

APPENDIX S

Surface Water Quality Technical Report

Part 1 of 2

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Contents

1	Introduction	1
1.1	Project overview and objectives	1
1.2	Impact assessment area	1
1.3	Overview of surface water environment	2
1.4	Project description	7
1.4.1	Bridges	8
1.4.2	Drainage infrastructure	9
1.4.3	Waterway diversions	11
1.4.4	Sediment basins	14
1.4.5	Construction water	15
1.4.6	Operational water	19
2	Regulatory and legislative framework	20
2.1	Regulatory environment	20
2.1.1	Water quality guidelines	23
2.2	Water quality objectives and environmental values	24
2.2.1	Environmental values	24
2.2.2	Water quality objectives	25
3	Methodology	28
3.1	Surface water quality assessment	28
3.1.1	Desktop and literature review	28
3.1.2	Field assessment	29
3.1.3	Sampling and laboratory quality assurance/quality control	38
3.1.4	Assessment of water quality results	39
3.1.5	Assessment of aquatic habitat values	39
3.2	Impact assessment methodology	39
3.3	Modelling	42
3.3.1	Magnitude of impacts	42
3.3.2	Sensitivity	43
3.3.3	Significance of impact	44
3.4	Cumulative impact assessment	45
3.4.1	General assessment methodology	45
3.4.2	Assessment matrix	49
4	Description of environmental values/existing conditions	50
4.1	Local government areas	50
4.2	Catchment areas	50
4.3	Land use	52
4.4	Climate	52
4.4.1	Rainfall	52
4.4.2	Evaporation	53
4.4.3	Temperature	53
4.4.4	Gauging station water monitoring (discharge and water quality)	54
4.4.5	Climate change	58
4.5	Key geology, soils and topography	58
4.5.1	Geological and topographic setting	58
4.5.2	Soil condition	68

4.6	Watercourses and waterbodies	80
4.6.1	Watercourses.....	80
4.6.2	Waterways for waterway barrier works mapping.....	89
4.6.3	Stream order.....	94
4.6.4	Artificial/constructed waterbodies	95
4.7	Aquatic ecosystem values	100
4.8	AquaBAMM aquatic conservation assessment.....	100
4.9	Sensitive environmental areas	101
4.9.1	Wetlands.....	101
4.9.2	Fish habitat area	106
4.9.3	Groundwater dependent ecosystems.....	106
4.10	Salinity hazard and risk	112
4.11	Surface water resources and use.....	115
4.12	Water quality receptors.....	115
5	Surface water quality assessment.....	117
5.1	Desktop review of surface water quality within the Border Rivers and Condamine River basins	117
5.2	Field assessment of surface water quality	118
5.2.1	Timing of baseline sampling	118
5.2.2	General conditions.....	118
5.2.3	Field and laboratory assessed water quality results.....	122
5.3	Summary of existing water quality conditions	185
5.4	Baseline water quality monitoring.....	185
5.5	Interim water quality objectives	185
5.5.1	Physico-chemical parameter baseline values	186
5.5.2	Nutrient parameter baseline values.....	192
5.5.3	Toxicant parameter baseline values.....	199
6	Potential impacts	207
6.1	Impacts to surface water quality	207
6.1.1	Construction impacts	207
6.1.2	Operation and maintenance impacts.....	211
6.2	Impacts to waterway morphology	212
6.3	Impacts to surface water availability and users.....	213
6.3.1	Construction water sources	214
6.4	Licenced water users.....	215
6.4.1	Construction water supply consultation	215
7	Mitigation measures	216
7.1	Mitigation through the revised reference design stage	216
7.2	Proposed mitigation measures.....	218
7.3	Surface water monitoring program	225
7.3.1	Baseline surface water monitoring	225
7.3.2	Construction surface water monitoring.....	226
8	Impact assessment summary.....	227
9	Cumulative impacts	232
10	Conclusions	245
11	References.....	247

Appendices

Appendix A

Surface water quality monitoring equipment calibration certificates

Appendix B

Surface water quality site investigation results

Appendix C

General field assessment water quality conditions

Appendix D

Database interrogation data

Appendix E

Gauging station seasonality plots

Appendix F

Artificial waterbodies within impact assessment area

Appendix G

Baseline water quality monitoring

Appendix H

Interim site-specific WQO derivation report

Figures

- Figure 1.1a-d Surface water quality impact assessment area
- Figure 1.2a-b Waterway diversion associated with impact assessment area
- Figure 3.1a-b Surface water quality field assessment sites
- Figure 3.2 Inglewood workforce accommodation camp
- Figure 3.3 Turallin facility
- Figure 3.4a-b Area of spatial assessment subject to the cumulative impact assessment for surface water quality
- Figure 4.1 Project surface water catchment area
- Figure 4.2 Summary of the maximum and minimum temperature recorded at Texas Post Office (041100)
- Figure 4.3 Historic stream water level and discharge at Gowrie Creek at Oaky (422332B) (1992 to 2022)
- Figure 4.4 Historic stream water level and discharge at Condamine River at Tummalville (422323A) (1961 to 2022)
- Figure 4.5 Historic stream water level and discharge at Macintyre Brook at Inglewood (416402C) (1981 to 2022)
- Figure 4.6 Historical stream water level and discharge at Macintyre Brook at Booba Sands (416415A) (1987 to 2022)
- Figure 4.7a-d Project impact assessment area topography
- Figure 4.8a-d Project impact assessment area geology
- Figure 4.9a-b Australian soil classification relative to the impact assessment area
- Figure 4.10a-d Acid sulfate soils relative to the impact assessment area
- Figure 4.11a-b Mapped waterways for waterway barrier works with the Project footprint
- Figure 4.12a-b Artificial/constructed waterbodies
- Figure 4.13a-d Ecologically significant wetlands in the vicinity of the impact assessment area
- Figure 4.14a-d Aquatic groundwater dependent ecosystems in the vicinity of the Project impact assessment area
- Figure 4.15a-b Salinity hazard rating for the region relative to the Project impact assessment area

Tables

Table 1.1	Key features of the Project
Table 1.2	Summary of rail bridges
Table 1.3	Sediment basins for construction works stage of the Project
Table 2.1	Regulatory context
Table 2.2	Environmental values for sub-catchments that the Project footprint intersects
Table 2.3	Water quality objectives for moderately disturbed waters intersected by the Project
Table 2.4	Water quality objectives for protection of slightly to moderately disturbed waters: heavy metals and potentially toxic contaminants
Table 3.1	Database review summary
Table 3.2	Assessments and reports relevant to the Project
Table 3.3	Surface water survey sites assessed for water quality
Table 3.4	Initial water quality monitoring timing
Table 3.5	Additional water quality monitoring
Table 3.6	Criteria for magnitude
Table 3.7	Timeframes for term of impact duration
Table 3.8	Sensitivity criteria for sensitive values/receptors within the impact assessment area
Table 3.9	Significance assessment matrix
Table 3.10	Significance classifications
Table 3.11	Assessment matrix
Table 3.12	Impact significance
Table 4.1	Weather stations within proximity of the Project and rainfall data
Table 4.2	Department of Regional Development Manufacturing and Water gauging stations
Table 4.3	Summary of discharge data at Department of Regional Development Manufacturing and Water gauging stations and rainfall per month (January 2015 to April 2022)
Table 4.4	Geological units
Table 4.5	Summary of acid sulfate soil parameters at select aquatic ecosystems
Table 4.6	Soil acidity along the Project footprint
Table 4.7	General summary of watercourses within the impact assessment area
Table 4.8	Waterways for waterway barrier works that intercept the Project disturbance footprint
Table 4.9	Stream orders present within the impact assessment area
Table 4.10	Artificial waterbodies intersected by the Project footprint
Table 4.11	AquaBAMM score for all water quality monitoring sites
Table 4.12	Summary of springs within 20 km of Project alignment
Table 4.13	Summary of 2023 Water Licence data for major watercourses
Table 5.1	Gauging station median water quality data with respective WQOs (high and low flow, moderately disturbed)
Table 5.2	Rainfall and stream flow prior to and including the first sampling event (11 to 20 June 2018)
Table 5.3	Rainfall and stream flow prior to and including the second sampling event (26 November and 3 December 2018)
Table 5.4	Rainfall and stream flow prior to and including the third sampling event (11 to 19 February 2019)
Table 5.5	Rainfall and stream flow prior to and including the fourth sampling event (29 April to 2 May 2019)
Table 5.6	Rainfall and stream flow prior to and including the fifth sampling event (15 May to 19 May 2019)
Table 5.7	Rainfall and stream flow averages prior to and including baseline water quality sampling events (14 December 2020 to 28 May 2021)
Table 5.8	Water quality results for Sites 2 and 2R in the Macintyre Barwon Floodplain – physico-chemical
Table 5.9	Water quality results for Sites 2 and 2R in the Macintyre Barwon Floodplain – nutrients
Table 5.10	Water quality results for Sites 2 and 2R in the Macintyre Barwon Floodplain – dissolved metals
Table 5.11	Water quality results for Sites 3, 6 and 7 in the Lower Macintyre Brook – physico-chemical
Table 5.12	Water quality results for Sites 3, 6 and 7 in the Lower Macintyre Brook – nutrients
Table 5.13	Water quality results for Sites 3, 6 and 7 in the Lower Macintyre Brook – dissolved metals
Table 5.14	Water quality results for Sites 11, 14, 16 and 18 in Canning Creek and Site 20R in Nicol Creek – physico-chemical
Table 5.15	Water quality results for Sites 11, 14, 16 and 18 in Canning Creek and Site 20R in Nicol Creek – nutrients
Table 5.16	Water quality results for Sites 11, 14, 16 and 18 in Canning Creek and Site 20R in Nicol Creek – dissolved metals

Table 5.17	Water quality results for Sites 23 and 24 in the Southern Condamine – physico-chemical
Table 5.18	Water quality results for Sites 23 and 24 in the Southern Condamine – nutrients
Table 5.19	Water quality results for Sites 23 and 24 in the Southern Condamine – dissolved metals
Table 5.20	Water quality results for Sites 27, 28, 30, 32 and 33 in the Central Condamine – physico-chemical
Table 5.21	Water quality results for Sites 27, 28, 30, 32 and 33 in the Central Condamine – nutrients
Table 5.22	Water quality results for Sites 27, 28, 30, 32 and 33 in the Central Condamine –dissolved metals
Table 5.23	Water quality results for Sites 39, 40 and 42 in the Oakey Creek – physico-chemical
Table 5.24	Water quality results for Sites 39, 40 and 42 in the Oakey Creek – nutrients
Table 5.25	Water quality results for Sites 39, 40 and 42 in the Oakey Creek – dissolved metals
Table 5.26	Site 2 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.27	Site 2R physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.28	Site 3 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.29	Site 6 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.30	Site 7 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.31	Site 11 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.32	Site 16 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.33	Site 18 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.34	Site 23 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.35	Site B2G 24 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.36	Site 27 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.37	Site 29 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.38	Site 30 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.39	Site 32 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.40	Site 33 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.41	Site 39 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.42	Site 40 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.43	Site 42 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)
Table 5.44	Site 2 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.45	Site 2R nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.46	Site 3 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.47	Site 6 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.48	Site 7 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.49	Site 11 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.50	Site 16 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.51	Site 18 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.52	Site 23 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.53	Site 24 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.54	Site 27 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.55	Site 29 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.56	Site 30 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.57	Site 32 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.58	Site 33 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.59	Site 39 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.60	Site 40 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.61	Site 42 nutrient WQOs (for slightly-moderately disturbed ecosystems)
Table 5.62	Site 2 toxicant baseline percentiles and 95% species protection
Table 5.63	Site 2R toxicant baseline percentiles and 95% species protection
Table 5.64	Site 3 toxicant baseline percentiles and 95% species protection
Table 5.65	Site 6 toxicant baseline percentiles and 95% species protection
Table 5.66	Site 7 toxicant baseline percentiles and 95% species protection
Table 5.67	Site 11 toxicant baseline percentiles and 95% species protection
Table 5.68	Site 16 toxicant baseline percentiles and 95% species protection
Table 5.69	Site 18 toxicant baseline percentiles and 95% species protection
Table 5.70	Site 23 toxicant baseline percentiles and 95% species protection
Table 5.71	Site 24 toxicant baseline percentiles and 95% species protection
Table 5.72	Site 27 toxicant baseline percentiles and 95% species protection
Table 5.73	Site 29 toxicant baseline percentiles and 95% species protection
Table 5.74	Site 30 toxicant baseline percentiles and 95% species protection
Table 5.75	Site 32 toxicant baseline percentiles and 95% species protection
Table 5.76	Site 33 toxicant baseline percentiles and 95% species protection
Table 5.77	Site 39 toxicant baseline percentiles and 95% species protection
Table 5.78	Site 40 toxicant baseline percentiles and 95% species protection

Table 5.79	Site 42 toxicant baseline percentiles and 95% species protection
Table 6.1	Potential construction impacts to water quality and impacting processes
Table 6.2	Precast concrete facility and concrete batch plant locations
Table 7.1	Proposed Surface Water Mitigation Measures
Table 8.1	Initial and residual impact significance assessment for surface water
Table 9.1	Projects considered within the cumulative assessment
Table 9.2	Summary of the cumulative impact assessment for surface water

Abbreviations

Abbreviation	Explanation
AEP	Annual exceedance probability
AHD	Australian height datum
ANZG	<i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i>
AquaBAMM	Aquatic Biodiversity Assessment Mapping Method
ARTC	Australian Rail Track Corporation Ltd
ASS	Acid sulfate soils
B2G	Border to Gowrie Project
BoM	Bureau of Meteorology
CEMP	Construction Environmental Management Plan
Ch	Chainage
CSIRO	Commonwealth Scientific and Industrial Research Organisation
Cth	Commonwealth
DAF	Department of Agriculture and Fisheries
DEHP	Department of Environment and Heritage Protection (Qld) (former)
DES	Department of Environment and Science (Qld) (former)
DNRME	Department of Natural Resources, Mines and Energy
DO	Dissolved Oxygen
DILGP	Department of Infrastructure, Local Government and Planning (former)
DRDMW	Department of Regional Development, Manufacturing and Water
DUP	At one monitoring site for each field trip, a second suite of water samples (duplicates) were taken
EA	Environmental Authority
EC	Electrical Conductivity
EIS	Environmental Impact Statement
EP Act	<i>Environmental Protection Act 1994</i> (Qld)
ELA	Eco Logical Australia
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
EPHC	Environment Protection and Heritage Council
EPP (Water and Wetland Biodiversity)	<i>Environmental Protection (Water and Wetland Biodiversity) Policy 2019</i> (Qld)
ERA	Environmentally Relevant Activities
EVs	Environmental Values
Fisheries Act	<i>Fisheries Act 1994</i> (Qld)
FRP	Filterable reactive phosphorus
GDE	Groundwater dependent ecosystems
GRC	Goondiwindi Regional Council
HES	High Ecological Significance
HF	High flow
Inland Rail Program	Melbourne to Brisbane Inland Rail
KL	kilolitres
km	kilometres

Abbreviation	Explanation
L	litres
L/m ³	litres per cubic metre
LF	Low Flow
LOR	Limit of Reporting
m	metre
MDC	Material Distribution Centre
ML	megalitre
MNES	matters of national environmental significance
MRV	Main Range Volcanics (geotechnical units)
MSES	Matters of State Environmental Significance
MUSIC	Model for Urban Stormwater Improvement Conceptualisation
NCST	National Committee on Soil and Terrain
NO _x	Nitrogen Oxides
NSW	New South Wales
NTU	Nephelometric Turbidity Units
N/A	Not Applicable
PAH	Polycyclic aromatic hydrocarbons
Planning Act	<i>Planning Act 2016</i> (Qld)
QA/QC	Quality Assurance/Quality Control
QLD	Queensland
SEQ	South East Queensland
SPP	<i>State Planning Policy</i> (Qld)
ToR	Terms of Reference
TRC	Toowoomba Regional Council
TDS	Total dissolved solids
TKN	total Kjeldahl nitrogen
TSS	Total suspended solids
Water Act	<i>Water Act 2000</i> (Qld)
WMIP	Water Monitoring Information Portal
WQO	water quality objectives

Glossary

Term	Explanation
AquaBAMM	The Aquatic biodiversity assessment mapping method used to determine aquatic conservation assessments
Aquascore	An overall conservation value of a wetland unit based on eight separate criteria of an AquaBAMM aquatic conservation unit
Annual exceedance probability (AEP)	The probability that a given rainfall total accumulated over a given duration that will be exceeded in any one year
Alignment	The proposed rail line for the Project
Ballast	Crushed rock, stone etc used to provide a foundation for a railway track. Ballast usually provides the bed on which railway sleepers are laid, transmits the load from train movements, and restrains the track from movement
Catchment	Catchment at a particular point is the area of land that drains to that point
Chainage	A measure of distance along the rail corridor. The nominated values are not exact distances as there are some local adjustments made to reflect progressive changes to the rail as works are progressively implemented to, for example, ease bends.
Cumulative impact area of influence	The area of the Project that incorporates other projects for assessment of cumulative impact. In matters relating to water quality, cumulative impact area of influence is related to intra-catchment processes
Dispersive	A characteristic of soil indicating the potential for the breakdown of clay material into single clay particles in solution
Ephemeral	Temporary, short-lived. An ephemeral waterway is one that flows following periods of heavy rainfall
Environmental values	The qualities of water that make it suitable for supporting aquatic ecosystems and human water uses
Hydrology	The study of rainfall or runoff process
Impact assessment area	The area being assessed by each technical discipline, with the potential to be directly or indirectly affected by the Project. The actual size and extent of the impact assessment area varies according the nature and requirements of each discipline's technical methodologies.
Limit of reporting	The smallest concentration at which the laboratory can quantify the presence of a particular parameter of interest. This is usually dictated by the test methodology.
Megalitres (ML)	A unit of measure of fluid, indicating equivalence of 1,000,000 litres
Micro Siemens per centimetre (μscm^{-1})	A unit of electrical conductivity which is calculated as a dimension of mass, length, time and electric current and is a measurement of electrical conductivity which is dependent on concentration of ion in solution.
Micrograms per litre (μgL^{-1})	A measurement of mass concentration (as one part per billion) within a litre of a certain mixture (in this instance freshwater)
Milligrams per litre (mgL^{-1})	A measurement of mass concentration (as one part per million) within a litre of a certain mixture (in this instance freshwater)
Perennial	Lasting or enduring. A perennial waterway has continuous flow all year-round during years of normal rainfall
Permanent footprint	The areas of the Project that will be permanently and directly impacted by the operation of the rail line and associated facilities
pH units	The measurement of presence of Hydrogen ion concentration indicating from a range of 1 to 14, the degree of acidity or basicity, respectively
Impact assessment area	The total area incorporated for assessment of existing environmental conditions and potential impact from the Project. The area extends 1 km from the Project alignment
Runoff	The amount of rainfall from a catchment that actually ends up as flowing water in the river or creek
Salinity	Refers to the amount of salt present in the soil or aquatic solution
Stream order	A measure of the relative size of a waterway

Term	Explanation
Temporary footprint	The area required to accommodate temporary construction works activities, facilities and movements.
the Proponent	Australian Rail Track Corporation Ltd
Track	The combination of rails, rail connectors, sleepers, ballast, points, crossings and any substitute devices
Watercourse	A watercourse is defined in the <i>Water Act 2000</i> (Qld) as a river, creek or other stream which includes a stream in the form of an anabranch or a tributary where water flows either permanently or intermittently, regardless of flow frequency. In this report, reference to a 'watercourse' is generally made in relation to the management of water resources, consistent with the purpose of the <i>Water Act 2000</i> .
Waterway	A flow path that may operate during times of surface runoff. Generally, the flow path will have a defined cross-sectional shape. The use of waterways typically defines drainage pathways through the impact assessment area that are not defined as watercourses under <i>Water Act 2000</i> . Therefore, in addition to its statutory meaning under the <i>Fisheries Act 1994</i> , 'waterway' has been adopted in this report as the primary term when referring to drainage features (e.g. rivers, creeks and streams) of the impact assessment area.
Water type	Water quality sub-regions within the wider surface water basins, as defined in healthy water management plans.
Water quality objectives (WQOs)	Guidelines which advise WQOs across a variety of parameters for specific protection of a variety of environmental values across broad catchments and subcatchments.

Executive summary

The Project

The Australian Rail Track Corporation (ARTC) is seeking approval to construct and operate the Border to Gowrie section of the Inland Rail Program (the Project) which consists of approximately 217.48 kilometres (km) of single-track railway. The Project extends from the New South Wales and Queensland border, approximately 18 km to the south-east of Goondiwindi near Kurumbul, to a tie-in with the Gowrie to Helidon section of the Inland Rail Program between Leeson Road and Draper Road, on the south-eastern outskirts of Kingsthorpe.

The Project is located within the Condamine-Balonne Rivers basin and the Queensland section of the Border Rivers basin and is expected to intersect 18 defined watercourses (as defined under *Water Act 2000* (Qld)) and several unnamed tributaries along the rail alignment.

Purpose

The purpose of this technical report is to provide a description of the surface water quality impact assessment for the Inland Rail—Border to Gowrie Project (the Project). This chapter has been prepared to address items 11.36 to 11.63 of the *Terms of reference for an environmental impact statement: Inland Rail – Border to Gowrie Project (November 2018)* (ToR) and the additional requests for information by the Coordinator-General dated 4 January 2022 following the public notification stage. Compliance of the revised draft Environmental Impact Statement (EIS) against the full ToR is documented in Appendix A2: Terms of Reference Cross-reference Table.

This report outlines the legislative framework and methodology for undertaking the surface water quality assessment and potential impacts related to the Project. This report describes the existing water quality for the impact assessment area, providing a summary of the environmental values (EVs) and water quality objectives (WQOs) for the identified waterways.

Environmental values

Water quality objectives measure levels of particular indicators of water quality (such as salinity or turbidity) that protect EVs and are defined under the *Environmental Protection (Water and Wetland Biodiversity) Policy 2019* (Qld) (EPP (Water and Wetland Biodiversity)) as objectives for physical, chemical and biological characteristics of the water. The defined EVs pertinent across the sub-catchments associated with the Project include:

- Aquatic ecosystems
- Irrigation
- Farm supply
- Stock water
- Visual recreation
- Drinking water
- Cultural, spiritual and ceremonial.

Other EVs identified across some of the sub-catchments associated with the Project include:

- Aquaculture (Upper Oakey water type zones)
- Human consumer (Upper Oakey, Condamine River South Branch, Lower Macintyre Brook, and Macintyre Barwon Floodplain water type zones)
- Primary recreation (Upper Oakey, Lower Macintyre Brook, and Macintyre Barwon Floodplain water type zones)
- Secondary recreation (Upper Oakey, Condamine River South Branch, and Macintyre Barwon Floodplain water type zones)

- Industrial use (Upper Oakey, Condamine River South Branch, and Condamine River North Branch water type zones).

Water quality objectives

The Healthy Waters Management Plans are a key planning mechanism established under EPP (Water and Wetland Biodiversity) and have been prepared to meet accreditation requirements under the 'Commonwealth *Water Act 2007* – Basin Plan 2012'. Waterway targets have been created for the Water Plan (Border Rivers and Moonie) 2019 and the Water Plan (Condamine and Balonne) 2019 and are expected to form continuing objective-based protection for watercourses within the Border Rivers and Moonie sub-catchment and Condamine River basin (Department of Environment and Science (DES), 2019a, 2019b).

The Project footprint extends through the following water type zones within the Border Rivers and Condamine basins, as published in the relevant Healthy Waters Management Plan:

- Condamine River basin (DES, 2019b):
 - Oakey Creek
 - Central Condamine
 - Southern Condamine.
- Border Rivers basin (DES, 2019a):
 - Canning Creek
 - Lower Macintyre Brook
 - Macintyre Barwon floodplain.

As such, the waterways targets for each respective water plan have been utilised to feed water quality thresholds for the protection of surface water quality within the Queensland Border Rivers and Condamine River basins.

