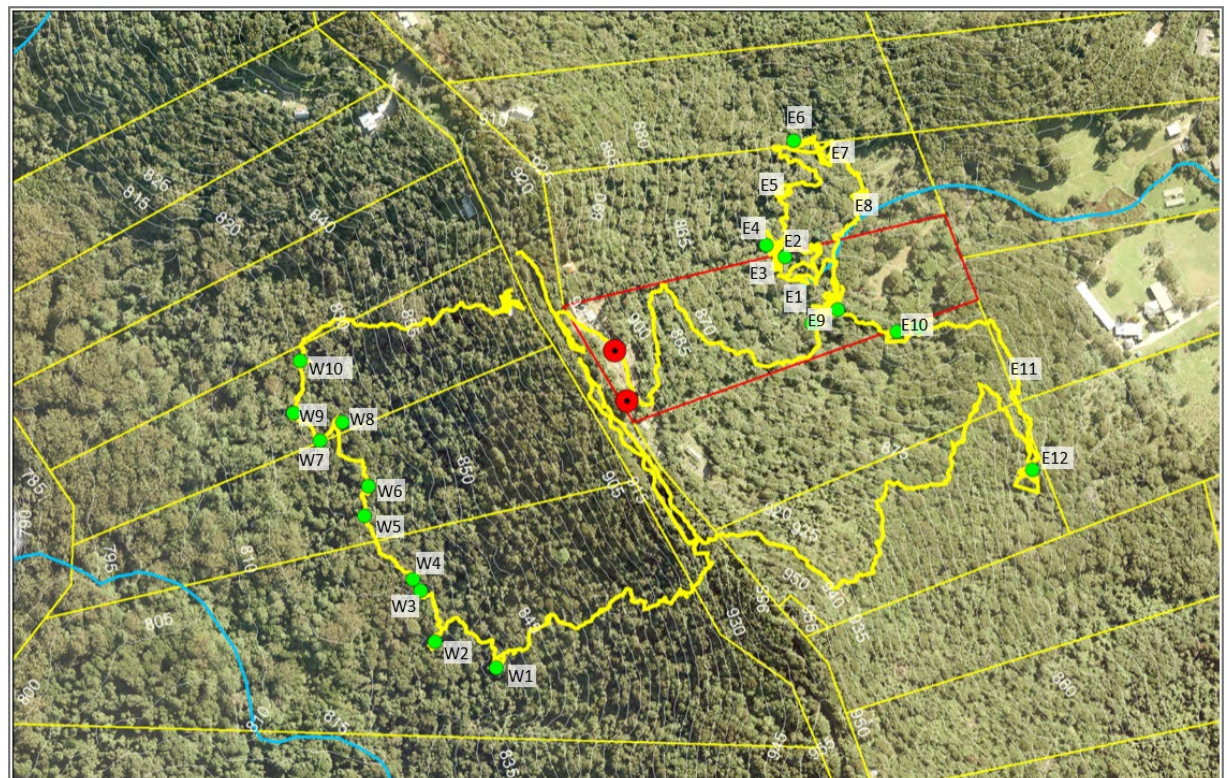


Figure 3: overlay of approximate locations where Ms Fenge and/or I (Professor Currell) observed groundwater springs east or west of the proposed pumping bores (i.e. E1-E5, W2, W3, W6, W8, W9 and W10 on Figure 2) on Figure 11 (Modelled drawdown under no-rainfall scenario reproduced from SLR, 2022) of Groundwater JER 3.



**Figure 1 - Aerial photograph showing route and location of photographs taken during additional site visit on 16 September 2022**



**Figure 2 – Route and location of photographs taken by Ms Fenge on 29 September 2021 (copied from Document 1 of Ms Fenge’s Affidavit)**



**Attachment 1 – Photograph of creekline beneath groundwater spring on the site taken by Professor Currell on 16 September 2022**

Note: this photograph is taken in approximately Location E1 of Ms Fenge’s Affidavit.



**Attachment 2 – Photograph of groundwater spring on the site taken by Professor Currell on 16 September 2022**

Note: this photograph is taken in approximately Location E2 of Ms Fenge’s Affidavit.



## Location W6 - Comparison of Photographs

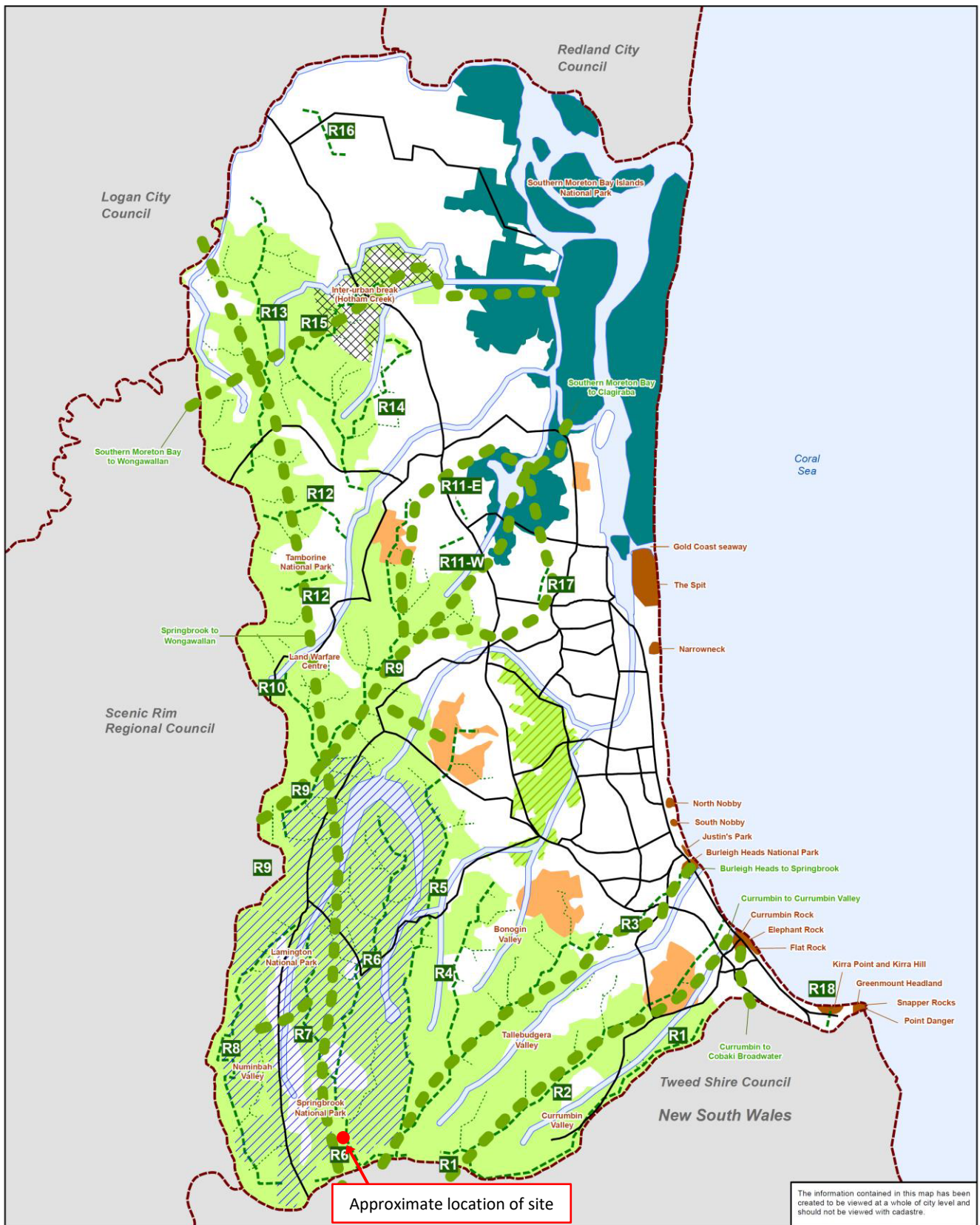


Location W6 - Photograph by Ms Elanor Fenge on 29 September 2021



Location W6 – Photograph by Professor Currell on 16 September 2022

Strategic framework map 4 - greenspace network



The information contained in this map has been created to be viewed at a whole of city level and should not be viewed with cadastre.