Existing environment

- The impact assessment area is situated within a region of typically hot and dry conditions with seasonally distributed rainfall; rainfall is predominantly during summer months
- Surface water catchments relevant to the impact assessment area include the Condamine-Balonne Rivers catchment (here within referred to as the Condamine River basin) and Border Rivers basin
- The defined watercourses (as defined under *Water Act 2000* and through further consultation with the Department of Natural Resources, Mines and Energy, now the Department of Regional Development, Manufacturing and Water) intersected by the Project footprint are:
 - Macintyre River
 - Macintyre Brook
 - Canning Creek
 - Pariagara Creek
 - Cattle Creek
 - Bringalily Creek
 - Nicol Creek
 - Back Creek unnamed tributary
 - Back Creek
 - Grasstree Creek

- Condamine River (Main Branch)
 - Condamine River (North Branch)
 - Umbiram Creek unnamed tributary
 - Half Mile Gully
 - One Mile Gully
 - Westbrook Creek
 - Dry Creek
 - Gowrie Creek.
- Surface and groundwater use is primarily related to recreational, commercial and domestic uses
 - There are no wetlands of international importance (Ramsar wetlands) within 10 km of the Project, however multiple High Ecological Significance (HES) wetlands occur within the impact assessment area
 - The impact assessment area typically traverses areas of modelled high and medium salinity hazard rating, with the proposed rail alignment crossing in sections, areas of modelled high salinity hazard which occur in some instances alongside the intersection of watercourses
 - Ecosystem health within both catchments has been identified as poor under the most recent sustainable rivers audit 2 (Murray Darling Basin Authority, 2012). Typically, existing water quality conditions within the impact assessment area, noted during the existing environment assessment, indicated waterways relevant to the impact assessment area do not currently fully meet WQOs for either catchment.

Surface water quality receptors

All waterways within the impact assessment area were nominated as moderate sensitivity water quality receptors for identification of potential impacts, associated mitigation measures and identification of residual impact after implementation of mitigation. The Project footprint intersects the Macintyre River, Macintyre Brook, Canning Creek and the Condamine River. These areas were considered high-sensitivity receptors due to the potential presence of matters of national environmental significance (MNES) species including the Murray cod (*Maccullochella peelii*), as well as the potential presence of matters of State environmental significance (MSES) values within the impact assessment area.

Potential impacts

Potential impacts from the Project were grouped into the following eight discrete categories (with interplay between each category in regard to impact):

- Increase in debris
- Changes to receiving water quality and hydrology
- Alteration to the structure and function of waterways
- Extraction of water for construction
- Increase in salinity
- Increases in erosion and sedimentation
- Increase in contaminants
- Exacerbation of listed impacts above, from inadequate rehabilitation processes.

Significant residual impact assessment

In order to determine the significance of potential impacts of the Project upon the identified surface water quality receptors, sensitivity categories were applied to each of the receptors. The sensitivity of the potential impact was grouped into three distinct categories: high, moderate and low. These groupings were based on factors including, but not limited to, legislative status, resilience and representation in the broader landscape. In addition to sensitivity, the magnitude of each potential impact was assigned based on the extent, duration and resultant change to the receptor. The magnitude of impact was grouped into four categories: high, moderate, low and negligible. Both the sensitivity of an impact and the magnitude of the potential impact were used to determine the significance of a potential impact.

The proposed mitigation measures (after design considerations) for the Project were identified in order to reduce the initial magnitude and ultimately the significance of the potential impacts upon the identified receptors. Following the application of the mitigation hierarchy (i.e. avoid, minimise, mitigate) which included a range of mitigation measures and management plans the residual impacts to the identified receptors were reduced. After the application of mitigation, there will be a low residual significance of risk on water quality receptors:

- During construction, the combination of design considerations and mitigation measures relevant to surface water quality would be sufficient to mitigate potential impacts, such that the residual significance would be low
- For operation, the combination of design considerations and mitigation measures relevant to surface water quality would be sufficient to mitigate potential impacts, such that the residual significance would be low.

Cumulative impacts

A cumulative impact assessment was undertaken where potential surface water impacts of the Project were assessed together with existing or planned surrounding activities. Cumulative impacts are described in Section 9.

1 Introduction

1.1 Project overview and objectives

The purpose of this technical report is to provide a description of the surface water quality impact assessment for the Inland Rail—Border to Gowrie Project (the Project) Revised draft Environmental Impact Statement (EIS). This technical report has been prepared to address items 11.36 to 11.63 of the Project's Terms of Reference (2018) (ToR), submissions of the draft EIS and the additional information request by the Coordinator-General following the public notification stage. Compliance of the revised draft EIS against the full ToR is documented in EIS Appendix A2: Terms of Reference Cross-reference Table.

The Project consists of approximately 217.48 kilometres (km) of single-track railway extending from the New South Wales (NSW)/Queensland (QLD) border, approximately 18 km to the south east of Goondiwindi near Kurumbul, to a tie-in with the Gowrie to Helidon section of the Inland Rail Program. The new railway will be positioned within approximately 149.48 km of new rail corridor (greenfield) and approximately 68.00 km of existing open access rail corridor (brownfield).

This technical report includes an assessment of the quality of water and the existing uses of surface waters (known as environmental values (EVs)), as well as the water quality objectives (WQOs) that have been established to protect these values.

The existing environment is described, and an assessment is made of the potential impacts of the Project. Potential short and long term impacts on local and regional surface waterways have been assessed based on a review of the Project's construction works and operations stages. The results of the impact assessment and recommended mitigation measures have been outlined, along with potential cumulative impacts.

This technical report has been prepared to support the Border to Gowrie Project EIS.

1.2 Impact assessment area

The impact assessment area for the assessment of surface water is approximately 1 km either side of the Project alignment and includes Project activities for the Yelarbon non-resident workforce accommodation and Turallin facility which are outside of the 1 km buffer. In addition, as a conservative measure, in recognition that hydraulic connectivity between a source aquifer and spring may be expansive, the groundwater impact assessment area was expanded significantly to a 20 km distance from the Project alignment to assess potential groundwater related springs.

The 1 km buffer of either side of the Project alignment includes:

- The permanent footprint: comprises the area required to accommodate all rail and road infrastructure components and other miscellaneous infrastructure. It includes new rail track, crossing loops, turnouts, signalling, bridges and drainage structures, level crossings, road realignments, road rail interfaces, stock route treatments, rail maintenance access roads, fencing, signage and other permanent infrastructure'.
- The temporary footprint: includes land required on a temporary basis to enable safe construction of the Project, including construction laydown and work areas, stockpile and storage areas, non-resident workforce accommodation, facilities (such as Whetstone Material Distribution Centre (MDC) located at chainage 45 km, assessment detailed in EIS Appendix AE: Whetstone Material Distribution Centre Supporting Technical Information), temporary erosion control structures, areas for concrete batch plants, movement of construction traffic and borrow pits (detailed assessment in EIS Appendix AD: Borrow Pits Supporting Technical Information).

The Project footprint crosses through eight sub-catchments of the Condamine River basin and the Border Rivers basin, each of which are recognised for their own unique EVs, as outlined in Table 2.2. The impact assessment area is shown on Figure 1.1 in relation to the Project alignment and surrounding hydrological features.

1.3 Overview of surface water environment

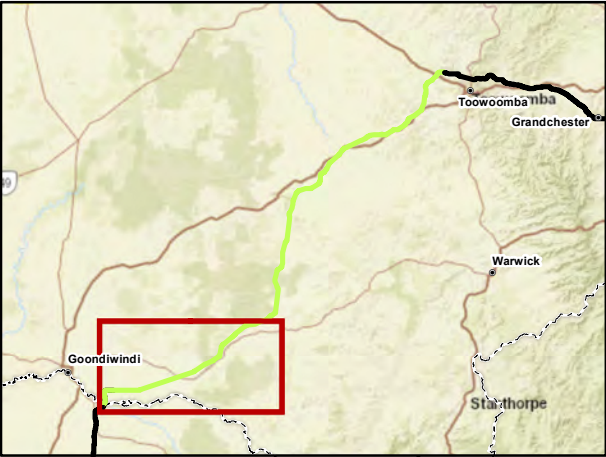
The Project is located across two surface water catchment areas, the Condamine River basin and the Border Rivers basin (Section 4.2). The Project footprint extends through the Borders Rivers basin from the NSW/QLD border to approximately 15 km southwest of Millmerran (Chainage (Ch) 117.0 km). From this point, the Project footprint is located in the Condamine River basin until its northern end point at Ch 208.48 km.

Both catchments reside within the larger Murray-Darling Basin, and cross QLD/NSW state borders. Multiple watercourses and waterbodies occur within the impact assessment area. These are discussed in Section 4.6 and shown on Figure 1.1.



Legend

- 5 Chainage (km)
- Localities
- Existing rail
- North Star to NSW/QLD border alignment
- NSW/QLD border to Gowrie alignment
- NSW/QLD border
- Major roads
- Minor roads
- Defined watercourses
- Drainage Features
- Unmapped watercourses (Water Act 2000)
- NSW/QLD border
- Construction facilities
- Surface water impact assessment area
- Local Government Areas



A3 scale: 1:200,000
0 1.5 3 4.5 6 7.5km

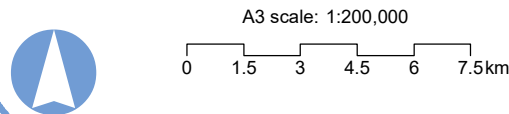
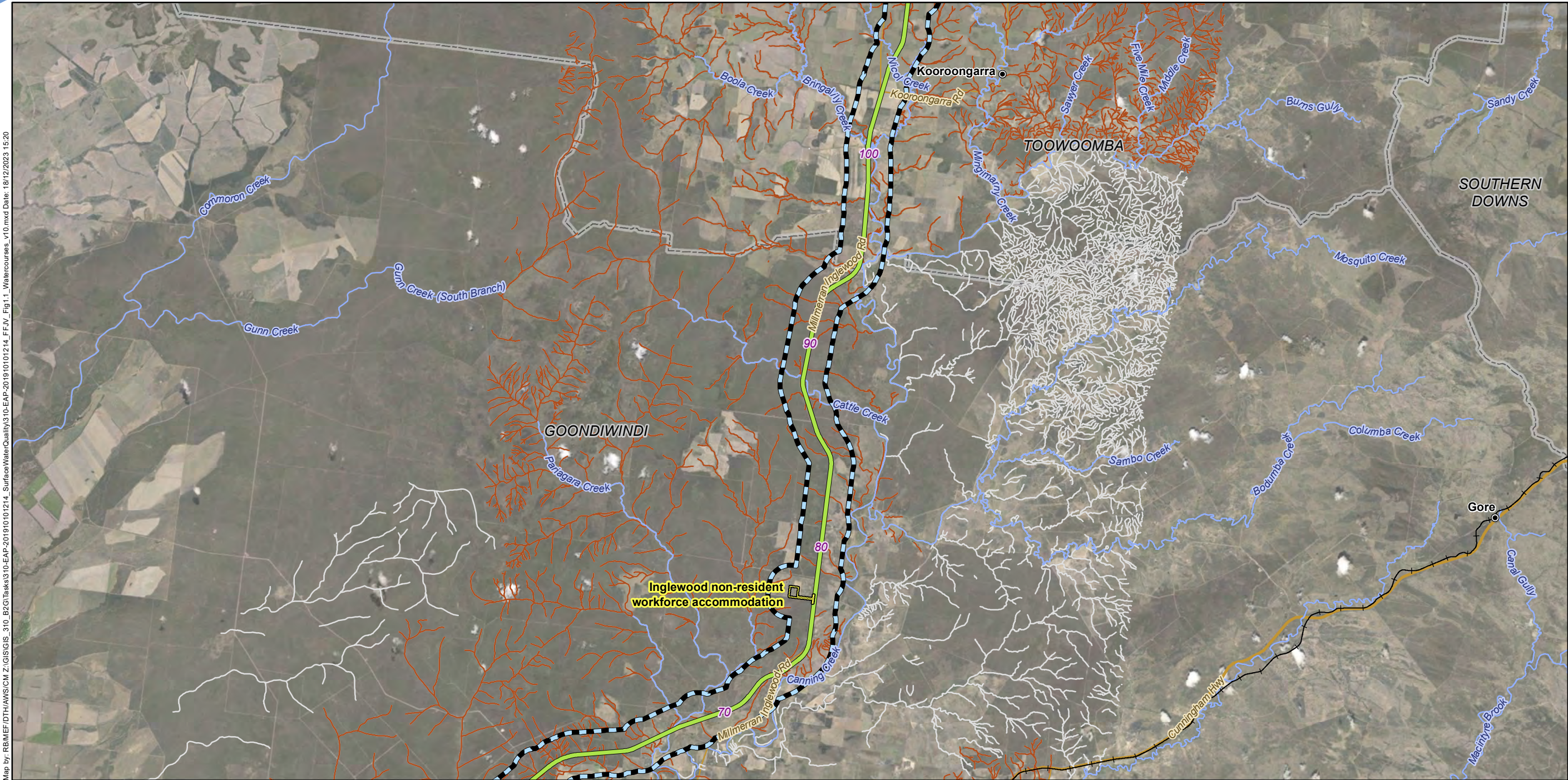


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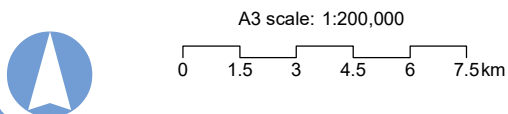
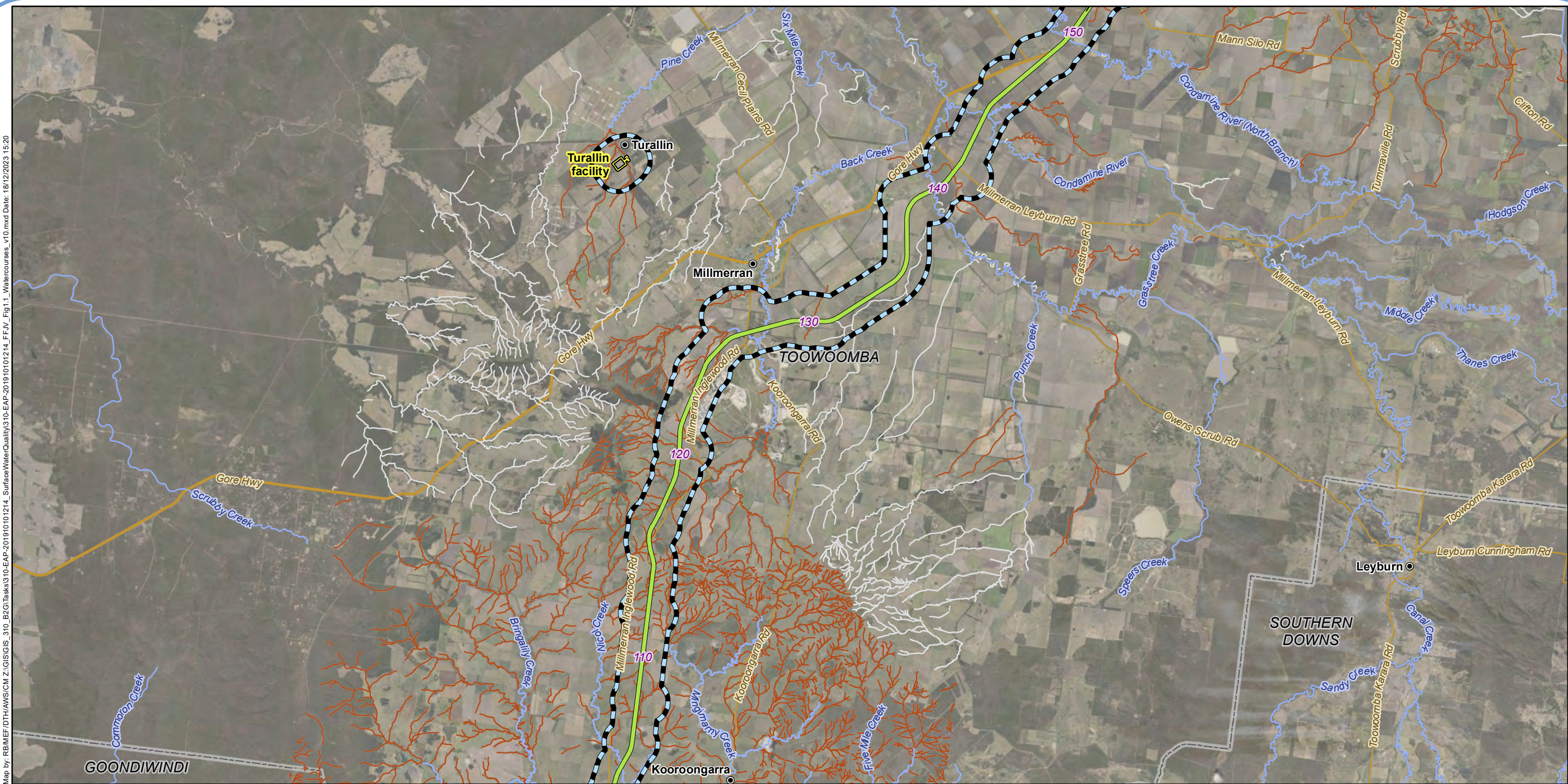
NSW/QLD border to Gowrie

Figure 1.1a:

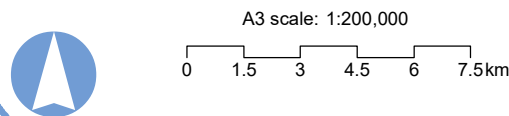
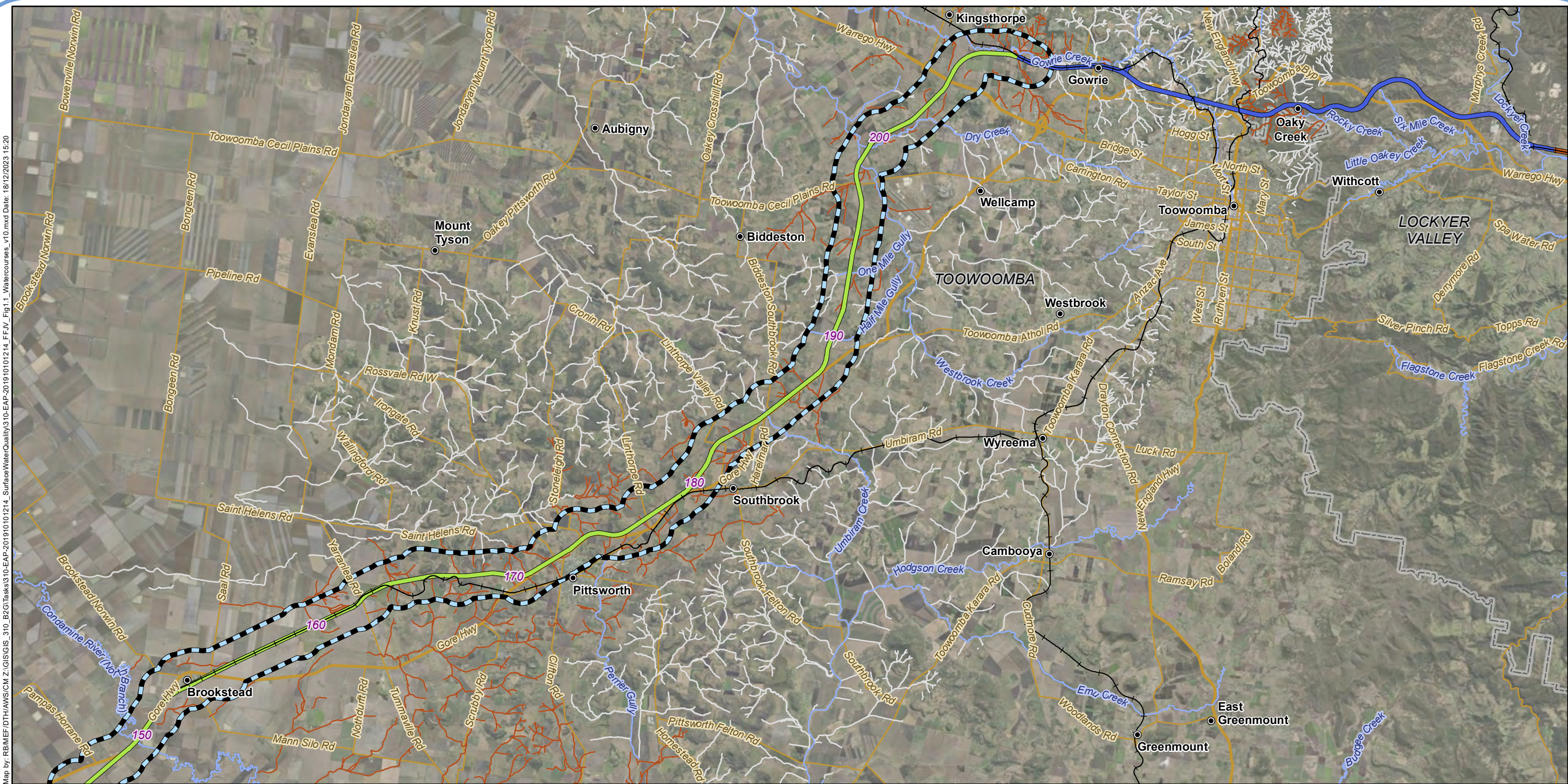
Surface water quality impact assessment area



NSW/QLD border to Gowrie
Figure 1.1b:
Surface water quality impact assessment area



NSW/QLD border to Gowrie
Figure 1.1c:
Surface water quality impact assessment area



1.4 Project description

The Project is a 217.48 km section of new dedicated single track, open access freight railway between the NSW/QLD border and Gowrie, in Queensland. The Project is comprised of 7 km of standard-gauge rail (1,435 millimetres (mm)) and 210.48 km of dual standard/ narrow-gauge rail (1,435 mm standard and 1,067 mm narrow). The new railway will comprise approximately 149.48 km of new rail corridor (greenfield) and approximately 68.00 km of existing open access rail corridor (brownfield), that forms part of Queensland Rail's South Western Line and Millmerran Branch Line.

The Inland Rail Project creates a shorter path for freight between Melbourne and Brisbane than the current roads and railways. This aligns with the government's goal of building a long-lasting rail system for efficient freight transport.

The Project consists of the key permanent and temporary features listed in Table 1.1.

Table 1.1 Key features of the Project

Aspect	Description
Permanent features	
New track	- Approximately 217.48 km of railway, consisting of: 7.0 km of standard gauge rail (1,435 mm) 210.48 km of dual gauge rail (standard (1,435 mm) and narrow (1,067 mm)). - Railway infrastructure and the corridor will initially be constructed for 1,800 m long trains.
Rail corridor	- Establishment of approximately 149.48 km of new rail corridor and use of approximately 68.00 km of existing rail corridor 30 m (minimum) however, it is wider, as required, to accommodate the earthworks associated with large cuts and fills, drainage works, rail infrastructure, access roads and fencing.
Crossing loops and turnouts	- Crossing loops are places on a single-line track where trains in opposing directions can pass each other. Five crossing loops will be constructed as part of the Project, at a minimum of 2,200 m in length for each loop. - Turnouts allow the train to be guided from one section of track to another. Turnouts that connect in to crossing loops and Queensland Rail's existing South Western Line, Millmerran Branch Line and sidings have been incorporated into the reference design.
Bridges	Bridges to accommodate topographical variation, crossings of waterways or other infrastructure. No tunnels have been incorporated into the design of the Project.
Drainage	- Cross-drainage is provided by reinforced concrete pipe culverts and reinforced concrete-box culverts - Scour protection measures will be installed around culverts and abutments to prevent erosion.
Rail crossings	Rail crossings, including level crossings, grade separated crossings (rail or road overbridges) and occupational/private crossings.
Ancillary works	- The construction of associated railway infrastructure, including maintenance sidings and signalling infrastructure to support Advanced Train Management Systems - Ancillary works, including non-resident workforce accommodation facilities, borrow pits, concrete batch plants, road and rail crossings and realignments, fencing and provision of services within the corridor (excluding those undertaken in enabling works) and rail maintenance access roads.
Embankments and cuttings	Embankments and cuttings will be required along the length of the rail alignment. The cuttings will be permanently drained.

Aspect	Description
Temporary features (to support construction)	
Land	- Temporary access tracks will be used to access construction sites. Where possible, access tracks will be retained to serve as rail maintenance access roads during the operation of the Project. - Land requirements for construction will include temporary workspaces, site offices and laydown facilities. These requirements are encompassed within the nominated temporary footprint for the Project. - Laydown areas will be located approximately every 5 km (avoiding 1% annual exceedance probability (AEP) floodplains, where possible). Larger sites will be located approximately every 20 km (this includes the Turallin Facility).
Non-resident workforce accommodation facilities	Non-resident workforce accommodation sites have been included in the temporary footprint to accommodate the Project construction workforce requirements, one at Inglewood and another at Yelarbon. A third non-resident workforce accommodation site will be required in the Millmerran area and feasibility assessments will be undertaken to identify the optimal location for the site. The site selection and due diligence associated with locating a Millmerran based non-resident workforce accommodation will be undertaken during detailed design.
Material Distribution Centre	A temporary MDC in Whetstone will support construction activities for the Project. The onsite facilities are to include ballast stockpiles and sleeper and rail storage and rail welding facilities/generators. Part of the site will also potentially be used for onsite material stockpiling which overall, pose a risk for discharge of hazardous material and chemicals in a flooding event.
Turallin facility	Inclusion of a 20 ha site in the temporary footprint to be utilised for a laydown area, a training facility or native plants nursery and traditional land management training facility (proposed land use subject to on-going negotiations between Australian Rail Track Corporation (ARTC) and the landowners).

1.4.1 Bridges

The Project involves the construction of new bridge structures over watercourses and/or floodplains. The new bridge structures are typically founded on driven precast or bored in situ piled foundations, supporting in situ reinforced concrete substructures. Bridge superstructures are typically formed from pre-stressed precast concrete girders with in situ decks incorporating walkways, guardrails and barriers as appropriate. The bridges are of various lengths and spans to suit the Project alignment and topography.

New rail bridges that are proposed to cross watercourses or roads are summarised in Table 1.2.

Construction activities may involve the excavation or placement of fill or the removal of vegetation. The revised reference design will continue to be developed during detailed design to minimise the extent of impacts to waterways, riparian vegetation and in-stream flora and habitats, in accordance with the intent of:

- Riverine protection permit exemption requirements* (WSS/2013/726) (Department of Regional Development, Manufacturing and Water (DRDMW), 2023)
- Accepted development requirements for operational work that is constructing or raising waterway barrier works* (Department of Agriculture and Fisheries (DAF), 2018).

Table 1.2 Summary of rail bridges

Bridge name	Chainage start (km)	Chainage end (km)	Crossing type	Bridge length (m)
Macintyre River Viaduct	30.6 (NS2B)	31.1 (NS2B)	Watercourse	535
Macintyre Floodplain #1 Rail Bridge	31.4 (NS2B)	31.6 (NS2B)	Watercourse	140
Macintyre Floodplain #2 Rail Bridge	32.2 (NS2B)	32.8 (NS2B)	Watercourse	546
Macintyre Brook Rail Bridge 1	52.4	52.7	Watercourse	207
Macintyre Brook Rail Bridge 2	55.4	55.6	Watercourse	207
Bybera Road Rail Bridge	60.5	60.6	Road	75

Bridge name	Chainage start (km)	Chainage end (km)	Crossing type	Bridge length (m)
Pariagara Creek Rail Bridge	67.2	67.5	Watercourse	345
Cattle Creek Rail Bridge	88.2	88.3	Watercourse	138
Native Dog Creek Rail Bridge	93.8	94.0	Watercourse	184
Bringalily Creek 1 Rail Bridge	97.4	97.7	Watercourse	299
Bringalily Creek 3 Rail Bridge	100.1	100.7	Watercourse	621
Nicol Creek Rail Bridge	104.3	104.4	Watercourse	92
Millmerran–Inglewood Road Rail Bridge #2	115.5	115.6	Road	75
Commodore Peak Road Bridge	123.9	124	Road	75
Millmerran–Inglewood Road Rail Bridge #3	126.9	127.1	Road	167
Back Creek Rail Bridge	127.9	128.1	Watercourse	230
Grasstree Creek Rail Bridge	139.0	140.6	Watercourse	1,330
Condamine River South Branch Rail Bridge	142.6	143.3	Watercourse	658
Condamine River Main Branch Rail Bridge	143.9	146.4	Watercourse	2,577
Condamine River North Branch Rail Bridge	149.1	150.6	Watercourse	1,568
Yarranlea Road Rail Bridge	162.5	162.6	Road	69
Roche Road Rail Bridge	164.5	164.6	Road	121
Oakey Pittsworth Road Rail Bridge	172.2	172.3	Road	69
Lochaber Road Rail Bridge	173.7	173.8	Road	75
Biddeston–Southbrook Road Rail Bridge	184.8	185.0	Road	144
Athol School Road Rail Bridge	189.3	189.4	Road	75
Toowoomba–Cecil Plains Road Rail Bridge	197.3	197.4	Road	92
Westbrook Creek Rail Bridge	198.4	198.6	Watercourse	230
Dry Creek Rail Bridge	199.1	199.3	Watercourse	184
Brimblecombe Road Rail Bridge	199.9	200.0	Road	75
Warrego Highway Rail Bridge	204.3	204.4	Road	132
Chamberlain Road Rail Bridge	205.7	206.0	Road	299

Table note:

The Project's rail alignment commences from Ch 30.6 km (NS2B). Macintyre Viaduct length connecting south of the border beyond Ch 30.6 km (NS2B) is not included in the Project's footprint.

1.4.2 Drainage infrastructure

1.4.2.1 Cross-drainage

Cross-drainage structures have been incorporated into the revised reference design where the Project intercepts watercourses and other drainage features. The type of cross-drainage structure included depends on various factors such as the natural topography, rail formation levels, direction of flow and soil type.

Bridges are proposed at all major waterway crossings to minimise disturbance to the existing flow regime. In some instances, bridges are provided in locations which may have multiple drainage features passing under the rail corridor, such as across the Condamine River floodplain.

Cross-drainage structures, including culverts, have been incorporated into the revised reference design to enable the Project to achieve the flood immunity specified in the Basis of Design of a 1% AEP event. Culverts incorporated into the design are a mix of reinforced concrete pipe culverts and reinforced concrete box culverts. The location and design of culverts will be refined, if required, during detailed design.

Scour protection measures have been included to avoid erosion around culvert entrances and exits, on disturbed stream banks and on land bound by a watercourse. Scour protection or energy dissipation measures have been specifically designed and sized for each culvert location in accordance with Austroads *Guide to Road Design Part 5B: Drainage – Open Channels, Culverts and Floodways* (Austroads, 2013b) (AGRD) with consideration for flow velocity, soil type and vegetation cover. Scour protection measures incorporated into the revised reference design for culverts include:

- Concrete apron
- Concrete wingwalls
- Rock mattress scour protection, with geotextile underlay.

Scour protection measures for culvert outlets have been designed to ensure that the maximum allowable flow velocities in a 1% AEP, as specified in Table 3.1 of AGRD, are not exceeded.

In addition to initial scour protection requirements identified during the revised reference design, areas immediately downstream of culvert outlets that may experience Flood Impact Objective velocity exceedances or exceedances of erosive threshold velocity values have been identified, and additional scour protection allowed for within the revised Reference Design. Further detail is included in EIS Appendix T: Flooding and Hydrology Technical Report.

The scour protection length and minimum rock size (d50) have been determined from Figure 3.15 and Figure 3.17 in AGRD. All required scour lengths were predicted to fit within the rail corridor.

The number, location and sizing of culverts included in the revised reference design for the following floodplains are provided in EIS Appendix T: Flooding and Hydrology Technical Report:

- Gowrie Creek
- Westbrook Creek and Dry Creek
- Condamine River
- Back Creek
- Nicol Creek
- Bringalily Creek
- Cattle Creek
- Pariagara Creek
- Macintyre Brook
- Macintyre River.

1.4.2.2 Longitudinal drainage

The purpose of longitudinal or track drainage is to remove water that has percolated through the track ballast, and to divert surface runoff to the nearest bridge or culvert location before it reaches the subgrade. Without adequate track drainage, the subgrade may become saturated leading to weakening and subsequent failure of the subgrade.

Two types of track drainage are proposed:

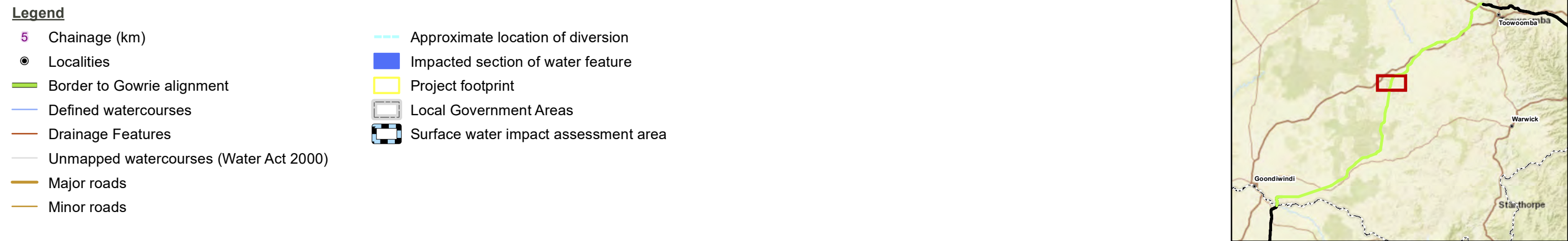
- Embankment drains – longitudinal drains that run parallel to the railway and are located within the rail corridor, at the foot of the railway embankment
- Catch drains – longitudinal drains that run parallel to the railway and are located within the rail corridor, on the up-slope side of cuttings.

Track drainage is proposed at specific locations along the Project alignment where the gradient is steep enough to divert surface runoff to the nearest bridge or culvert location. As with culverts, the design and location of track drainage will be refined, if required, during the detailed design stage.

1.4.3 Waterway diversions

No watercourse diversions (as defined in the *Water Act 2000* (Qld) (Water Act)) are required for the proposed Project footprint. However, the revised reference design includes minor diversion for two flow paths that are mapped as drainage features under the Water Act (Figure 1.2):

- One trapezoidal diversion drain is required from Ch 120.76 km to 121.43 km to divert runoff from the west away from the rail in cut at a small unnamed tributary of Back Creek (Figure 1.2a) and will be part of a rail alignment longitudinal drainage
- At Ch 191.96 km a trapezoidal diversion drain is proposed where the rail embankment overlays an existing flow path at an unnamed tributary of One Mile Gully (Figure 1.2b).



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0 0.5 1 1.5 2 2.5km

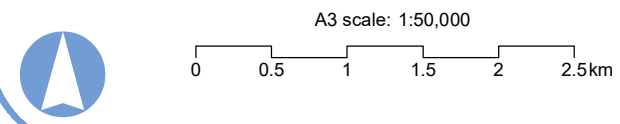
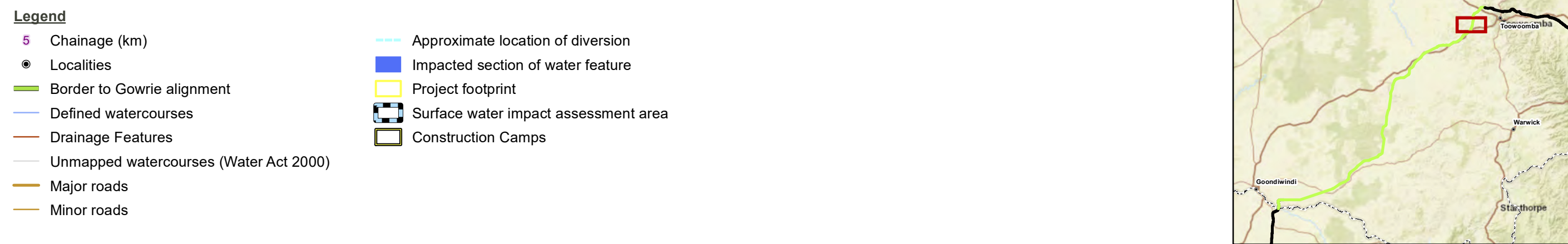
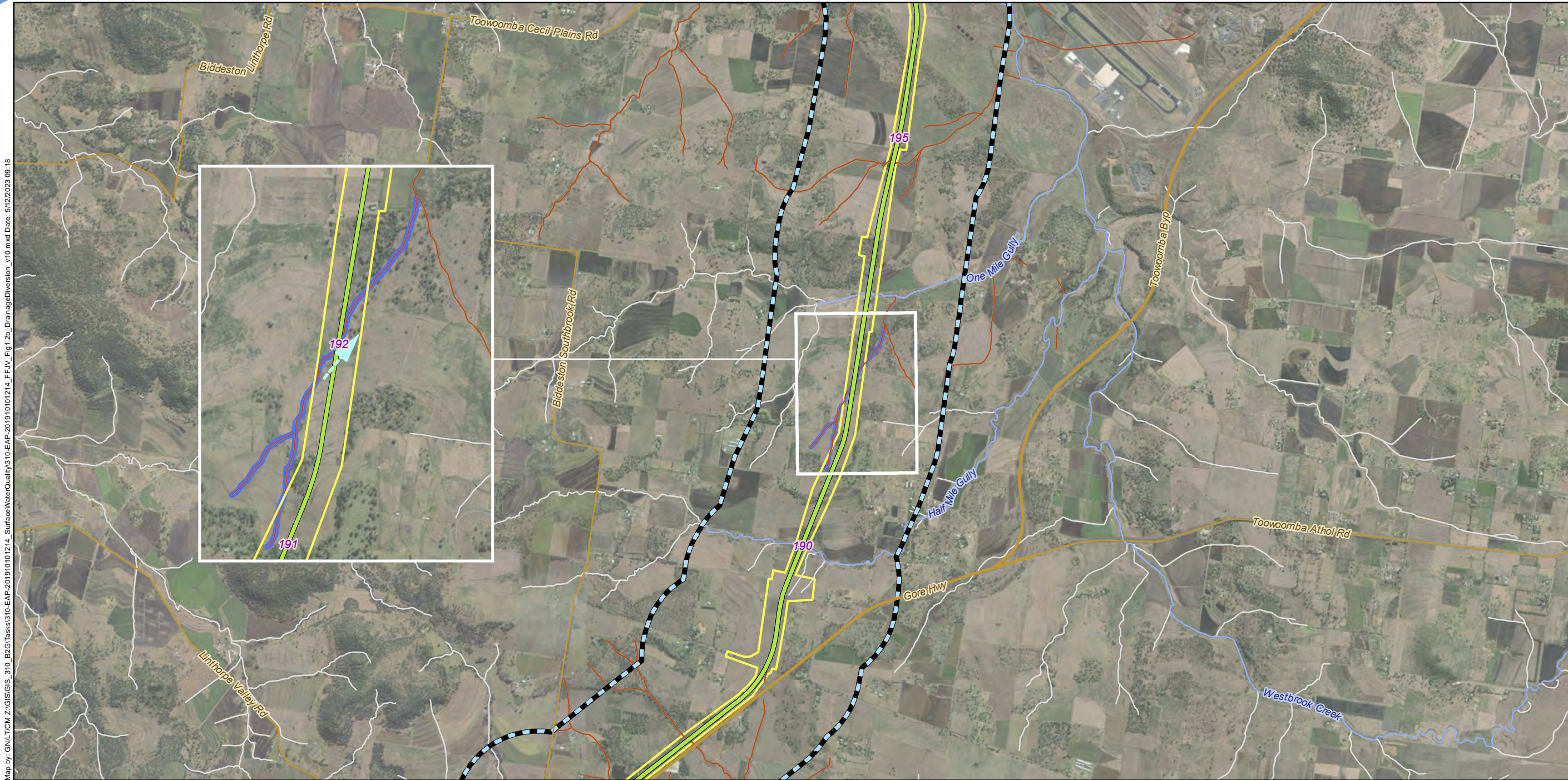


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Border to Gowrie

Figure 1.2a:

Waterway diversion associated with impact assessment area



1.4.4 Sediment basins

Temporary site drainage and water management controls will be installed in order to minimise the impacts of runoff and sedimentation from construction activities on adjacent receptors.

Temporary site drainage and water runoff management will be in line with the International Erosion Control Association's *Best Practice Erosion and Sediment Control* document (2008) and will:

- Minimise runoff and sedimentation from Project activities to watercourses and drainage features
- Minimise disturbance to the water quality of watercourses and drainage features along the Project footprint.

The revised reference design includes 20 sediment basins, as identified in Table 1.3. All of the proposed sediment basins are passive which allows surface runoff from a catchment to flow into the sediment basin without the need for pumping.

The locations of sediment basins are shown in working plans and longitudinal sections presented in EIS Appendix B1: Design Drawings.

The placement and sizing of sediment basins for the Project has been established based on the landform and earthworks required to construct the revised reference design. Therefore, the placement and sizing of sediment basins will need to be reassessed and revised, as required, during detailed design. Sufficient allowance has been included in the Project footprint for sediment basins to be relocated and/or resized, as required to support the detailed design.

Table 1.3 Sediment basins for construction works stage of the Project

Sediment basin ID and chainage	Catchment size (m ²)	Settling volume (m ³)	Total volume (m ³)
Sediment basin 1 (Ch 48.4 km)	50,000	581	871
Sediment basin 2 (Ch 55.5 km)	60,000	697	1,046
Sediment basin 3 (Ch 60.4 km)	48,000	558	837
Sediment basin 4 (Ch 61.6 km)	30,000	349	523
Sediment basin 5 (Ch 63.2 km)	20,000	232	349
Sediment basin 6 (Ch 97.8 km)	40,000	465	697
Sediment basin 7 (Ch 125.5 km)	55,000	639	959
Sediment basin 8 (Ch 164.3 km)	20,000	232	349
Sediment basin 9 (Ch 171.8 km)	25,000	290	436
Sediment basin 10 (Ch 173.8 km)	83,000	964	1,447
Sediment basin 11 (Ch 181.2 km)	60,000	697	1,046
Sediment basin 12 (Ch 184.7 km)	40,000	465	697
Sediment basin 13 (Ch 187.2 km)	20,000	232	349
Sediment basin 14 (Ch 190.1 km)	45,000	523	784
Sediment basin 15 (Ch 192.1 km)	27,000	314	417
Sediment basin 16 (Ch 193.1 km)	60,000	697	1,046
Sediment basin 17 (Ch 196.9 km)	45,000	523	784
Sediment basin 18 (Ch 199.3 km)	62,000	720	1,081
Sediment basin 19 (Ch 205.7 km)	63,000	732	1,098
Sediment basin 20 (Ch 206.0 km)	60,000	697	1,046

Table note:

m² = square metres

1.4.5 Construction water

Consultation has commenced with potential water suppliers to gauge interest in providing water for the Project. The ARTC is committed to ongoing consultation with DRDMW to confirm the ability to source water from any identified (and agreeable) licenced private water sources (e.g. in the instance the allocation type requires modification).

Further detail on construction water and relevant licensing is detailed in Appendix B5: Construction Water

1.4.5.1 Water requirements

Water will be required for various activities associated with construction of the Project, including for earthworks, track works, concrete production, revegetation and the operation of non-resident workforce accommodations. The following sections provide a discussion on the estimated water demand for each of these purposes. Actual water usages may vary, dependent on earthworks and revegetation quantities following detailed design, climatic conditions and construction methodologies.

Earthworks

The greatest water demand for the Project will be for civil earthworks, which predominately includes conditioning of fill material, haul road and laydown pad maintenance, and dust suppression.

The rates of water application for earthworks activities have been adopted based on the rates used during earthworks for a recent transport infrastructure project in the region and are as follows:

- Material conditioning is expected to require approximately 100 litres per cubic metre (L/m³) of fill, however this is variable, dependent on material properties
- General dust suppression during rail and road formation works. An allowance of 50 L/m³ of fill has been made.
- Maintenance of rail and road embankment. An allowance of 40 L/m³ of fill has been made.

Estimated water volumes for earthwork activities along the Project footprint are presented in EIS Appendix B5: Construction Water (Table 1-5).

Track works

Water is required during track works for dust suppression during ballast dropping and tamping.

Based on previous rail project experiences, a conservative allowance of 6 litres (L) per track metre has been assumed for dust suppression during ballast dropping and 4 L per track metre for dust suppression during tamping and regulating activities.

Revegetation

Water will be required for ground preparation and for establishment of vegetation during reinstatement and rehabilitation of the Project footprint. During the establishment period watering will:

- Be 'misted' or conducted in a manner that does not cause damage, run-off or subsequent erosion or displacement of treated areas
- Not spray onto, flow across or pond on paved areas including roadways
- Be in general accordance with the watering schedule and rates presented in EIS Appendix B5: Construction Water, which are based on those adopted by Department of Transport and Main Roads in Technical Specification MRTS16: Landscape and Revegetation Works (2017).

For the purpose of estimating water requirements for revegetation, it has been assumed that all embankments will be revegetated. This is a conservative estimate, as some embankments will be stabilised using alternative treatments (e.g. shotcrete or rock scour protection). The areas to be revegetated, by chainage range, are presented in EIS Appendix B5: Construction Water.

The estimated construction water requirements for civil earthworks, track works and revegetation are detailed for each of the chainage ranges in EIS Appendix B5: Construction Water. The daily and total cumulative water requirements for the Project over the construction period are shown in EIS Chapter 5: Project Description.

Non-resident workforce accommodations and site offices

The total daily water usage for non-resident workforce accommodations is largely determined by occupancy numbers and includes water used for the following purposes:

- Toilets
- Showers
- Laundry
- Food preparation
- Lawns and garden care
- Cleaning.

ARTC received advice from a non-resident workforce accommodation service provider to determine the typical daily water requirement for a non-resident workforce accommodation. From this advice, it was concluded that an average daily volume of 250 L/person/day should be adopted to estimate the water usage for non-resident workforce accommodations as a conservative assumption,

The daily water usage for a single non-resident workforce accommodation camps will fluctuate with occupancy throughout the construction period. Based on a usage rate of 250 L/person/day, a 300 bed non-resident workforce accommodation will operate at between 50 and 100 per cent capacity (300 occupants), requiring 37.5 to 75.0 kilolitres (kL) of water per day.

Onsite package wastewater treatment plants are proposed for the non-resident workforce accommodation facilities. Water for reuse will be treated in accordance with the *National Water Quality Management Strategy: Australian Guidelines for Sewerage Systems – Effluent Management* (Agriculture and Resource Management Council of Australia and New Zealand and Australian and New Zealand Environment and Conservation Council, 1997) to a standard appropriate for the intended use, so that the treated water has the potential to be used for irrigation or dust suppression. Wastewater will be used on-site for these water demands so as to minimise the volumes of water that must be imported, and to minimise the volumes of wastewater requiring disposal. This will maximise rates of wastewater capture, treatment and reuse within a non-resident workforce accommodation. Any wastewater not re-used on site and/or by-products of treatment not suitable for reuse will be taken off-site for lawful disposal by a licenced waste contractor. Depending on the technologies that are adopted, water can be recycled for immediate use as non-potable water. A key objective of the Inland Rail Sustainability Strategy is to maximise on-site reuse of wastewater generated by non-resident workforce accommodation, to avoid water being carted offsite for treatment and discharged.

A breakdown of water usage scenarios for a single non-resident workforce accommodation is presented in and discussion on the quality and sourcing of water for non-resident workforce accommodation is provided in EIS Appendix B5: Construction Water.

Concrete batching

The Project is expected to rely on a combination of existing commercial concrete batching plants and a temporary plant for the batching and precast of concrete, established to service the Project.

Due to the large distance between the Project footprint and the commercial supply of pre-cast structures and due to the high demand for concrete structures associated with bridge structures and culverts in this location, two locations for temporary plants have been identified. These plants with combined concrete batching and precast functions, have been nominated in the Toowoomba local government area to service the Project, one at Ch 138.5 km (Yandilla) and another at Ch 152.0 km (Dieckmann Road) (Section 6.1.1). The demand for an onsite temporary concrete batching and precast plant is driven by the large number and scale of concrete structural elements that are included in the revised reference design for the crossing of the Condamine River floodplain.

A water requirement of 180 L/m³ has been estimated for the onsite batching of concrete (wet and precast). Using this rate, the water requirement for onsite concrete batching activities is estimated to be 13.5 megalitre (ML), as summarised in EIS Appendix B5: Construction Water.

1.4.5.2 Water quality requirements

Details on the water types, and quality requirements of each, that would be suitable for each anticipated end use are described in EIS Appendix B5: Construction Water.

Earthworks, track works and revegetation

Non-potable water will be used for earthworks, track works and revegetation activities.