- Coastal wetlands and islands core habitat
- Hinterland core habitat
- Substantial remnants
- Merrimac/Carrara flood plain - special management area
- Inter-urban break
- Landscape character areas
- Critical corridor
- Water supply catchment
- Major ridgeline
- Minor ridgeline
- Local government area boundary
- State and major road network
- Waterway or waterbody

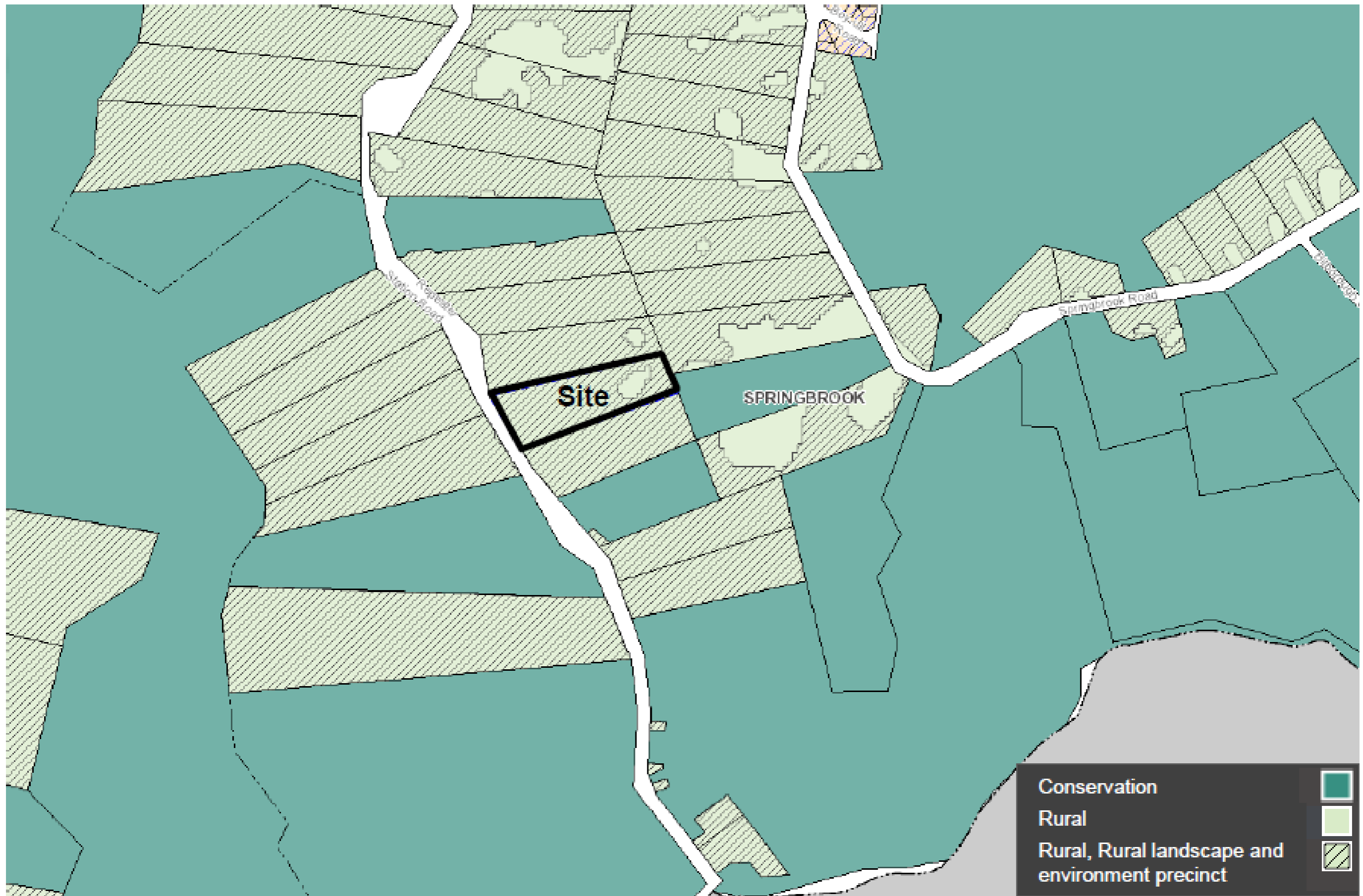
### City Plan

**Disclaimer:**  
 © City of Gold Coast, Queensland 2019 or © State of Queensland 2019. No warranty given in relation to the data (including accuracy, reliability, completeness or suitability) and no liability accepted (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws.