Non-resident workforce accommodation facilities and site offices

Potable water will be required for drinking, cooking and showering. For all other non-resident workforce accommodation water uses (e.g. toilets, laundry, non-resident workforce accommodation maintenance), recycled or non-potable water may be appropriate.

Water for potable use is typically trucked in from mains standpipes or non-potable sources, treated onsite via package treatment plant and filtered. Water will need to be tested pre and post treatment to ensure that the quality requirements specified in the *Australian Drinking Water Guidelines* (National Health and Medical Research Council & Natural Resource Management Ministerial Council (NRMMC), 2011) are being achieved. Wastes generated through the treatment process and is unable to be re-purposed may be, e.g. reverse osmosis brine, are taken off-site for lawful disposal by a licenced waste contractor.

Cost-effective wastewater management strategies for wastes generated onsite are:

- The adoption of onsite treatment
- Any discharge will be class reasonable.

The appropriate standard of effluent quality to be used for on-land irrigation (such as dust suppression to reduce costs and emissions) with adequate exclusion areas from the non-resident workforce accommodation facilities and waterways.

ARTC will monitor generated wastes and onsite treatment during the construction works stage of the Project in accordance with the wastewater management strategy developed during the detailed design stage.

The supply of non-potable water may include recycled water. All recycled water providers are obliged to supply recycled water that is:

- 'Fit for use' and does not represent a 'public health risk', as defined in the *Public Health Act 2005* (Qld)
- Consistent with the quality requirements of:
 - The *Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 1)* (Environment Protection and Heritage Council (EPHC), 2006)

- For augmentation of drinking water supplies, the *Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 2) – Augmentation of Drinking Water Supplies* (EPHC, 2008)
- For harvesting and reuse of stormwater, the *Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Phase 2) – Stormwater Harvesting and Reuse* (EPHC, 2009).

Concrete batching

Concrete batching has specific water quality requirements in order to achieve structural integrity and asset life objectives. The water requirements for use in the supply of concrete are specified in:

- AS 1379–2007: Specification and supply of concrete (Standards Australia, 2007)
- AS 2159–2009: Piling – Design and installation (Standards Australia, 2009)
- AS 3600–2018: Concrete Structures (Standards Australia, 2018)
- Scaling and aggressivity potential (Langelier, 1946; Ryznar, 1944).

If a temporary batching and precast plant is established, a water supply of guaranteed quality will be required. A temporary concrete batching and precast plant would be established with onsite water storage tanks, which would be filled by water trucks drawing water from either a potable or recycled source. Dependent on quality, recycled water may require further treatment prior to being suitable for use in concrete batching.

1.4.5.3 Water sources

ARTC recognises that water sourcing and availability is critical to supporting the construction program for the Project. Sources of construction water will be finalised as the construction approach is refined during the detailed design stage of the Project (post-EIS). Through this process, refined water demand planning will be undertaken, including detailed contingency options, in the event that protracted dry seasonal conditions prevail and water supply options become unavailable.

The ultimate water sourcing strategy for the Project will be documented in a Construction Water Plan. Further detail regarding water sources for the Project is in EIS Appendix B5: Construction Water.

1.4.5.4 Access and reliability

Climatic conditions

Climatic conditions may affect the availability of water from supplemented and un-supplemented sources. Other sources are less likely to be affected. To compensate for this climatic variability in availability, ARTC has identified a wide range of potential sources with total volumes in excess of requirement. EIS Appendix B5: Construction Water discusses accessibility and reliability through climate conditions, private held allocations, and trading, entitlements and permits.

Monitoring and record keeping

Construction water will only be obtained from existing licenced and/or lawful sources, within the limits of applicable allocations or entitlements. No water will be sourced from potable networks or supplemented surface water sources that are managed by Toowoomba Regional Council (TRC) or Goondiwindi Regional Council (GRC). ARTC will ensure that any existing commercial arrangements for the access to and/or sale of water to other end users can be honoured by water entitlement holders.

Prior to taking water from existing licenced source points, the Project will obtain all necessary permits and licences and will enter into an agreement with the water entitlement holder to purchase water at a negotiated rate.

In all such instances, the take of water will be metered and/or recorded to ensure that volumes taken for the Project are within the allocated annual limits for each source. The take of water from a source will cease once the allocated annual limit has been reached.

For each take of water, the minimum information that will be recorded includes:

- The date the water was taken
- The time the take commenced and ceased
- The purpose for which the water was taken
- The source of water. If applicable, the relevant activities number of the overland flow storage
- The location from where the water was taken, including latitudinal and longitudinal coordinates including the specified datum, and adjacent lot on plan details
- The volume of water taken
- Any identified impacts on the environment and measures to remedy such impacts, e.g. the 'make good process' for groundwater bores (EIS Chapter 15: Groundwater)
- Any concerns or issues raised by other water users and arrangements put in place to address these.

1.4.6 Operational water

The Project's operational water requirements are anticipated to be minor relative to the construction works stage requirements. Water may be required to support localised maintenance activities, such as high pressure cleaning of culverts. The volumes required will be dependent on the specific activities and frequency of undertaking, and therefore cannot be quantified at this stage of the Project.

Vegetation planted as part of the landscaping design for the Project will be self-sustaining and will not require watering once established.

An assessment of the suitability of each source will need to be made for each maintenance activity requiring water, based on the following considerations:

- Legal access
- Volumetric requirement for the activity
- Water quality requirement for the activity
- Source location relative to the location of need.

Assessment of the recently commissioned Parkes to Narromine section was conducted to quantify operational water usage per day during operation. To account for use across the Project alignment, water use was averaged across the Parkes to Narromine alignment in order to allow scaling for the Project alignment. Operational water through Parkes to Narromine was principally used for undercutting and re-railing works, which typically occurs during short-term possessions. Water usage during a typical possession is considered to require around 0.75 ML for undercutting, tampering and re-railing.

Average metered operational water supply for Parkes to Narromine was equivalent to 1.63 kL/day approximately 0.5 ML. With consistent assumptions of use per kilometre of chainage, the Project alignment is considered to require approximately 1 ML per year.

Water trucks and local supply are considered to be adequate for the service of operational water requirements.

As such, operational water needs are expected to be approximately 1 ML per year for the Project alignment.

2 Regulatory and legislative framework

This section describes the legislative, policy and management framework for the Project, including:

- Legislative framework which applies to the assessment of surface water quality for the Project at the Commonwealth, State and local levels, and provides the statutory context for which the surface water quality assessment has been undertaken
- Statutory approvals that may be required as a result of potential impacts to surface water quality, based on consideration of the overall approvals pathway for the Project and the scope of applicable exemptions under applicable legislation
- EVs and WQOs that apply to surface waters within the impact assessment area.

2.1 Regulatory environment

An overview of the Commonwealth and State legislation, policies, standards and guidelines that are relevant to the surface water quality values of the Project, outlining the intent and applicability to the Project, is presented in Table 2.1.

Table 2.1 Regulatory context

Legislation, policy, or guideline	Relevance to the Project
Commonwealth	
<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth) (EPBC Act)	The EPBC Act provides that any action that has, will have or is likely to have, a significant impact of a matter of national environmental significance (MNES), requires assessment and approval from the Commonwealth Environment Minister. The Project has been determined to be a controlled action under the EPBC Act (EPBC 2018/8165) as a result of the Project's potential impacts on listed threatened species and communities. The Project will be assessed under the bilateral agreement between the Queensland and the Commonwealth governments. Aquatic MNES in the vicinity of the Project footprint are assessed within EIS Appendix O: Matters of National Environmental Significance Technical Report. Water quality impacts are associated with the predicted habitat (outside of the Project footprint) and ground-truthed data (inside the Project footprint) for aquatic MNES fauna.
<i>Water Act 2007</i> (Cth)	The <i>Water Act 2007</i> (Cth) provides the legislative framework for ensuring that the Murray–Darling Basin is managed in accordance with Australia's national interests. The <i>Water Act 2007</i> (Cth) recognises that Australian States manage water resources within their jurisdictions that occur within the Murray–Darling Basin. The Project traverses the Murray–Darling Basin Plan, the Basin Plan and the Queensland Water Plan, as described below: ■ The Murray–Darling Basin Plan (Basin Plan) is prepared under the <i>Water Act 2007</i> (Cth) subparagraph 44(3)(b)(i) and is the overarching plan to manage the basin as a whole connected system. ■ The Basin Plan was agreed to in 2012 by all the basin jurisdictions, including the Queensland Government. Under the Basin Plan, each Basin State and Territory government is required to prepare a water resource plan for each catchment identified in the Basin Plan. ■ The <i>Queensland Water Plan (Condamine and Balonne) 2019</i> and <i>Water Plan (Border Rivers and Moonie) 2019</i> have each been accredited by the Australian Government minister as being consistent with the Basin Plan.

Legislation, policy, or guideline	Relevance to the Project
State	
<i>Environmental Protection Act 1994</i> (Qld) (EP Act)	The objective of the EP Act is to achieve ecologically sustainable development by protecting Queensland's environment while allowing for development that improves the total quality of life, both now and in the future, in a way that maintains the ecological processes on which life depends. Under the EP Act, environmental protection policies are developed to cover specific aspects of the environment. It is an offence under Section 440ZG of the EP Act to unlawfully deposit or release a prescribed water contaminant in Queensland waters. However, under Section 493A of the EP Act, releasing contaminants to waters is lawful if provided for by an Environmental Authority (EA) or compliance with Section 319 can be demonstrated. Under the EP Act all persons have a General Environmental Duty to not carry out any activity that causes, or is likely to cause, environmental harm unless the person takes all reasonable and practicable measures to prevent or minimise the harm. An EA is required to undertake any prescribed Environmentally Relevant Activities (ERA), this is applicable to temporary works including: ERA 16: Extractive and screening activities and ERA 63 Sewage treatment. Construction water for the Project will be guided by these policies, EAs and ERAs to ensure all reasonable and practicable measures to prevent or minimise harm to waters is accounted for during Project activities.
<i>Environmental Protection (Water) Policy 2019</i> (EPP (Water and Wetland Biodiversity))	The purpose of the EPP (Water and Wetland Biodiversity) is to achieve the object of the EP Act in relation to waters and wetlands. That is, protecting Queensland's water environment while allowing for development that is ecologically sustainable. The EPP (Water and Wetland Biodiversity) lists the EVs and WQOs that need to be considered by planners and managers when making decision about waters and/or water quality. The Project has assessed the water quality within the area against the EPP (Water and Wetland Biodiversity), EVs and WQOs.
<i>Fisheries Act 1994</i> (Qld) (Fisheries Act)	Under the provisions of the Fisheries Act and the <i>Planning Act 2016</i> (Qld) (Planning Act), a development permit is required for operations work that is constructing or raising waterway barrier works unless the work is accepted development. Acceptable development requirements are defined in the DAF guideline: <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (2018), and at a minimum include standards such as: ■ Development work minimises impacts to waterways and fish habitat areas ■ Where works are for the replacement of an existing waterway barrier work, the defunct waterway barrier work is to be completely removed as soon as possible and within four weeks of the completion of the replacement works ■ For any part of the waterway bed or banks adjacent to the works that has been altered by the waterway barrier works, the site is restored and/or rehabilitated, including fish habitat elements. Inland Rail commits to ongoing consultation during detailed design with DAF, including about the acceptable development requirements regarding timing and construction timing for waterway for watery barrier works. The Project is likely to require applications for waterway barrier works or demonstrate compliance with acceptable development requirements. This will be further described in detailed design and early works and pre-construction activities stages of the Project.
<i>Planning Act 2016</i> (Qld) (Planning Act)	The Planning Act sets out a planning system for development assessment, plan making and dispute resolution. Under the Planning Act, development is either accepted, assessable or prohibited. Assessment is carried out through the Development Assessment Rules. The Project may trigger the requirement to obtain development permits for aspects of Project such as operational work that involves taking or interfering with water (dust suppression, earthworks and rehabilitation), or waterway barrier works. These aspects are assessable under Schedule 10 of the Planning Regulation 2017.

Legislation, policy, or guideline	Relevance to the Project
<i>Water Act 2000</i> (Qld) (Water Act)	The Water Act provides a framework under which catchment-based water plans are developed for sharing water between human consumptive needs and EVs (including environmental protection, irrigation, and stock watering). Water Plans relevant to the study area are the <i>Water Plan (Condamine and Balonne) 2019</i> and <i>Water Plan (Border Rivers and Moonie) 2019</i>. Both plans include performance indicators and objectives such as: ■ Environmental flow objectives ■ Water allocation security objectives. The following approvals under the Water Act may be relevant to the Project: The Project will require a riverine protection permit for undertaking works in a watercourse, lake or spring, unless an exemption applies. There will be an exemption where ARTC (as an approved entity) carry out the works in accordance with the <i>Riverine protection permit exemption requirements</i> (DRDMW, 2023). A water permit or water license may be required for work that involves the taking of or interfering with water. Development permit for operations works for levees unless the modification to levees complies with the accepted development requirements. The ARTC is listed as an entity under Schedule 2 of the <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023). Subject to detailed design, modification of the existing levee at Yelarbon may be required for Project works.
<i>Water – EIS information guideline</i> (DES, 2016)	This guideline, published by the Queensland government, advises proponents about the information and assessment requirements in relation to water resources, water quality, and associated EVs when preparing an EIS.
<i>State Planning Policy</i> (SPP) (Department of Infrastructure, Local Government and Planning (DILGP, 2017) (including State Planning Policy – state interest guideline, Water quality (DILGP, 2016)	The SPP is a key component of the Queensland land use planning system which expresses the State's interest (as defined under the Planning Act) in land use planning and development. The SPP defined the Queensland Government's state interests in land use planning and development which notably includes State transport infrastructure. The SPP includes a State interest policy relating to water quality that provides performance outcomes to ensure development is planned, designed, constructed and operated to manage stormwater and wastewater in ways that support the protection of EVs identified in the EPP (Water and Wetland Biodiversity). Whilst no components of the Project are assessable under the provisions of a local government planning scheme, State approval requirements will trigger the Chief Executive of the Department of State Development and Infrastructure as a referral agency for a number of applications, involving State interests. As such, relevant provisions of the SPP will be required to be addressed as part of the supporting application materials to be submitted (around water quality performance outcomes with discharge from tunnel infrastructure) and will be considered in the assessment process.
<i>Monitoring and Sampling Manual: Environmental Protection (Water) Policy 2009</i> (Department of Environment and Science (DES), 2018a)	The Monitoring and Sampling Manual provides an overview of the common techniques, methods and standards for the collection, handling, quality assurance and control, custodianship and data management in relation to water quality samples. The manual helps to ensure that monitoring data is collected in a consistent and scientifically accurate manner.
<i>ShapingSEQ South East Queensland Regional Plan 2023</i> (ShapingSEQ 2023) (DILGP, 2023)	ShapingSEQ 2023 is the Queensland government's plan to guide the future of the South East Queensland region. ShapingSEQ 2023 is based on the understanding that the region relies on its environmental assets to support our communities and lifestyles. ShapingSEQ 2023 provides strategies to protect and sustainably manage the region's catchments to ensure that the quality and quantity of water in waterways, aquifers, wetlands, estuaries, Moreton Bay and oceans meets the needs of the environment, industry and community. The ShapingSEQ 2023 update has been released for public consultation by the Queensland Government and amends the ShapingSEQ 2017. The Project has been identified as a key priority in the region and is considered to be consistent with ShapingSEQ 2023.

Legislation, policy, or guideline	Relevance to the Project
<i>Healthy Waters Management Plan Guideline</i> (DES, 2020a)	Under the <i>Healthy Waters Management Plan Guideline</i>, the Healthy Waters Management Plans are a key planning mechanism to improve the quality of Queensland waters under the EPP (Water and Wetland Biodiversity). Healthy Waters Management Plans provide an ecosystem-based approach to integrated water management. The Healthy Waters Management Plans provide: ■ Identification and mapping of EVs, desired levels of aquatic ecosystem protection and management goals for Queensland waters ■ WQOs under the <i>National Water Quality Management Strategy</i> (Australian Government, 2018) to protect the EVs. The relevant Healthy Waters Management Plans for the Project include: ■ Ch 30.6 km (North Star to NSW/QLD Border (NS2B)) to Ch 117.0 km: within the boundaries of the Border Rivers basin. The relevant EVs for the impact assessment area are described in the <i>Healthy Waters Management Plan: Queensland Border Rivers and Moonie River Basins</i> (DES, 2019a). ■ Ch 117.0 km to Ch 210.6 km: within the boundaries of the Condamine–Balonne River basin. The relevant EVs for the impact assessment area are described in the <i>Healthy Waters Management Plan: Condamine River Basin</i> (DES, 2019b). As the Queensland Border Rivers and the Condamine River basins are located within the Murray–Darling Basin, these Healthy Water Management Plans also contribute to the requirements of a Water Quality Management Plan under the <i>Commonwealth Water Act 2007—Basin Plan 2012</i>.
<i>Darling Downs Regional Plan 2013</i> (Department of State Development, Infrastructure and Planning, 2013b)	The <i>Darling Downs Regional Plan 2013</i> identifies priority outcomes for the region's transport network, which include prioritisation of transport programs to improve freight movement and reduce conflicts in urban areas with other network users. The plan also identifies opportunities for protecting the quality of the surface and groundwater quality of the region. The Project is considered to be consistent with the <i>Darling Downs Regional Plan 2013</i> via the adoption of WQO under Schedule 1 of EPP (Water and Wetland Biodiversity) as a basis of existing environment conditions.

2.1.1 Water quality guidelines

Various water quality guidelines were used to assess the quality of surface waters within the impact assessment area (Section 1.2) against defined reference conditions, which enabled the quantification of WQOs. Applicable guidelines are briefly described below.

2.1.1.1 Australian and New Zealand Guidelines for Fresh and Marine Water Quality

The *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (Australian and New Zealand Governments (ANZG), 2018) provide a method for assessing water quality through comparison with guidelines derived from local reference values.

The guideline values were developed based on the following criteria:

- Level of environmental disturbance of surface waters (i.e. highly or slightly/moderately disturbed waters)
- Freshwater or saline surface water
- Waterbody elevation (i.e. upland or lowland aquatic environments)
- Biogeographic region (i.e. southeast or tropical Australia).

Where local guideline values are not available, the ANZG 2018 Guideline values can be regarded as guideline trigger values that can be modified into regional, local, or site-specific guidelines, with consideration to the variability of the subject environment, soil type, rainfall, and contaminant exposure. Exceedances of the guideline trigger values indicate a potential environmental issue and trigger an environmental management response.

2.1.1.2 Queensland Water Quality Guidelines 2009

The *Queensland Water Quality Guidelines 2009* published by the Department of Environment and Heritage Protection (DEHP), now the Department of Environment, Science and Innovation (DEHP, 2009), provide a framework for assessing water quality in Queensland via the setting of WQOs. The *Queensland Water Quality Guidelines 2009* are intended to address the need identified in the ANZG 2018 Guideline by:

- Providing guideline values (numbers) that are tailored to Queensland region and water types
- Providing a process/framework for deriving and applying more locally specific guidelines for waters in Queensland.

2.1.1.3 Healthy Waters Management Plans

Healthy Waters Management Plans are a key planning mechanism to improve the quality of Queensland waters under the EPP (Water and Wetland Biodiversity). Healthy Waters Management Plans provide an ecosystem-based approach to integrated water management.

The Healthy Waters Management Plans provide:

- Identification and mapping of EVs, desired levels of aquatic ecosystem protection and management goals for Queensland waters
- The WQOs under the *National Water Quality Management Strategy* (Australian Government, 2018) to protect the EVs.

The relevant Healthy Waters Management Plans for the Project include:

- Ch 30.6 km (North Star to NSW/QLD Border (NS2B)) to Ch 117.0 km: within the boundaries of the Border Rivers basin. The relevant EVs for the impact assessment area are described in the *Healthy Waters Management Plan: Queensland Border Rivers and Moonie River Basins* (DES, 2019a)
- Ch 117.0 km to Ch 210.6 km: within the boundaries of the Condamine–Balonne River basin. The relevant EVs for the impact assessment area are described in the *Healthy Waters Management Plan: Condamine River Basin* (DES, 2019b).

As the Queensland Border Rivers and the Condamine River basins are located within the Murray–Darling basin, these Healthy Water Management Plans also contribute to the requirements of a Water Quality Management Plan under the Commonwealth *Water Act 2007—Basin Plan 2012*.

2.2 Water quality objectives and environmental values

The Project footprint traverses through the Border Rivers basin (Ch 30.6 km (NS2B) to Ch 117.0 km) and the Condamine River basin (Ch 117.0 km to Ch 208.2 km), as recognised under the EPP (Water and Wetland Biodiversity) (Figure 4.1).

The WQOs have been developed under the provisions of the EPP (Water and Wetland Biodiversity), under the EP Act, to support and protect different EVs identified for waters within both the Condamine River and Border River basin areas. Under the EVs, it is expected that each WQO is achieved in order to maintain existing water quality standards, or to achieve aspirational water quality standards, where present. Typically, median values from a site data set representing the existing environment are assessed against WQOs, however for this assessment, grab samples were assessed against the WQO with reference to prevailing conditions and trending data in regard to seasonal environment conditions.

2.2.1 Environmental values

The Project footprint crosses through eight sub-catchments of the Condamine River basin and the Border Rivers basin, each of which are recognised for their own unique EVs, as outlined in Table 2.2.

Table 2.2 Environmental values for sub-catchments that the Project footprint intersects

Environmental values	Aquatic Ecosystems	Irrigation	Farm Supply	Stock water	Aquaculture	Human consumer	Primary recreation	Secondary recreation	Visual recreation	Drinking water	Industrial use	Cultural, spiritual and ceremonial values
Sub-catchments of the Condamine River basin												
Upper Oakey	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hodgson Creek	✓	✓	✓	✓		✓			✓			✓
Ashall Creek	✓	✓	✓	✓					✓		✓	✓
Condamine River North Branch	✓	✓	✓						✓	✓	✓	✓
Condamine River South Branch	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓
Sub-Catchments of the Border Rivers basin												
Canning Creek	✓	✓		✓					✓			✓
Lower Macintyre Brook	✓	✓	✓	✓		✓	✓		✓	✓		✓
Macintyre Barwon Floodplain	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓

Source: DES (2019a, 2019b)

2.2.2 Water quality objectives

The Project footprint extends through the following water type zones within the Border Rivers and Condamine basins, as published in the relevant Healthy Waters Management Plan:

- Condamine River basin (DES, 2019b):
 - Oakey Creek
 - Central Condamine
 - Southern Condamine.
- Border Rivers basin (DES, 2018a):
 - Canning Creek
 - Lower Macintyre Brook
 - Macintyre Barwon floodplain.

The WQOs for each of these water type zones are presented in Table 2.3 and Table 2.4.

The WQOs in Table 2.3 are for physico-chemical parameters and are consistent with the accreditable water quality target values published in the relevant Healthy Waters Management Plan. The WQOs in Table 2.3 are presented for low flow and high flow conditions for moderately disturbed waterways. The moderately disturbed classification is applicable to the use of physico-chemical parameters for Queensland WQOs.

The WQOs in Table 2.4 are for heavy metals and other toxic contaminants and are consistent with the toxicant default guideline values published in the Australian Drinking Water Guidelines (ANZG, 2018). The ANZG does not have a classification for moderately disturbed waterways, and hence the slightly to moderately disturbed classification is applicable to the comparison with metals and other toxicants under the ANZG.

Table 2.3 Water quality objectives for moderately disturbed waters intersected by the Project

Water type zone	Water flow	Turbidity (NTU)	Total P (µg/L)	Chlorophyll a (µg/L)	Total nitrogen (µg/L)	Oxidised nitrogen (µg/L)	Ammonium N (µg/L)	Dissolved oxygen		pH	EC µS/cm	Salinity mg/L	TSS mg/L
								mg/L	% sat				
Condamine River basin ¹													
Oakey Creek (Sites 34 to 43)	Low flow	13	110	5	1,000	5	10	ID	60 to 110	7.7 to 8.3	510	N/A	14
	High flow	55	340	ID	1,280	ID	ID			7.4 to 8.1	380		65
Central Condamine (Sites 27 to 33)	Low flow	25	170	9	860	4	4			7.4 to 8.3	890		25
	High flow	220	950	4	2,200	480	ID			7.0 to 7.6	290		130
Southern Condamine (Sites 21 to 26)	Low flow	9	45	5	595	3	6			7.2 to 7.9	170		8
	High flow	25	60	ID	830	ID	ID			7.0 to 7.6	160		17
Border Rivers basin ²													
Canning Creek (Sites 9-20)	Low flow	35	30	ID	520	6	10	>5	60 to 110	7.2 to 7.8	200	N/A	25
	High flow	50	40	ID	600	ID	ID			6.9 to 7.9	165		60
Lower Macintyre Brook (Sites 3 to 8)	Low flow	11	55	ID	710	18	8			7.4 to 8.0	370		10
	High flow	25	70	ID	910	ID	ID			7.2 to 8.0	250		25
Macintyre Barwon Floodplain (Sites 1 to 2)	Low flow	30	70	3	575	10	20			7.4 to 8.0	240		25
	High flow	110	150	ID	900	195	ID			7.0 to 7.5	180		70

Source: 1. Healthy Waters Management Plan: Condamine River Basin (DES, 2019b); 2. Healthy Waters Management Plan: Queensland Border Rivers and Moonie River Basins (DES, 2019a)

Table notes:

P = phosphorus

EC = electrical conductivity

TSS = total suspended solids

ID = Insufficient data for determination of water quality objective

N/A = not applicable

NTU = Nephelometric Turbidity Units

µg/L = micrograms per litre

mg/L = milligrams per litre

µS/cm = microsiemens per centimetre

Table 2.4 Water quality objectives for protection of slightly to moderately disturbed waters: heavy metals and potentially toxic contaminants

Water type zone	Arsenic (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Naphthalene (mg/L)
Condamine River basin									
Oakey Creek	0.024	0.0002	0.0033	0.0014	0.0034	0.0006	0.011	0.008	0.016
Central Condamine	0.024	0.0002	0.0033	0.0014	0.0034	0.0006	0.011	0.008	0.016
Southern Condamine	0.024	0.0002	0.0033	0.0014	0.0034	0.0006	0.011	0.008	0.016
Border Rivers basin									
Canning Creek	0.024	0.0002	0.0033	0.0014	0.0034	0.0006	0.011	0.008	0.016
Lower Macintyre Brook	0.024	0.0002	0.0033	0.0014	0.0034	0.0006	0.011	0.008	0.016
Macintyre Barwon floodplains	0.024	0.0002	0.0033	0.0014	0.0034	0.0006	0.011	0.008	0.016

Source: ANZG (2018)

3 Methodology

The methodology adopted for the assessment of surface water has been established to provide sufficient information to determine:

- Existing receiving surface water condition
- Potential impacts to surface water quality and resources that may arise as a result of the Project
- Mitigation measures that can practicably be implemented throughout the Project stages to avoid or reduce the potential impacts to surface water
- Cumulative impacts to surface waters, as a result of Project activities occurring in parallel to activities of other projects in the region. Outcomes of this are presented and discussed in Section 9.

The existing condition of surface waters within the impact assessment area was established through assessment of publicly available datasets, in combination with water quality data collected across five sampling events (with seasonal variation).

In combination, these datasets were used to determine the quality of receiving waters within the impact assessment area and were subsequently used to assess the potential for impacts to surface waters to arise as a result of Project activities.

The assessment of potential impacts to surface water quality and resources was undertaken using a Project significance-based impact assessment framework, as described in EIS Chapter 4: Assessment Methodology. The significance-based impact assessment is appropriate to matters where impacts cannot be quantified and is considered appropriate for surface water.

In the context of surface water, the significance-based impact assessment method requires consideration of the likely sensitivity of a receptor (e.g. the quality or resource value of surface waters) and the magnitude (e.g. intensity, duration and spatial extent) of potential impact on that receptor. In combination, the sensitivity of a receptor and the magnitude of potential impact enable the significance of a risk to be established.

Further information on the adopted Project impact assessment methodology is provided in EIS Chapter 4: Assessment Methodology.

3.1 Surface water quality assessment

3.1.1 Desktop and literature review

This section details the desktop analysis undertaken to identify existing information pertaining to the surface water quality values of the impact assessment area. Details of the relevant database sources, search dates, search area parameters and type of information considered for the desktop study are summarised in Table 3.1. Where relevant, copies of search results are provided in Appendix D.

Table 3.1 Database review summary

Database/data source name	Database search date	Database search area	Data type
<i>Queensland waterways for waterway barrier works</i> (DAF, 2023)	December 2023	Impact assessment area	Waterways where proposed waterway barrier works require assessment and approval under the Fisheries Act
Watercourse Identification Mapping	May 2022	Impact assessment area	Known extent of watercourses and watercourses that are managed under the Water Act

Database/data source name	Database search date	Database search area	Data type
DRDMW Water Monitoring Information Portal (WMIP)	December 2023	Impact assessment area	Includes information pertaining to stream height and stream flow values from the department's water monitoring stations throughout Queensland, historic streamflow data from decommissioned river and stream monitoring stations and the Department's water monitoring network site lists
Climate data from the Bureau of Meteorology (BoM)	November 2023	Impact assessment area	Includes climate data for the impact assessment area, including rainfall, evaporation and temperature data
Water licences	December 2023	Impact assessment area	Water license data which provides information pertaining to active water licences along the impact assessment area and quantities available.

Details of the existing documentation and previous study reports which have been reviewed for the desktop study are summarised in Table 3.2. Several concurrent studies were being undertaken for the project, and the outcomes of these studies were used in the assessment where appropriate. Those studies included the assessment of land resources – EIS Chapter 9: Land Resources, EIS Appendix U: Groundwater, EIS Appendix T: Hydrology and Flooding Technical Report, EIS Appendix H: Geomorphology Report and EIS Appendix L: Terrestrial and Aquatic Ecology Technical Report.

Table 3.2 Assessments and reports relevant to the Project

Document title	Reference
Initial Advice Statement: Inland Rail – Border to Gowrie (2-3100-0000-EAP-RP-0001) February 2018	ARTC 2018
Australian Rail Track Corporation Limited/Transport – Land/Multiple lots/Queensland/Inland Rail Border to Gowrie Project, QLD (EPBC referral 2018/8165)	ARTC 2018
<i>Inland Rail – Border to Gowrie Aquatic Ecology Report</i> . Prepared for FFJV.	Eco Logical Australia (ELA) 2019
Inland Rail Brief: Tonnage Profile and Train Plan (0-0000-900-POP-00-BR-1000 Rev 2)	ARTC 2018
<i>Salinity Risk Assessment for the Queensland Murray–Darling Region</i>	Biggs et al. 2010b
<i>Strategic Salinity Risk Assessment in the Condamine Catchment</i>	Searle et al. 2007

3.1.2 Field assessment

The surface water quality field assessment was designed to provide sufficient information and to provide an understanding of existing EVs and potential impacts for the Project.

Water quality monitoring was conducted from June 2018 to May 2019 and December 2020 to November 2021 to characterise baseline conditions. The baseline monitoring allowed derivation of interim WQOs (Section 5.5 for further details). The interim WQOs will be used to identify any impact from construction works. The interim WQOs may be supplemented, to allow for full calculation of WQOs, by additional water quality sampling before commencement of construction.

The data collection approach is consistent with the *Monitoring and Sampling Manual 2018: Environmental Protection (Water) Policy* (DES 2018). The surface water quality field assessment methodology is described in further detail below.

Some of the proposed sampling sites were located on or required access through privately owned land. ARTC and FFJV coordinated access to private properties with the agreement of landowners. However, in some cases, access to private properties could not be negotiated or facilitated in the timeframes of the sampling events. In such cases, alternative sampling sites in accessible areas were selected, where practical (in regard to access and suitability of site).

3.1.2.1 Sampling locations

There were 43 sites along the Project footprint were initially selected as potentially suitable sampling sites. This allowed for removal of sites when land access proved to be problematic or if sites were unable to be accessed in the field. Additionally, the inclusion of a large number of potential sampling sites provided greater certainty that sufficient water would be present at a representative selection of sites in the event that dry conditions were experienced. A total of 20 sites were selected from an initial 43 locations identified as potentially suitable for sampling along the Project footprint. These 20 sampling locations are presented in Table 3.3 and Figure 3.1.

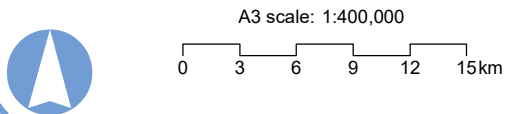
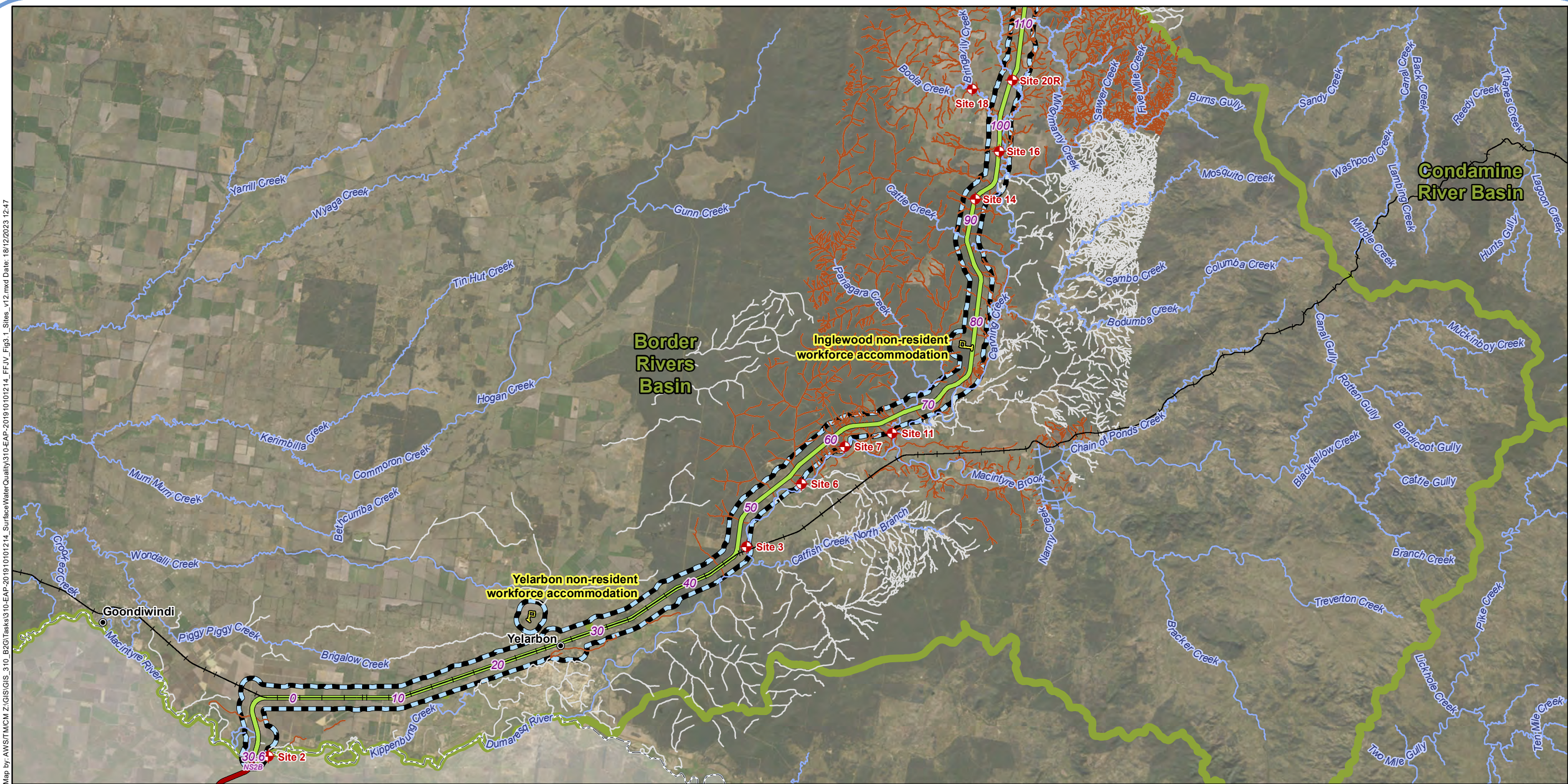
Sites were positioned as close as possible to locations where the revised reference design rail alignment traversed watercourses, waterways, or other drainage features. Sites were nominally assigned into one of the following categories:

- Aquatic ecology and surface water quality sites – where an assessment of aquatic ecology habitat values and surface water quality was to be undertaken
- Surface water quality sites – where assessment of surface water quality only was to be undertaken.

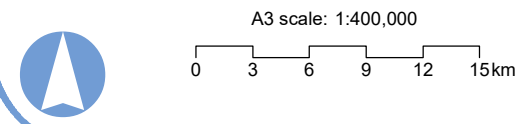
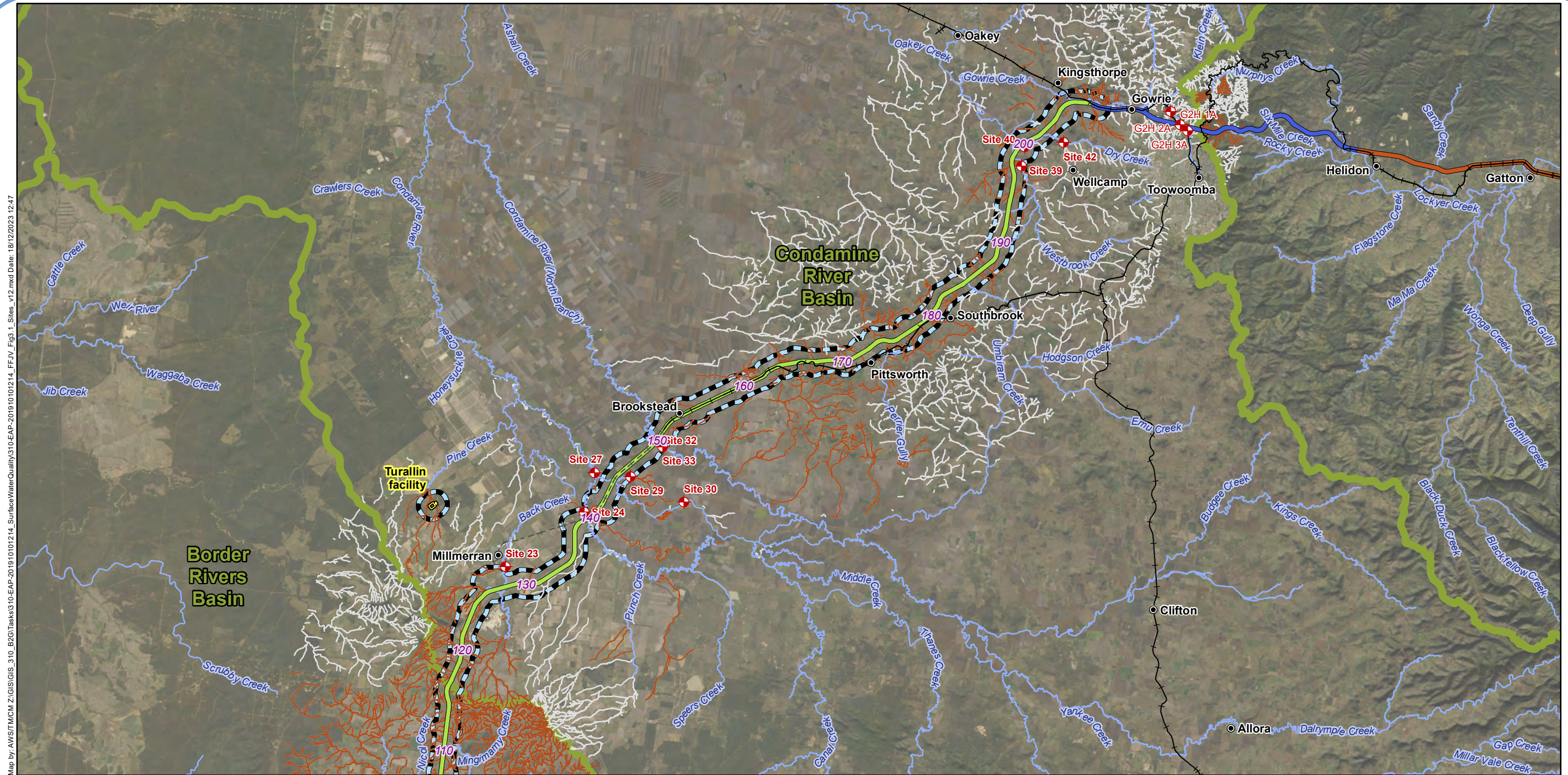
The distribution of sampling sites along the rail alignment was determined from a range of factors, including:

- Mapping and aerial photography products which provide information on aquatic habitat features, including DAF waterway barriers and DES aquatic habitat mapping
- Inclusion of waterways with a variety of stream orders within the Project footprint, ensuring water features of varying size and complexity were sampled
- Representation of a variety of aquatic habitat types and surrounding land uses (e.g. areas where remnant riparian vegetation was intact, and areas that had been subject to disturbance from existing infrastructure or agricultural land uses)
- A relatively even spread of survey sites along the Project footprint, to determine spatial variability in aquatic and water quality values
- Practicality of access to the site and the safety of field teams.

Where practical, surface water quality sites were located upstream and downstream of the revised reference design, if access was possible. This positioning of sampling sites ensured that the collected data retained value for assessment purposes in the event that localised alignment shifts occurred during the design development process.



Border to Gowrie
Figure 3.1a:
Surface water quality field assessment sites



Border to Gowrie
Figure 3.1b:
Surface water quality field assessment sites

Sites were assigned a number in approximate numerical order from west to east. On some occasions when a site could not be accessed, an alternative site was identified on public land nearby and labelled with the site number and the letter 'R' (e.g. Site 20R). This allowed the assessment of water quality information from areas adjacent to the original site.

Due to identification of replacement sites after the initial assessment, several of the replacement sites were assessed in two discrete sampling events during the start of April 2019 and the end of April 2019 (into May 2019). There were 20 water quality sites that were assessed across the whole water quality monitoring period (Table 3.3).

Due to access requirements, several water quality monitoring sites were located outside of the impact assessment area. All sites (including those outside of the impact assessment area) were considered to be representative of the existing environment, upstream or downstream of the Project footprint intersection of the assessed waterway. Waterbody names were determined by the Water Act watercourses and other related waterflow paths.

Table 3.3 Surface water survey sites assessed for water quality

Site	Site ID	Site location (zone 56J)		Waterway	Position	Water present at time of assessment			
		Easting	Northing			Jun 2018	Nov/ Dec 2018	Feb 2019	Apr 2019
2	B2GSW01.2	252526.14 m E	6826589.54 m S	Macintyre River	2.3 km upstream of the rail alignment	Yes	Yes	Yes	Yes
2R	B2GSW01.2R	254992.66 m E	6826197.88 m S	Macintyre River	1.5 km upstream of the rail alignment	No	Yes	Yes	Yes
3	B2GSW01.3	297987.40 m E	6846544.39 m S	Macintyre Brook	900 m downstream of rail alignment	Yes	Yes	Yes	Yes
6	B2GSW01.6	303224.05 m E	6852534.59 m S	Macintyre Brook	1.2 km downstream of rail alignment	Yes	Yes	Yes	Yes
7	B2GSW01.7	307340.87 m E	6856089.27 m S	Macintyre Brook	1.3 km downstream of rail alignment	Yes	Yes	Yes	Yes
11	B2GSW01.11	311857.57 m E	6857333.54 m S	Canning Creek	1.3 km downstream of rail alignment	Yes	Yes	Yes	Yes
14	B2GSW01.14	319758.71 m E	6879596.17 m S	Unnamed waterway	10 m upstream of rail alignment	Yes	Yes	Yes	Yes
16	B2GSW01.16	322034.45 m E	6884153.22 m S	Unnamed waterway	20 m downstream of rail alignment	Yes	Yes	Yes	Yes
18	B2GSW01.18	319459.85 m E	6890038.43 m S	Unnamed waterway	3 km upstream of rail alignment	No	No	Yes	Yes
20R	B2GSW01.20R	323287.61 m E	6890895.62 m S	Nicol Creek	20 m downstream of rail alignment	No	No	No	Yes
23	B2GSW01.23	330232.23 m E	6913921.81 m S	Unnamed waterway	1.8 km upstream of rail alignment	No	No	Yes	Yes
24	B2GSW01.24	337772.29 m E	6919155.06 m S	Grasstree Creek	670 m upstream of rail alignment	Yes	Yes	Yes	No

Site	Site ID	Site location (zone 56J)		Waterway	Position	Water present at time of assessment			
		Easting	Northing			Jun 2018	Nov/Dec 2018	Feb 2019	Apr 2019
27	B2GSW01.27	338748.32 m E	6922941.94 m S	Condamine River	2 km upstream of rail alignment	Yes	No	Yes	Yes
29	B2GSW01.29	342210.77 m E	6922517.08 m S	Unnamed waterway	900 m downstream of rail alignment	No	No	No	Yes
30	B2GSW01.30	347306.73 m E	6920094.77 m S	Condamine River	7 km downstream of rail alignment	Yes	Yes	Yes	Yes
32	B2GSW01.32	344676.97 m E	6926062.65 m S	Condamine River (North Branch)	20 m upstream of rail alignment	No	No	Yes	No
33	B2GSW01.33	345293.94 m E	6925389.04 m S	Condamine River (North Branch)	870 m downstream of rail alignment	No	Yes	No	No
39	B2GSW01.39	379694.11 m E	6952313.72 m S	Westbrook Creek	800 m downstream of rail alignment	Yes	Yes	Yes	Yes
40	B2GSW01.40	379972.90 m E	6954172.10 m S	Dry Creek	30 m downstream of rail alignment	Yes	Yes	No	Yes
42	B2GSW01.42	383710.24 m E	6954556.98 m S	Dry Creek	2.17 km downstream of rail alignment	Yes	Yes	Yes	Yes

3.1.2.2 Assessment timing

An initial five surface water field sampling events were undertaken to support the draft EIS which included opportunistic water quality sampling undertaken at limited water quality monitoring sites during May 2019 to assist with aquatic ecology assessments. Two sampling events were undertaken at the same time as the aquatic ecology surveys (June, dry season and November/December, early wet season) and the remaining three sampling events completed in February 2019 and April/May 2019 (early dry season). The timing was selected to efficiently incorporate varying environmental conditions (expected seasonal variation) with regards to base flow and non-base flow surface water conditions with the expectation this will be the typical environmental conditions encountered during construction and operational works related to the Project. Routine surface water quality monitoring events were selected in order to efficiently incorporate varying environmental conditions (expected seasonal variation) with regards to low/base flow surface water conditions with the expectation this will be the typical environmental conditions encountered during construction and operational works related to the Project. The EPP (Water and Wetland Biodiversity) presents different water quality guideline values for baseflow/low flow and high flow conditions for some water quality parameters. Therefore, additional targeted high-flow (flood) event sampling was conducted to determine water quality parameters under high flow conditions and compare these to the relevant GLVs.

Dry conditions were noted throughout the monitoring period. Watercourse flow was limited; however, conditions were consistent with the highly seasonal, and sporadic flow regimes throughout the impact assessment area. Noting the seasonal flow regimes of the watercourses, timing of the assessments was chosen in order to capture dry or wet condition water quality samples.

In-situ water quality field data was collected each monitoring round in addition to samples collected for laboratory analysis. All *in-situ* water quality field data and laboratory samples were collected by a suitably qualified and experienced environmental scientist.

Table 3.4 Initial water quality monitoring timing

Sampling event	Date	Season	Preceding conditions
Border to Gowrie			
First	11 to 20 June 2018	Winter	Dry season
Second	26 November to 3 December 2018	Spring/summer	Early wet season
Third	11 to 19 February 2019	Summer	End of wet season
Fourth	29 April 2019 to 2 May 2019	Autumn	Early dry Season
Fifth	19 May 2019	Autumn	Early dry Season

Following revision of the draft EIS, an additional thirteen sampling events were undertaken from December 2020 to November 2021 in order to supplement the data previously collected, with the objective of enabling interim site-specific WQOs to be derived.

The timing of surface water quality monitoring field surveys following the Coordinator General's request for further information and public notification, is provided in Table 3.5.