**Map version - 6**  
 18 May 2019  
 Data source:  
 Boundary - CoGC  
 Road network - CoGC  
 Waterways - CoGC  
 Ridgelines - CoGC  
 Bioregional corridors - CoGC  
 Water supply catchment - State  
 Greenspace - CoGC

**Projection:**  
 MGAB4  
 Zone 56

**CITY OF GOLDCOAST.**

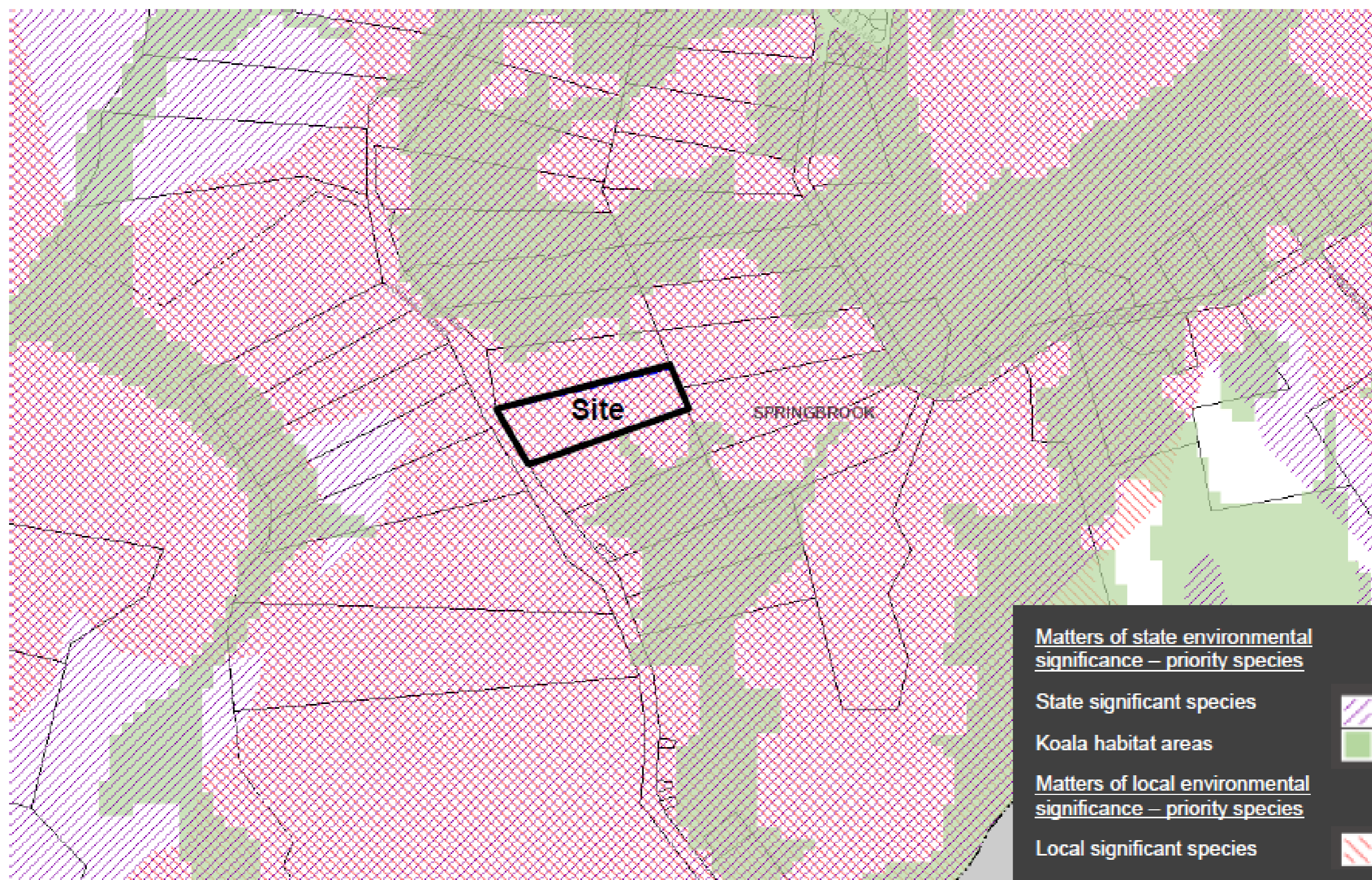


**Figure 22** – Zoning map (Source: Gold Coast City Council interactive mapping)

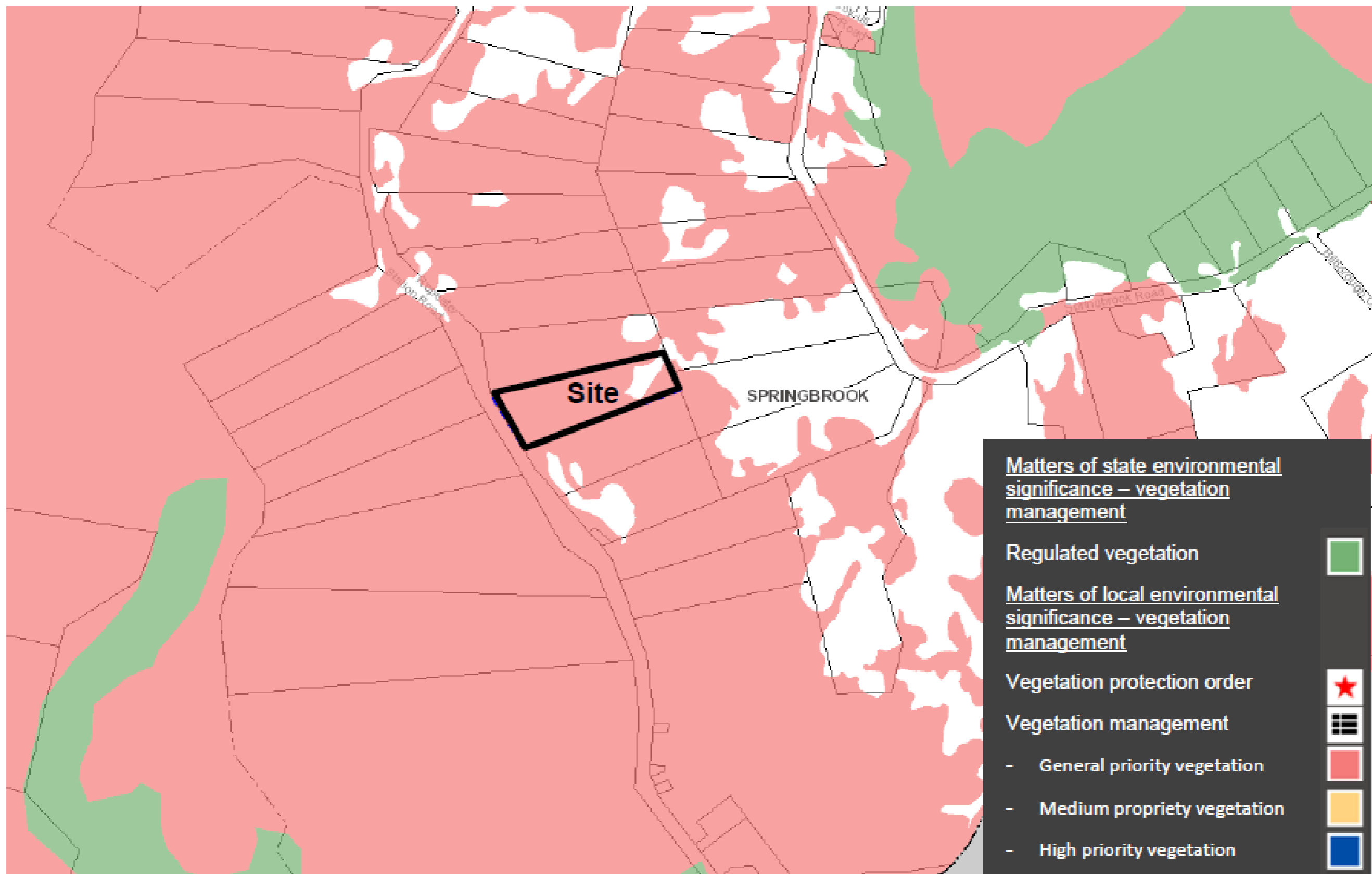
## Overlay Maps



**Figure 18** – Biodiversity areas – matters of local environmental significance – Hinterland core habitat system and Hinterland to coast critical corridor (Source: Gold Coast City Council interactive mapping)



**Figure 19** – Priority species - matters of state environmental significance: state significant species; and matters of local environmental significance – local significant species (*Source: Gold Coast City Council interactive mapping*)



**Figure 20** – Vegetation management – matters of local environmental significance – vegetation management – general priority area (Source: Gold Coast City Council interactive mapping)