Table 3.5 Additional water quality monitoring

Field survey task	Timing
Routine surface water quality field monitoring (base flow/ low flow)	14 to 17 December 2020
	19 to 21 January 2021
	23 to 25 February 2021
	13 to 15 April 2021
	5 to 7 May 2021
	26 to 28 May 2021
	22 to 24 June 2021
	21 to 23 July 2021
	24 to 26 August 2021
	21 to 23 September 2021
	18 to 20 October 2021
	17 to 19 November 2021
High-flow (flood) event surface water quality field monitoring	23 to 25 March 2021

Table note:

1 Survey coupled with aquatic ecology survey

The *Queensland Water Quality Guidelines 2009* specify that percentile estimates for interim guidelines can be derived from eight or more samples across representative environments. As such, the eighteen data points collected over 40 months are appropriate for reliably deriving interim site-specific WQOs. Additional water quality sampling will be conducted before commencement of construction to enable full calculation of site-specific WQOs, as a revision to the interim site-specific WQOs.

3.1.2.3 In-situ analysis of surface water quality

Surface water quality data was collected at accessible sites in accordance with the *Monitoring and Sampling Manual* (DES, 2018a). Information about site characteristics was recorded using the *Water Quality Sampling Field Sheet* (Department of Natural Resources and Mines, 2002). Field personnel undertaking the surveys were experienced in the collection and analysis of water quality samples.

The following values were recorded at each surface water sampling site:

- Site ID and name
- Date and time
- Sampling location (latitude, longitude and reach orientation looking downstream)

- Weather (rain in the past week, cloud cover, wind)
- Observations at water sampling site (within 2 metres (m) of sampling point or on closest bank), including:
 - Shading (per cent)
 - Water odour
 - Water surface condition
 - Algae (per cent) (on substrate, in water column)
 - Macrophytes (per cent) (emergent, submerged, floating, fringing)
 - Impact (per cent) (human, pastoral animals, non-pastoral animals).

A suite of water quality parameters were selected for the assessment of the existing environmental condition in relation to anticipated activities and associated impacts from the Project. Qualitative data was collected to provide contextual supplementary information in relation to the water quality values.

A multi-probed, battery operated water quality meter (YSI Professional Plus) was used to measure physio-chemical parameters. The device was calibrated in the field prior to the collection of data and used to take measurements of the following parameters:

- Dissolved oxygen (DO) (mg/L) and saturation (per cent)
- pH
- Electrical conductivity (EC) (µs/cm)
- Temperature (°C)
- Turbidity (NTU)
- Total dissolved solids (TDS) (ppm)
- Oxidation reduction potential (ORP) (mV).

Additionally, the following qualitative data was recorded:

- Time
- Water flow (none/low/mod/high/flood/dry)
- Optical clarity (clear/slight/turbid/opaque/other)
- Odour (normal/sewage/hydrocarbon/chemical)
- Surface condition (none/dust/oily/leafy/algae)
- Algae cover (none 0 to 5% cover/some – 6 to 25% cover/lots – 26 to 100% cover)
- Other visual observations/ comments (colour, fish, presence of litter)
- A photo and GPS point were collected from each sampling site.

Calibration certificates for the water quality monitoring probes used during the sampling works are provided in Appendix A.

3.1.2.4 Laboratory analysis of surface water quality

Before the commencement of field sampling, a National Association of Testing Authorities accredited laboratory (Eurofins) was chosen and communicated with to understand their requirements for analysing water samples collected.

Surface water samples were collected at each monitoring location listed in Table 3.3 and submitted to the chosen National Association of Testing Authorities accredited laboratory (Australian Laboratory Services) for analysis of the following water quality parameters:

- EC and salinity
- Total suspended solids
- Total hardness as calcium carbonate (CaCO_3)
- Nutrient suite (ammonia, nitrite, nitrate, total nitrogen, total Kjeldahl nitrogen (TKN), nitrogen oxides (NOx), reactive phosphorus (P) and total P)
- Organic nitrogen
- Dissolved metals (eight metals suite: arsenic, cadmium, chromium, copper, nickel, lead, zinc and mercury)
- Polycyclic aromatic hydrocarbons (PAH)
- Chlorophyll a.

These parameters were analysed to determine existing water quality within the impact assessment area. Laboratory analytes were selected to assess both existing water quality conditions in reference to current land use and potential impacts from construction and operation of the Project.

Surface water quality samples were collected in accordance with industry-accepted standards and quality assured procedures, including the *Monitoring and Sampling Manual 2018: Environmental Protection (Water) Policy 2009* to assess the condition and trend of Queensland waters (DES 2018a). Field quality control included rigorous sample collection, decontamination procedures (where appropriate), and sample documentation. Field personnel undertaking the surveys were experienced in the collection and analysis of water quality samples.

Where possible, surface water quality samples were collected from the centre of the watercourse, where the velocity is the highest. The mouth of the sampling container was held above the base of the channel to avoid disturbing or collecting any settled solids or materials.

The surface water quality samples were collected directly into the appropriate sampling bottles provided by the laboratory to avoid potential contamination associated with the use of intermediate containers. Where a sampling pole was required to be used to enable safe sample collection, the sampling bottle was placed on the pole and the sample collected directly into the sampling bottle. Syringes and filters were flushed with water from the sampling site prior to use.

As per the *Monitoring and Sampling Manual 2018: Environmental Protection (Water) Policy 2009* (DES, 2018a) samples were collected in bottles supplied by the laboratory and transferred to portable coolers immediately after sampling. In order to avoid a breach of holding times for some analytes, the following approach was taken to the delivery of samples to the laboratory:

- A mid-field trip consignment of approximately half of the samples to be collected was delivered to the laboratory by the field team for analysis to commence
- Water samples for chlorophyll a were filtered through a glass fibre filter in the field, with the filter paper double wrapped in aluminium foil and stored in a freezer, as described in DES (2018a). Application of this method extended the laboratory holding time for Chlorophyll a from 2 days to 28 days.

3.1.3 Sampling and laboratory quality assurance/quality control

Surface water quality samples were collected in accordance with industry-accepted standards and quality assured procedures, including the *Monitoring and Sampling Manual 2018: Environmental Protection (Water) Policy 2009* (DES, 2018a). Field quality control included rigorous sample collection, decontamination procedures (where appropriate), and sample documentation. As each sample was collected, it was labelled with a unique sample identifier, the initials of the sampler, the date and the Project number. Once collected, samples were immediately preserved following prescribed techniques. The Chain of Custody forms include data such as sample identification, date sampled, matrix type, preservation method, analyses required and name of sampler.

At one monitoring site for each field trip, a second suite of water samples (duplicates) were taken and labelled DUP. This sample was a 'blind duplicate' of another site (unknown to the laboratory) and provided an opportunity to determine within-laboratory variation in the results between samples collected from the same location. The relative percent difference was calculated for duplicate samples, with a criterion of <35 per cent applied for further investigation. An additional blank sample was taken during sampling to identify field-based contamination from sampling.

Laboratory Quality Assurance/Quality Control (QA/QC) included analysis of laboratory duplicates, method blanks, laboratory control samples, matrix spikes and surrogates. All laboratory QA/QC were within the acceptance range. All samples were collected into the appropriate sample containers for the analysis required and arrived at the laboratory chilled and within the relevant holding times (with the exception of oxidised nitrogen parameters (Nitrates and Nitrites) and reactive P). Noting that oxidised nitrogen parameters and reactive P concentrations were not assessed against WQOs, and were used as complementary analytes, it is considered that QA/QC procedures were adequate.

The laboratory holding times for some water quality analytes (e.g. reactive P, nitrite and nitrate which have a holding time of two days) were shorter than was practical for the transport of samples to the laboratory. The number of parameters affected was minimised by transporting samples to the laboratory at the mid-point of each field trip and using alternative methods for preservation of samples where possible (e.g. chlorophyll a). Consequently, results for some parameters (notably Chlorophyll a) were obtained outside of the recommended holding times and has been considered (as confidence) when interpreting the results.

Overall, the reported analytical results are considered to be valid and representative of the concentrations of the analysed compounds at the sample locations.

Relative percent differences for duplicate samples in June 2018 (Site 6) and November 2018 (Site 3) were below the criterion of 35 per cent for all parameters except TSS in November 2018, which was 82 per cent (raw values of 11 and 20 mg/L). When sampling pools of water that are not well mixed, there is potential for one sample to have quantities of detritus or sediment that differs slightly from the duplicate sample. This is the most likely explanation for different results for samples collected from the same location. In order to remove potential error from analysis of water quality, this value is reported (as indicative) but not assessed against WQOs for the site.

Results for field blank samples were at or below the laboratory level of detection for all samples, except ammonia in November 2018, which recorded a result of 0.03 mg/L, slightly above the laboratory limit of detection of 0.01 mg/L. This result indicates that the process of collecting the field blank may have resulted in some very minor contamination of the distilled water. However, several other samples in the batch had concentrations of ammonia below the laboratory limit of detection, so any contamination was localised.

On the basis of the analytical data validation process (including identification of violation of quality assurance processes), the overall quality of the analytical data collected is considered to be of an acceptable standard for interpretive use.

3.1.4 Assessment of water quality results

Field and laboratory results were compared against relevant WQOs as presented in Section 2.2.

The data obtained in the field was assessed against the data obtained during the desktop assessments to supplement identified data gaps and provide a contemporary assessment of the physical and chemical status of aquatic systems to be intersected by the Project footprint, against current WQOs.

Water quality objectives and assessment of surface water quality monitoring results against the relevant WQOs is discussed in further detail in Section 5.

3.1.5 Assessment of aquatic habitat values

3.1.5.1 Physical habitat assessment

The AusRIVAS Physical Assessment Protocol (Parsons et al. 2002) was used as the physical habitat and geomorphological assessment tool. Key geomorphological, physical habitat and riparian data which was collected at each assessment site. The habitat value of each aquatic habitat assessment site was assessed to predict the nature of the aquatic ecological value of the watercourse. These surveys were done for key sites where the Project footprint intersected existing streams and also for the Inglewood non-resident workforce accommodation and the Turallin facility (Figure 3.2 and Figure 3.3). This assessment was undertaken and reported as part of EIS Appendix L: Terrestrial and Aquatic Ecology Technical Report.

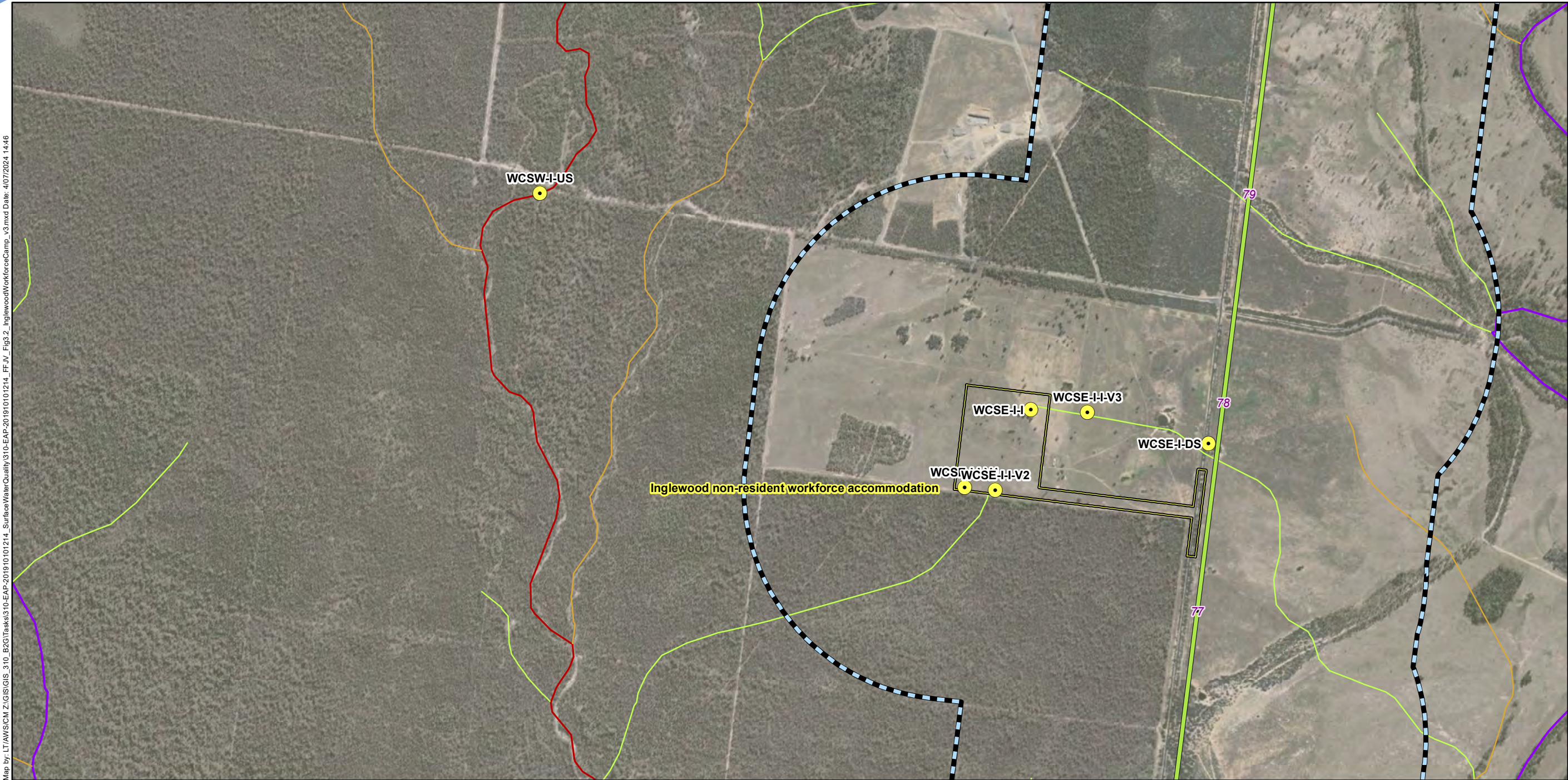
3.1.5.2 Waterway barrier works assessment

Waterways for waterway barrier works are regulated under the Fisheries Act and the Planning Act when barriers to fish movement including partial barriers are installed across waterways. Barrier works include construction, raising, replacement and some maintenance works on structures such as culverts, crossings, bed level and low-level crossings, weirs and dams, both permanent and temporary. A review of the DAF *Queensland waterways for waterway barrier works* (2023) mapping was undertaken. The level of risk relating to each waterway will be considered by the design team responsible for the design of infrastructure such as culverts, bridges and other potential barriers to fish movement. This will occur during the detailed design stage of the Project.

3.2 Impact assessment methodology

The surface water quality assessment for the Project uses a significance-based impact assessment framework to identify and assess Project related impacts in relation to water quality receptors. The significance-based is appropriate to matters where impacts cannot be quantified and is considered appropriate for surface water.

For the purposes of the assessment, a significant impact depends upon the sensitivity of the surface water value, the quality of the environment which is impacted, and upon the intensity, duration, magnitude and potential spatial extent of the potential impacts. Determination of the sensitivity or vulnerability of the surface water quality receptor and the magnitude of the potential impacts facilitate the assessment of the significance of potential impacts. The following sections discuss and define impact magnitudes, receptor sensitivity and impact significance.



Legend

- 5 Chainage (km)
- Localities
- Sites
- Border to Gowrie alignment
- Construction facilities
- Surface water impact assessment area

Queensland waterways for waterway barrier works

- Risk of Impact**
- 1 - Green
 - 2 - Amber
 - 3 - Red
 - 4 - Purple



A3 scale: 1:20,000
0 0.15 0.3 0.45 0.6 0.75km

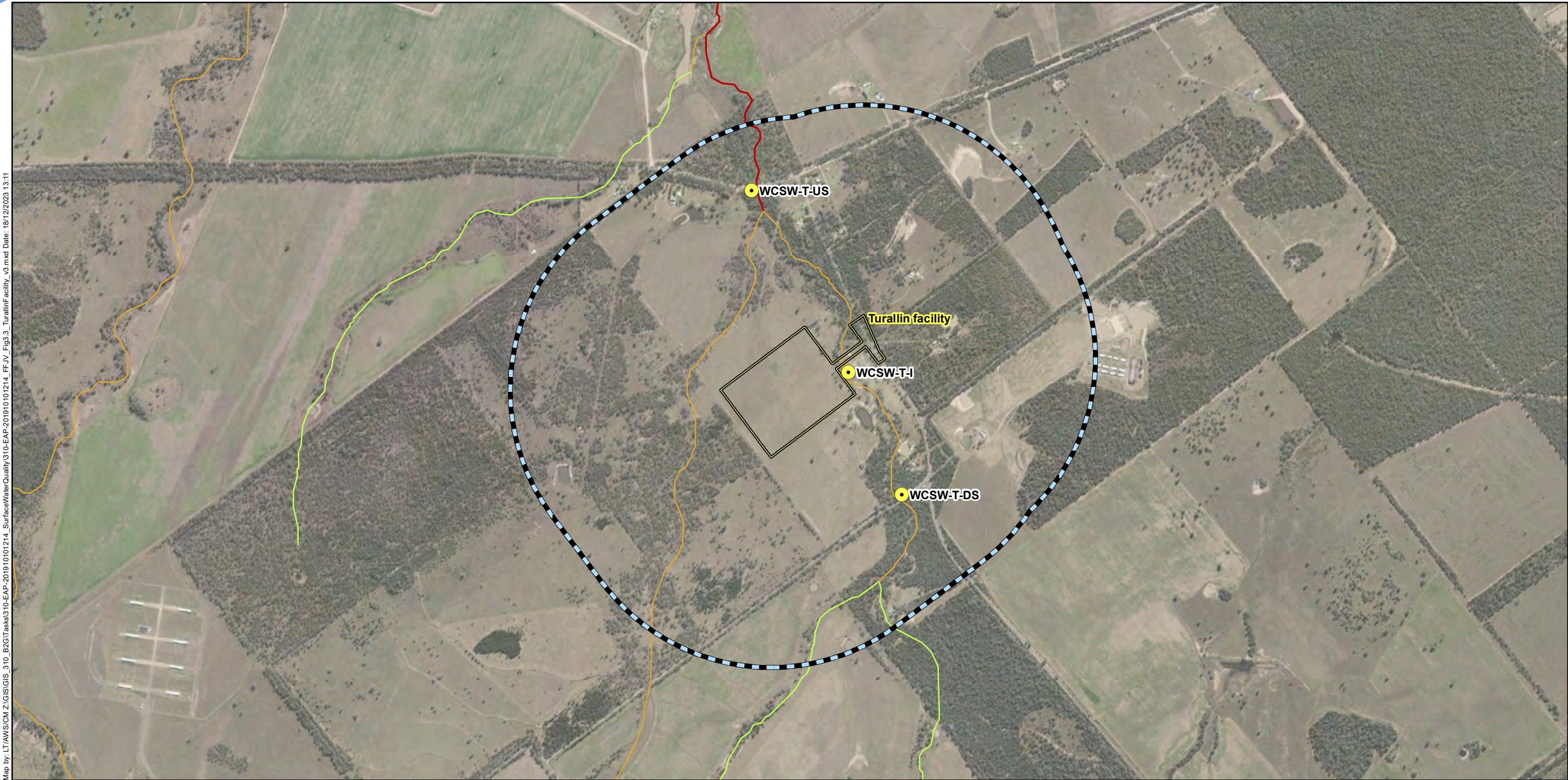


Issue date: 04/07/2024 Version: 3
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 3.2:

Inglewood non-resident accommodation facility



Legend

- Sites
- Construction facilities
- Surface water impact assessment area

Queensland waterways for waterway barrier works

- Risk of Impact**
- 1 - Green
 - 2 - Amber
 - 3 - Red



A3 scale: 1:20,000
0 0.15 0.3 0.45 0.6 0.75km



Future Freight
Integrating Community, Environment and Engineering

Issue date: 18/12/2023 Version: 3
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie
Figure 3.3:
Turallin facility

3.3 Modelling

As a means of verifying discharge of stormwater quality from the proposed rail corridor, a Model for Urban Stormwater Improvement Conceptualisation (MUSIC) was undertaken. This modelling was used to compare the existing discharge conditions within the impact assessment area with the discharge conditions due to longitudinal drainage infrastructure included revised reference design.

Hydraulic modelling has been undertaken to assess potential changes to overland flow and to identify potential impacts to adjacent environmental and land use receptors. Changes to overland flow were assessed by comparing pre- and post-development peak flows and flow hydrographs at appropriate locations e.g. directly downstream of the alignment, and by comparing pre- and post-development flood inundation footprints. Further details are provided in EIS Appendix T: Hydrology and Flooding Technical Report.

3.3.1 Magnitude of impacts

The magnitude of a potential impact is essential to the determination of its level of significance on sensitive receptors. For the purposes of this assessment, impact magnitude is defined as being comprised of the nature and extent of the potential impacts, including direct and indirect impacts. The impact magnitude is divided into five categories (Table 3.6). The magnitude of impacts is determined using assessment of potential impacts against existing condition, Project activities and potential impacts to facilitate an estimation of the extent, duration and frequency of the impacts (Table 3.7).

Table 3.6 Criteria for magnitude

Magnitude	Description
Major	An impact that is widespread, permanent and results in substantial irreversible change to the environmental value. Avoidance through appropriate design responses or the implementation of environmental management controls are required to address the impact.
High	An impact that is widespread, long lasting and results in substantial and possibly irreversible change to the environmental value. Avoidance through appropriate design responses or the implementation of site-specific environmental management controls are required to address the impact.
Moderate	An impact that extends beyond the area of disturbance to the surrounding area but is contained within the region where the Project is being developed. The impacts are short term and result in changes that can be ameliorated with specific environmental management controls.
Low	A localised impact that is temporary or short term and either unlikely to be detectable or could be effectively mitigated through standard environmental management controls.
Negligible	An extremely localised impact that is barely discernible and is effectively mitigated through standard environmental management controls.

Table 3.7 Timeframes for term of impact duration

Duration term	Timeframe – to be defined for each receptor type if required
Temporary	Days to months (e.g. 1 to 2 seasons; 3 to 6 months)
Short term	Up to 2 years (i.e. 6 to 24 months)
Medium term	From 2 to 11 years ¹
Long-term/long lasting	From 11 to 21 years ²
Permanent or irreversible	More than 21 years ³

Table notes:

1. Derived from the term 'moderate' EAM Risk Management Framework 2009 (Great Barrier Reef Marine Park Authority, 2009)
2. Derived from the term 'major' EAM Risk Management Framework 2009 (Great Barrier Reef Marine Park Authority, 2009)
3. Derived from the term 'catastrophic' EAM Risk Management Framework 2009 (Great Barrier Reef Marine Park Authority, 2009)

3.3.2 Sensitivity

To assess the significance of potential impacts on water quality receptors, sensitivity categories were applied to each of the features. The sensitivity categories are split into five discrete groups as described in Table 3.8.

These groupings are based on qualitative assessments utilising information related to the sensitivity of the water quality receptor, in addition to the potential of a water quality receptor's occurrence within the receiving environment. Sensitive features are treated individually. In the case where there are conflicting classes, the highest (major) sensitivity is selected.

Through the determination of sensitivity categories for each of the water quality receptors, the features are then able to be assessed through a matrix against the magnitude of the potential Project impact type to indicate the level of significance for each of the impact types on the water quality receptors.

Table 3.8 Sensitivity criteria for sensitive values/receptors within the impact assessment area

Sensitivity	Description
Major	- The water quality receptor is listed on a recognised or statutory state, national or international register as being of conservation significance and/or - The water quality receptor is entirely intact and wholly retains its intrinsic value and/or - The water quality receptor is unique to the environment in which it occurs. It is isolated to the affected system/area, which is poorly represented in the region, state, country or the world and/or - It has not been exposed to threatening processes, or they have not had a noticeable impact on the integrity of the water quality receptor - Project activities would have an adverse effect on the value.
High	- The water quality receptor is listed on a recognised or statutory state, national or international register as being of conservation significance and/or - The sensitive is intact and retains its intrinsic value and/or - The water quality receptor is unique to the environment in which it occurs. It is isolated to the affected system/area, which is poorly represented in the region and/or - The water quality receptor has not been exposed to threatening processes, or they have not had a noticeable impact on the integrity of the water quality receptor - Project activities would have an adverse effect on the water quality receptor.
Moderate	- The water quality receptor is recorded as being important at a regional level, and may have been nominated for listing on recognised or statutory registers and/or - The water quality receptor is in a moderate to good condition despite it being exposed to threatening processes. It retains many of its intrinsic characteristics and structural elements and/or - The water quality receptor is relatively well represented in the systems/areas in which it occurs, but its abundance and distribution are exposed to threatening processes and/or - Threatening processes have reduced the water quality receptor's resilience to change. Consequently, changes resulting from Project activities may lead to degradation of the prescribed value and/or - Replacement of unavoidable losses is possible due to its abundance and distribution.
Low	- The water quality receptor is not listed on any recognised or statutory register. It might be recognised locally by relevant suitably qualified experts or organisations e.g. historical societies and/or - The water quality receptor is in a poor to moderate condition as a result of threatening processes, which have degraded its intrinsic value and/or - It is not unique or rare and numerous representative examples exist throughout the system/area and/or - It is abundant and widely distributed throughout the host systems/areas and/or - There is no detectable response to change or change does not result in further degradation of the water quality receptor and/or - The abundance and wide distribution of the water quality receptor ensures replacement of unavoidable losses is achievable.

Sensitivity	Description
Negligible	- The water quality receptor is not listed on any recognised or statutory register and is not recognised locally by relevant suitably qualified experts or organisations and/or - The water quality receptor is not unique or rare and numerous representative examples exist throughout the system/area and/or - There is no detectable response to change or change does not result in further degradation of the water quality receptor.

3.3.3 Significance of impact

The significance of a potential impact is a function of the significance of the water quality receptor, the sensitivity of the receptor and the magnitude of the potential impact. Although the sensitivity of the receptor will not change (i.e. is generally determined qualitatively by the interaction of the receptor's condition, adaptive capacity and resilience), the magnitude of the potential impact is variable and may be categorised quantitatively to facilitate the prediction of the significance of the potential impact.

Once the water quality receptor was identified, and the sensitivity of the receptor and the magnitude of the potential impact was determined, the assessment of the significance of the potential impact was derived through use of a five by five matrix (Table 3.9).

Following the identification of the level of significance (Table 3.10), mitigation measures were then applied to the potential (unmitigated) impacts to identify the residual (mitigated) impacts.

Table 3.9 Significance assessment matrix

Magnitude of impact	Sensitivity category				
	Major	High	Moderate	Low	Negligible
Major	Major	Major	High	Moderate	Low
High	Major	Major	High	Moderate	Low
Moderate	High	High	Moderate	Low	Low
Low	Moderate	Moderate	Low	Negligible	Negligible
Negligible	Moderate	Low	Low	Negligible	Negligible

Table note:

Significance categories as identified in Table 3.9 are defined in Table 3.10. Magnitude categories are defined in Table 3.6.

Table 3.10 Significance classifications

Significance rating	Description
Major	Arises when an impact will potentially cause irreversible or widespread harm to a water quality receptor that is irreplaceable because of its uniqueness or rarity. Avoidance through appropriate design responses is the only effective mitigation.
High	Occurs when the proposed activities are likely to exacerbate threatening processes affecting the intrinsic characteristics and structural elements of the water quality receptor. While replacement of unavoidable losses is possible, avoidance through appropriate design responses is preferred to preserve its intactness or conservation status.
Moderate	Results in degradation of the water quality receptor due to the scale of the impact or its susceptibility to further change even though it may be reasonably resilient to change. The abundance of the water quality receptor ensures it is adequately represented in the region, and that replacement, if required, is achievable.
Low	Occurs where a water quality receptor is of local importance and temporary or transient changes will not adversely affect its viability provided standard environmental management controls are implemented.
Negligible	Does not result in any noticeable change and hence the proposed activities will have negligible effect on water quality receptors. This typically occurs where the activities are located in already disturbed areas.

3.4 Cumulative impact assessment

3.4.1 General assessment methodology

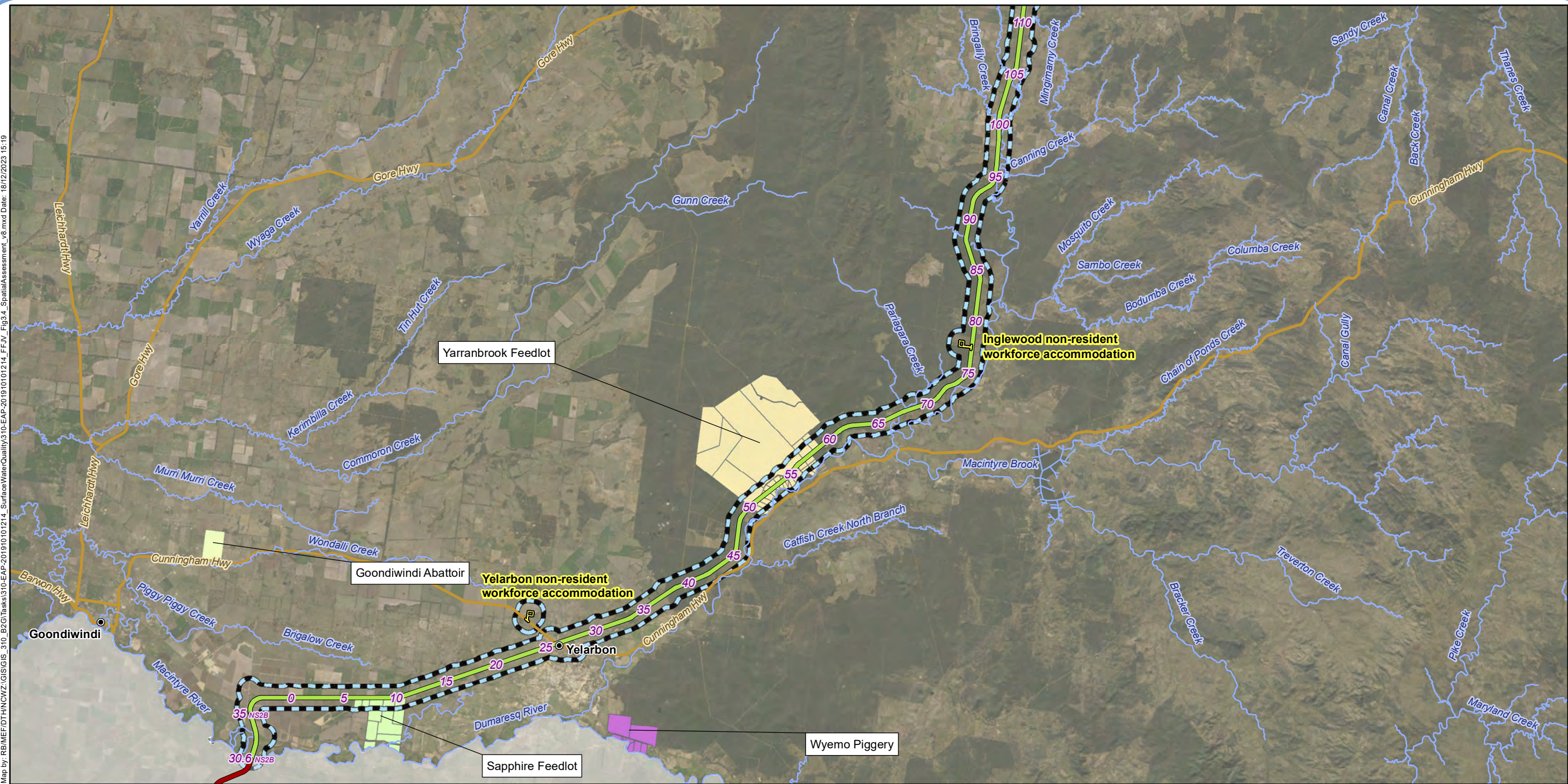
It is a requirement for this Project that the potential for cumulative impacts be considered.

The cumulative impacts of multiple projects occurring in the vicinity of the impact assessment area may contribute to impacts to water quality if not managed appropriately (Figure 3.4).

The approach used to identify and assess potential construction phase cumulative impacts of the Project is as follows:

- A review of the potential impacts identified within the assessment. The environment at the time of submission is the baseline, prior impacts from past land use has not been considered
- A preliminary list of projects for consideration in the cumulative impact assessment was collated with timelines to demonstrate the temporal relationship between projects. This preliminary list of projects was compiled through consideration of the following:
 - Projects subject to assessment under the EP Act or *State Development and Public Works Organisation Act 1971* (Qld), with an Initial Advice Statement published by DES or Department of State Development, Tourism and Innovation
 - Projects listed in GRC and TRC development application databases
 - Development within Priority Development Areas and State Development Areas
 - Economic Development Queensland development projects
 - Community Infrastructure Designation projects
 - Projects within the public register of environmental authorities
 - Department of Transport and Main Roads infrastructure projects
 - Private infrastructure facilities
 - Development in accordance with Regional Planning Interests
 - The Inland Rail projects immediately adjacent to the Project, being the North Star to NSW/QLD Border and Gowrie to Helidon projects.
- The preliminary list of projects was assessed to identify those that meet one of the following criteria:
 - Projects that have been approved but where construction has not commenced
 - Projects that have commenced construction subsequent to submission of the EIS, but have potential for overlap in construction activities with the Border to Gowrie Project
 - Projects that have been completed subsequent to submission of the EIS
 - Are operational developments that have future plans for expansion.
- Projects that were excluded from further assessment were:
 - Existing projects, with no known plans for expansion. Such projects are typically considered part of the 'existing environment' and have been accounted for in the impact assessment of each specific matter.
 - Proposed projects that have not been developed to the point that details of their scale, size, location and core activities would be publicly available.
- Where there is a potential overlap in impacts (either spatially or temporally), a cumulative impact assessment was undertaken to determine the nature of the cumulative impact. The spatial extent of cumulative impact assessment for surface water quality is shown on Figure 3.4

- An assessment matrix method (further detailed in Section 3.4.2 has been used to determine the significance of cumulative impacts with respect to beneficial or detrimental effects
- Where cumulative impacts are deemed to be of medium or high significance, additional mitigation measures are proposed, beyond those already proposed by the relevant technical impact assessments.



Legend

- 5 Chainage (km)
- Localities
- North Star to NSW/QLD border alignment
- Border to Gowrie alignment
- Defined watercourses (Water Act)
- Major roads
- NSW/QLD border
- Construction facilities
- Surface water impact assessment area

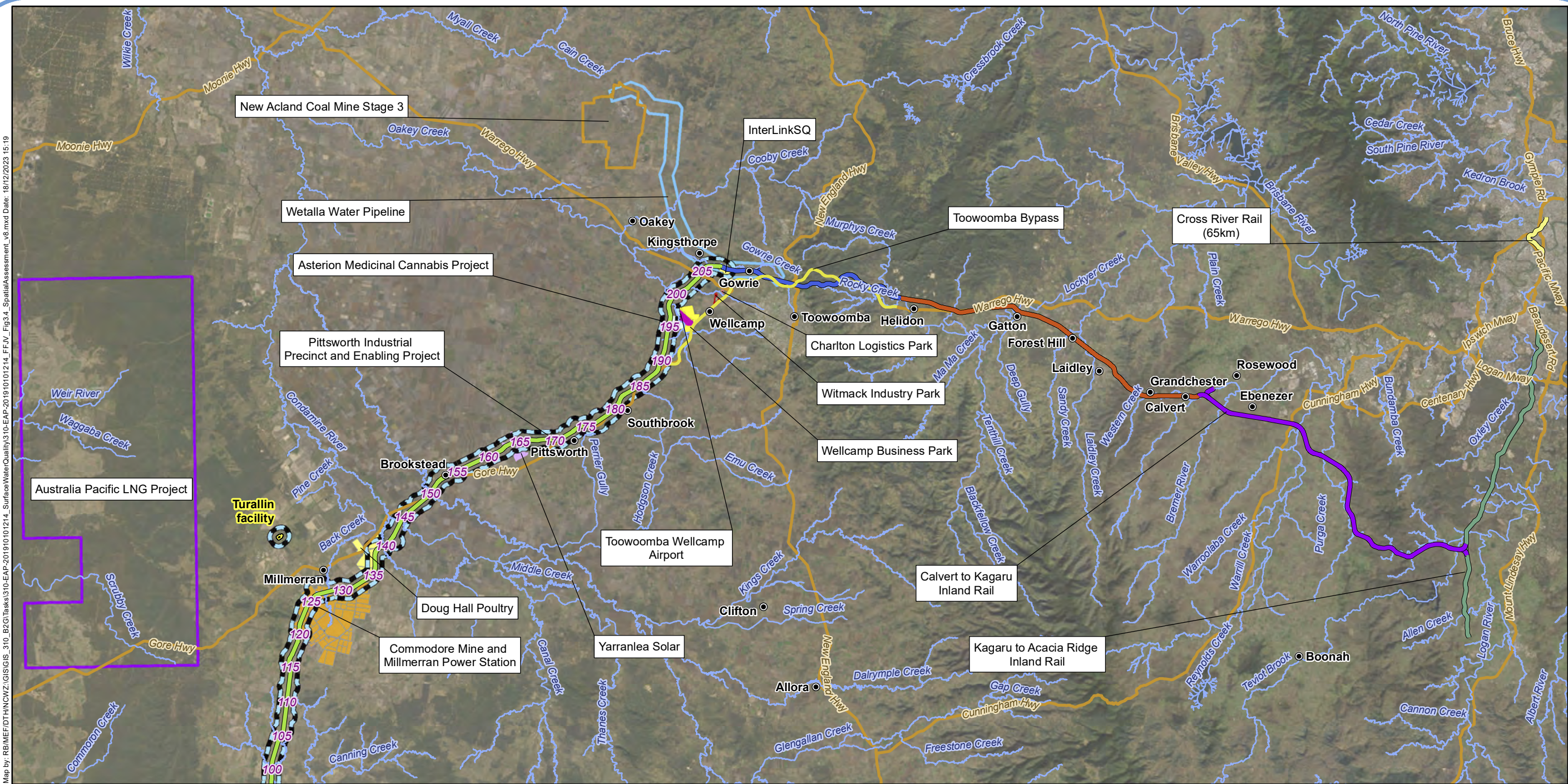


A3 scale: 1:400,000
0 3 6 9 12 15 km



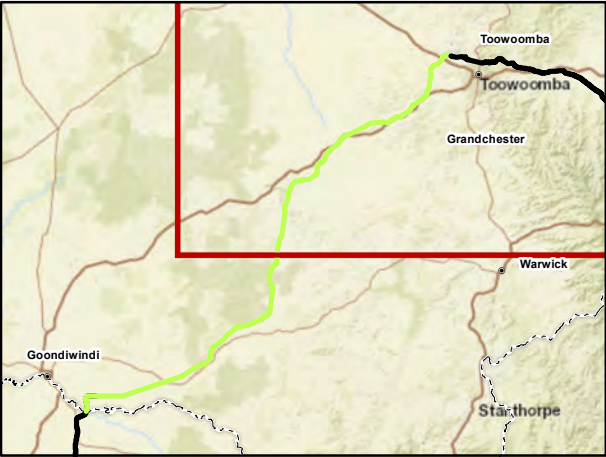
Issue date: 18/12/2023 Version: 8
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie
Figure 3.4a:
Area of spatial assessment subject to the cumulative impact assessment for surface water quality



Legend

- | | |
|--|--------------------------------------|
| 5 Chainage (km) | Defined watercourses (Water Act) |
| Localities | Major roads |
| Border to Gowrie alignment | Construction facilities |
| Gowrie to Helidon alignment | Surface water impact assessment area |
| Helidon to Calvert alignment | |
| Calvert to Kagaru alignment | |
| Kagaru to Acacia Ridge/Bromelton alignment | |



A3 scale: 1:600,000
0 4.5 9 13.5 18 22.5km



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Issue date: 18/12/2023 Version: 8
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie
Figure 3.4b:
Area of spatial assessment subject to the cumulative impact assessment for surface water quality

3.4.2 Assessment matrix

Following the identification of each potential cumulative impact, a relevance factor score of low, medium and high has been determined in consideration of the impacts, in accordance with the assessment matrix given in Table 3.11.

The significance of the impact has been determined by using professional judgement to select the most appropriate relevance factor for each aspect and summing the relevance factors. The sum of the relevance factors determines the impact significance and consequence which are summarised in Table 3.12. For example, if an environmental value such as riparian vegetation loss was considered to have a probability of impact of 2, duration of impact of 3, magnitude /intensity of impact of 1 and a sensitivity of receiving environment of 1 the significance of impact would be $(2+3+1+1 = 7) = \text{Medium}$.

Table 3.11 Assessment matrix

Aspect	Relevance factor		
	Low	Medium	High
Probability of impact	1	2	3
Duration of impact	1	2	3
Magnitude/Intensity of impact	1	2	3
Sensitivity of receiving environment	1	2	3

Table 3.12 Impact significance

Impact significance	Sum of relevant factors	Consequence
Low	1 to 6	Negative impacts need to be managed by standard environmental management practices. Monitoring to be part of general Project monitoring programme.
Medium	7 to 9	Mitigation measures likely to be necessary and specific management practices to be applied. Targeted monitoring Program required, where appropriate.
High	10 to 12	Alternative actions should be considered and/or mitigation measures applied to demonstrate improvement. Targeted monitoring Program necessary, where appropriate.

4 Description of environmental values/existing conditions

4.1 Local government areas

The Project is situated in the TRC local government area between Gowrie and south of Millmerran and GRC, between south of Millmerran and the Queensland Border.

4.2 Catchment areas

The Project is located across two surface water catchment areas, the Condamine River basin and the Border Rivers basin (Figure 4.1).

The Border Rivers basin covers approximately 23,800 km² and, in combination with the Moonie River basin, comprises approximately 12 per cent of the Queensland portion of the Murray-Darling basin (DES, 2020b). This basin resides predominantly in Queensland with a portion extending into New South Wales. The Border Rivers are a network of perennial streams that rise in the western slopes of the Great Dividing Range on the Granite Belt and New England Tablelands and together form the headwaters of the Darling River (DES, 2020b). In Queensland, the Macintyre Brook, Severn River, Mole River and Beardy River drain from the Inglewood, Granite Belt, Tenterfield and Deep Water districts, respectively. The confluence of the Severn River and the Mole River becomes the Dumaresq River which forms part of the border between Queensland and New South Wales. The Dumaresq River enters the Macintyre River above Goondiwindi and continues to form the border between the two states.

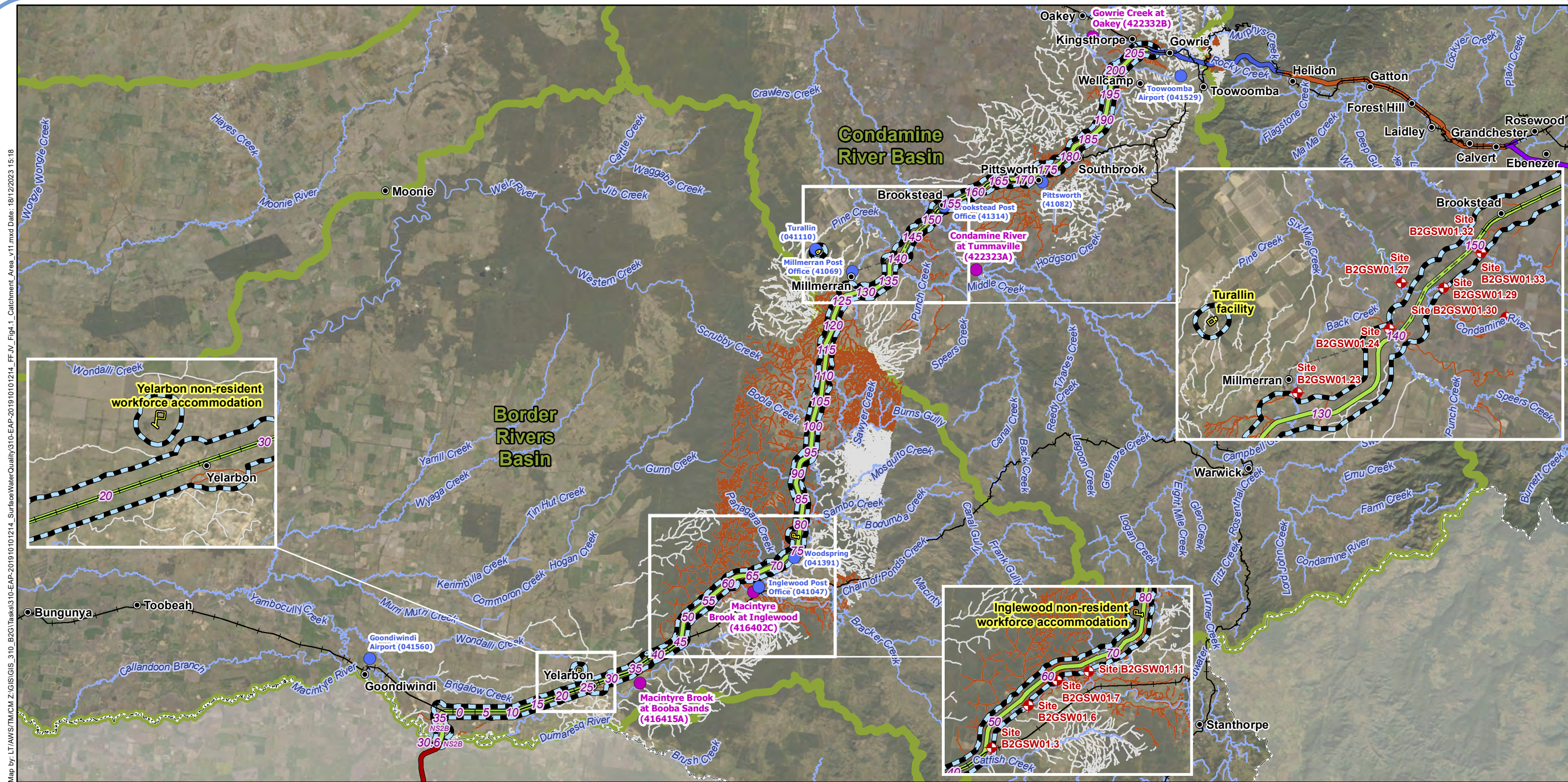
The Macintyre River flows generally west before reaching its confluence with the Weir River, west of Goondiwindi. The Weir River headwaters are located in the Dunmore State Forest south west of Cecil Plains. It is fed by a number of tributaries that drain to an area west of Millmerran and Inglewood and north of Goondiwindi. The Weir River generally flows in a southwest direction and combines with the Macintyre River, north of Mungindi, where it becomes the Barwon River (DES, 2020b).

Water type zones within the Border Rivers basin include Canning Creek, Dumaresq Floodplain, Granite Belt, Kumbarilla Ridge, Lower Moonie River, Lower Macintyre Brook, Lower Weir River, Macintyre Barwon Floodplain, Middle Moonie River, Traprock, Upper Moonie River and Upper Weir River.

The Condamine River basin covers approximately 25,440 km² and comprises approximately 9 per cent of the Queensland Murray-Darling basin (DES, 2020b). The Condamine River basin forms part of the headwaters of the Murray-Darling basin river system that flows through the southern states.

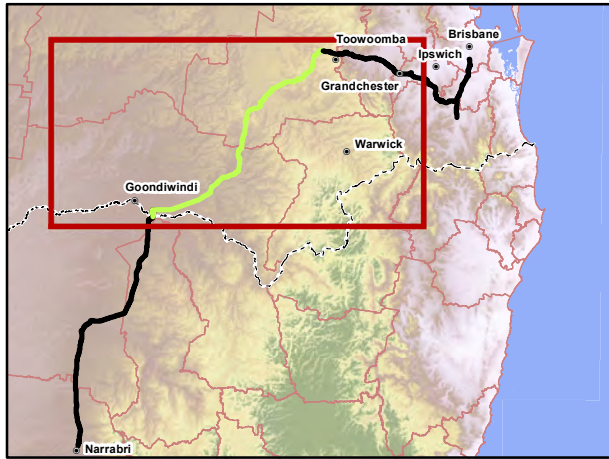
The main channel in this basin begins in the headwaters of the Condamine River, near Warwick. This is within the Main Range National Park. The Condamine River flows north-west until around Brigalow, where the river turns west and crosses into the Maranoa and Balonne River basin. It then becomes the Balonne River between the town of Condamine and Surat and eventually discharges into the NSW intersecting streams. Tributaries of the Condamine River include Emu Creek, Glengallan Creek, Hodgson Creek, Oakey Creek, Wilkie Creek and Charleys Creek.

Water type zones within the Condamine River basin include: North-Western, South-Western, Kumbarilla Ridge, Central Condamine, Oakey Creek, Upper Condamine, Middle Condamine, Southern Condamine, Lower Condamine, South-Eastern, Emu Creek.



Legend

- | | | | |
|---|--|-------|--|
| 5 | Chainage (km) | — | Existing rail (operational) |
| ● | Localities | - - - | Existing rail (non-operational) |
| ● | BOM weather station | - - - | NSW/QLD border |
| ● | DNRME gauging station | — | Defined watercourses |
| — | North Star to NSW/QLD border alignment | — | Drainage Features |
| — | Border to Gowrie alignment | — | Unmapped watercourses (Water Act 2000) |
| — | Gowrie to Helidon alignment | □ | Construction facilities |
| — | Helidon to Calvert alignment | □ | Catchment boundaries |
| — | Calvert to Kagaru alignment | □ | Surface water impact assessment area |



A3 scale: 1:800,000

0 6 12 18 24 30 km

The major water storages in the Queensland Border River basin are Glenlyon Dam (capacity 254 gigalitres) and Coolmunda Dam (capacity 69 gigalitres), which are approximately 68 km and 10 km from the Project footprint respectively (direct linear distance). The major water storage in the Condamine River basin is Leslie Dam with a capacity of 106 gigalitres, which is located approximately 72 km east of the Project footprint (direct linear distance). Additionally, smaller water storages are present for the management of supplemented and non-supplemented (regulated or natural) flow for irrigation, stock and domestic uses throughout the catchment (DES, 2019a and 2019b).

4.3 Land use

Approximately one third of the Project length will involve upgrade, enhancement or construction of new track coincident with existing rail corridor. The balance of the Project has been co-located with existing road infrastructure or will be established on land that, by and large, has been subject to previous disturbance for agricultural purposes.

Land surrounding the Project is predominantly used for livestock grazing, combined with other agricultural uses including irrigated cropping. Other land uses include production forestry, other minimal use (consisting of areas of land that are largely unused, for example, residual native cover or land reserved for stock routes) and transport and communication.

The Project traverses through, or near to the townships of Yelarbon, Inglewood, Millmerran, Pampas, Brookstead, Pittsworth, Southbrook, Athol, Gowrie Mountain and Kingsthorpe. Notable land uses traversed by, or located within proximity to the Project include the Kildonan Key Resource Area (KRA 120), Whetstone State Forest, Bringalily State Forest, Commodore Mine, several intensive animal production operations including cattle feedlots, poultry farms and piggeries and, at the north eastern end, the Toowoomba Wellcamp Airport and Toowoomba Enterprise Hub.

4.4 Climate

The Köppen Climate Classification system indicates that the impact assessment area falls within the 'Cfa – Humid Subtropical Climate' region which is characterised by hot and humid summers, and mild winters. A review of BoM climate data of relevance to surface water conditions within the impact assessment area was undertaken to validate this classification and to establish an appreciation of location-specific conditions. This climatic data was sourced from several representative BoM monitoring stations within the impact assessment area, as identified in Table 4.1.

4.4.1 Rainfall

Rainfall data from 1883 to 2018 was collected from six weather stations across the impact assessment area. Both currently active and inactive stations indicated that the area receives an average of between 600 mm and 710 mm of annual rainfall (BoM, 2022b).

Table 4.1 identifies the recorded rainfall data for the six weather stations closest to the impact assessment area. The region receives its heaviest rainfall in summer, with the highest recorded single rainfall event occurring in January 2010 with 433.6 mm. During the winter months, the area predominantly receives low to no rainfall (BoM, 2022b).

Table 4.1 Weather stations within proximity of the Project and rainfall data

Station number	Name	Locality (distance from alignment (km))	Operation date	Annual rainfall average (mm)	Month of highest average rainfall/ amount (mm)	Month of lowest average rainfall/ amount (mm)
041391	Woodspring	Woodspring (~5)	1954 to 2022	631.6	Dec (91.1)	Jun (29.1)
041047	Inglewood Post Office	Inglewood (~2)	1883 to 2022	652.7	Jan (83.8)	Aug (32.4)
41069	Millmerran Post Office	Millmerran (~2)	1900 to 2014	662.6	Jan (88.8)	Aug (30.9)
041110	Turallin	Turallin (~10)	1909 to 2015	648.5	Jan (91.1)	Sep (31.5)
41314	Brookstead Post Office	Brookstead (<1)	1958 to 2022	643.3	Dec (101.7)	Jun (28.2)
41082	Pittsworth	Pittsworth (~1)	1886 to 2022	692.9	Dec (97.8)	Aug (30.3)
041529	Toowoomba Airport	Toowoomba (~8)	1996 to 2022	709.0	Feb (111.3)	Apr (26.7)
041560 ^a	Goondiwindi Airport	Goondiwindi	2020 to 2022	943.8	Nov (228.0)	Sep (3.6)

Source: BoM (2022)

Table note:

a Goondiwindi Airport weather station has only recorded 18 months of data to June 2022.

4.4.2 Evaporation

There are relatively few BoM weather stations that record daily evaporation. The closest BoM weather station that records evaporation is the Oakey Aero station (041359), which is located approximately 13 km northwest of Gowrie and 11 km from the impact assessment area. From 1973 to 2005 evaporation data for the impact assessment area generally consisted of higher evaporation in the summer months where the mean daily evaporation rate was as high as 8 mm compared to the winter months where the mean evaporation rate was as low as 2.7 mm (BoM, 2024).

4.4.3 Temperature

The climate of the impact assessment area remains relatively warm all year round with cooler temperatures occurring during winter nights and early mornings (BoM, 2023). Data was collected from the Texas Post Office (041100) weather station which is located approximately 46 km south east of Yelarbon and the Project. Between 1969 and 2023 the impact assessment area recorded the highest average maximum temperature for January with 33.9°C and the coldest average minimum temperature in July with 3.8°C. The hottest day recorded for the impact assessment area occurred in January 1980 where it reached 44.6°C, whilst the coldest ever day record reached by the area was -7.6°C in June 1971. Figure 4.2 provides the mean maximum and minimum temperature recorded at the Texas Post Office (041100).

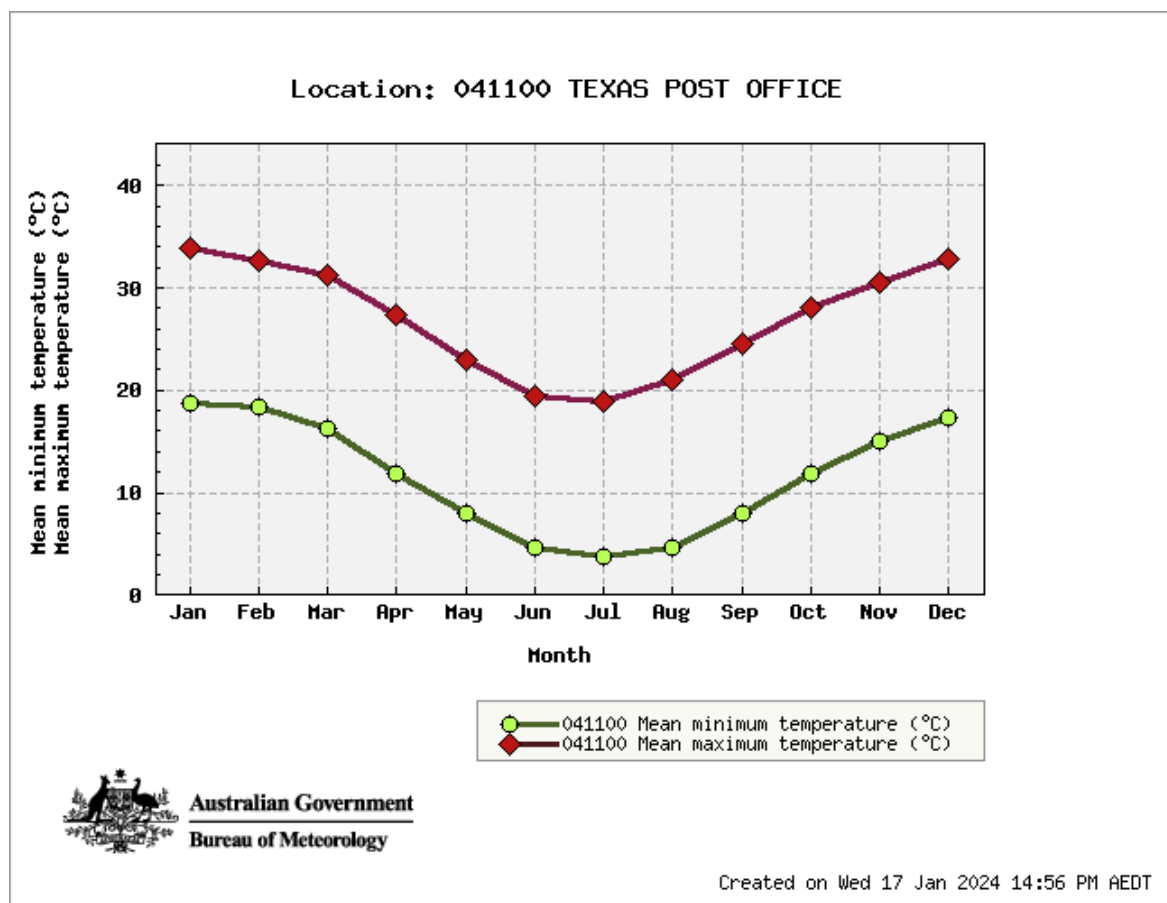


Figure 4.2 Summary of the maximum and minimum temperature recorded at Texas Post Office (041100)

Source: BoM (2022)

4.4.4 Gauging station water monitoring (discharge and water quality)

The DRDMW maintain a WMIP for stream gauge data with datasets typically including rainfall, stream flow and water quality data for numerous gauging stations across Queensland.

There are four stream flow monitoring stations located within the impact assessment area that record real time data including flow creek data and other basic parameters. The stations and their location respective to the Project footprint are provided in Table 4.2. Conditions observed during the water quality monitoring events appear typical of the general stream flow observed with the gauging stations on Gowrie Creek, the Condamine River and Macintyre Brook, with low median discharge per day. Water quality data recorded from these stations by DRDMW are discussed further in Section 5.1.

Table 4.2 Department of Regional Development Manufacturing and Water gauging stations

DRDMW gauging station	Location in relation to the Project footprint
Condamine River basin	
Gowrie Creek at Oakey (422332B)	Located approximately 12 km downstream of the Project footprint at Gowrie Creek
Condamine River at Tummaville (422323A)	Located approximately 18 km upstream of the Project footprint
Border Rivers basin	
Macintyre Brook at Inglewood (416402C)	Located approximately 3 km downstream of the Project footprint
Macintyre Brook at Booba Sands (416415A)	Located approximately 3 km downstream of the Project footprint

Source: DRDMW (WMIP) (2022)

Table 4.3 Summary of discharge data at Department of Regional Development Manufacturing and Water gauging stations and rainfall per month (January 2015 to April 2022)

Gauging station	Median rainfall (mm/month)	Mean discharge (ML/day)
Gowrie Creek at Oakey (422332B)	29.8 BoM site (41529)	48.1
Condamine River at Tummaville (422323A)	27.3 BoM site (41219)	608.1
Macintyre Brook at Inglewood (416402C)	29.8 * BoM site (41047)	259.0
Macintyre Brook at Booba Sands (416415A)	26.0* BoM site (41519)	290.2

Source: DRDMW (WMIP) (2021), BoM (2021)

Table notes:

- 1 Number in bracket denotes WQO for the given watercourse
- 2 Highlight denotes exceedance of WQO
- * Identifies minor data deficiencies (lack of data post January 2022)

Stream discharges at these gauging stations typically show the same distinct seasonal distribution as rainfall with the majority of flow occurring in summer months. Stream flows are highly episodic and with discharges typically generated only as a result of significant runoff events across the four gauging stations. Figure 4.3, Figure 4.4, Figure 4.5 and Figure 4.6 present the stream discharge and water level data for the four DRDMW gauging stations ranging from 1961 to 2022.

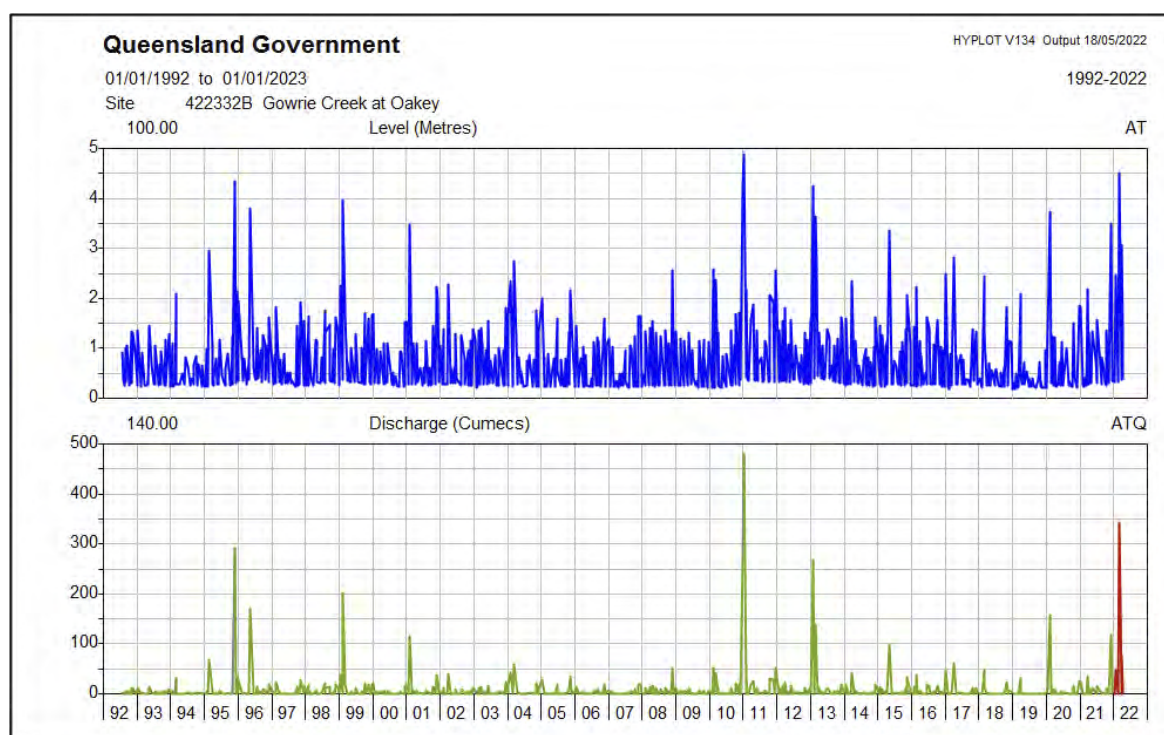


Figure 4.3 Historic stream water level and discharge at Gowrie Creek at Oakey (422332B) (1992 to 2022)

Source: DRDMW (2022)

Figure note: Red plot lines denotes unvalidated data value for discharge

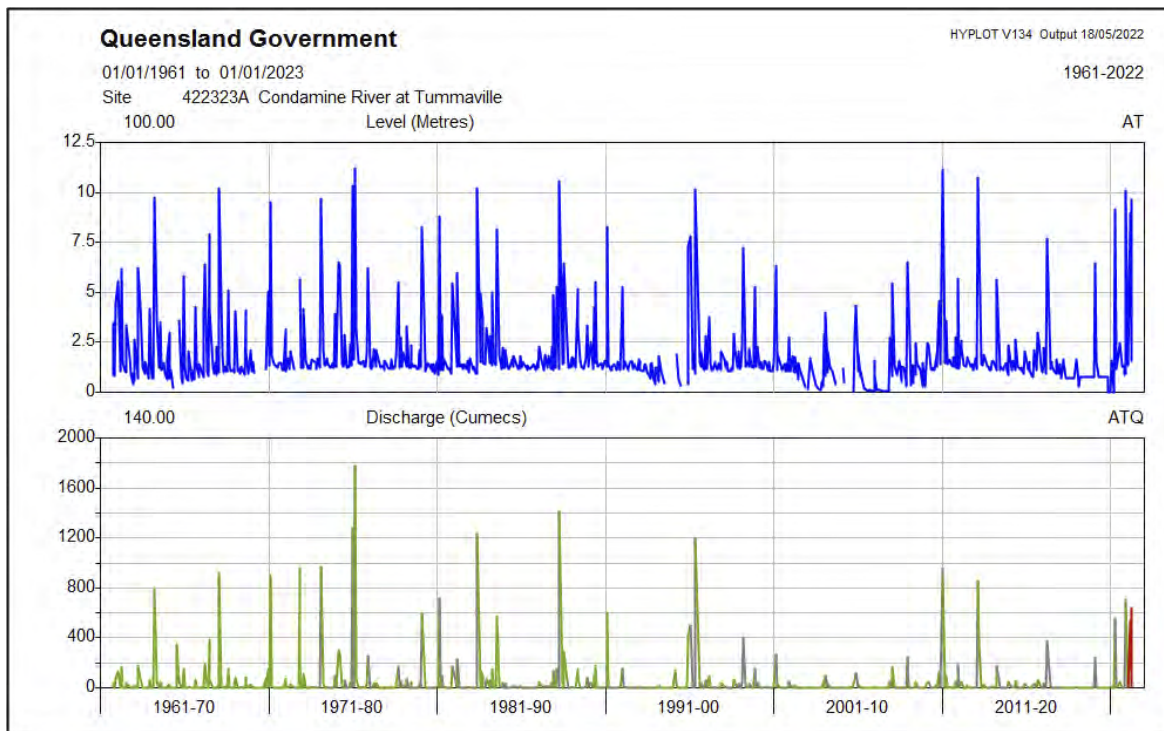


Figure 4.4 Historic stream water level and discharge at Condamine River at Tummaville (422323A) (1961 to 2022)

Source: DRDMW (2022)

Figure note: Grey and red plot lines denotes unvalidated data value for discharge

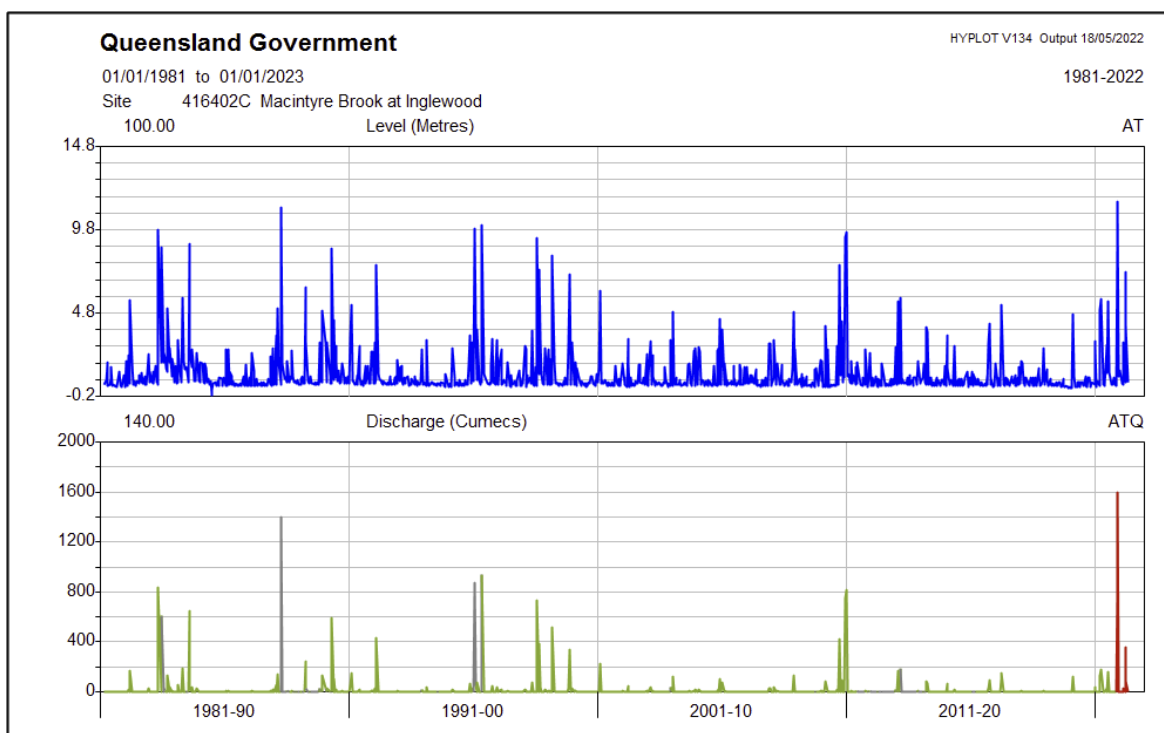


Figure 4.5 Historic stream water level and discharge at Macintyre Brook at Inglewood (416402C) (1981 to 2022)

Source: DRDMW (2022)

Figure note: Grey and red plot lines denotes unvalidated data value for discharge

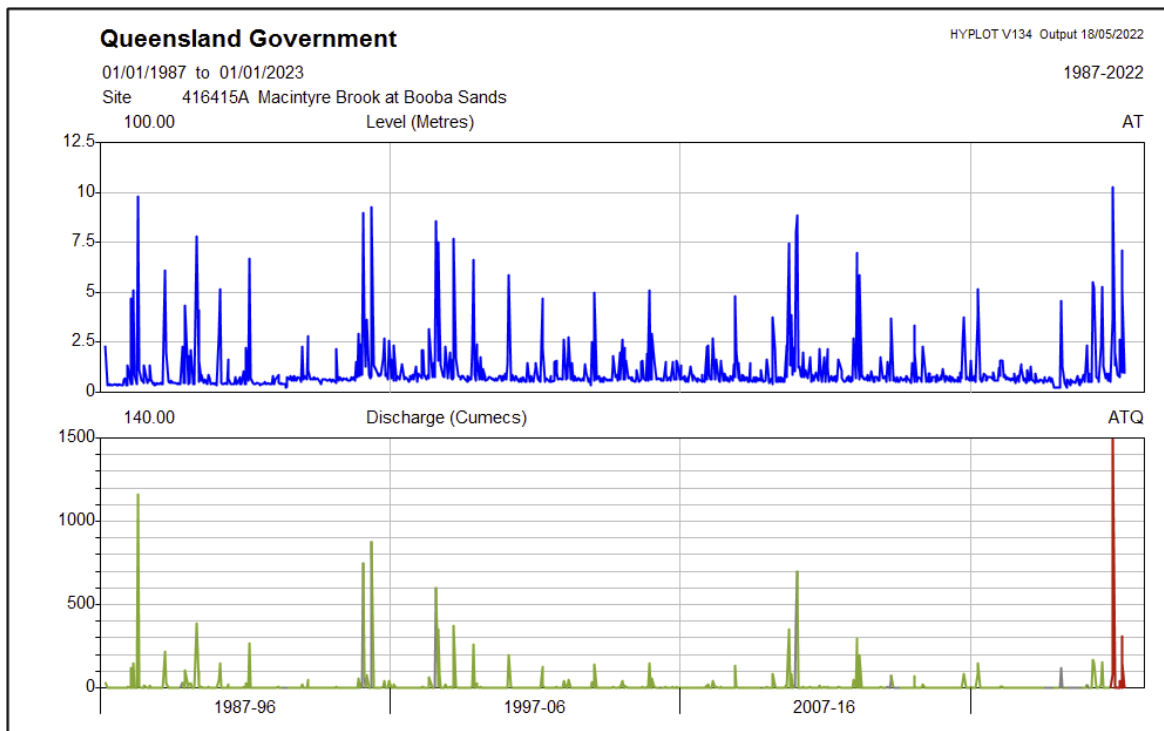


Figure 4.6 Historical stream water level and discharge at Macintyre Brook at Booba Sands (416415A) (1987 to 2022)

Source: DRDMW (2022)

Figure note: Grey and red plot lines denotes unvalidated data value for discharge

The stream water level for all gauging stations tends to fluctuate with general flow recorded as relatively low with periods of high flow instances. However, in more recent years all stations have experienced prolonged periods of low to no stream discharge. Of the four DRDMW gauging stations, the Gowrie Creek at Oakey (422332B) has recorded the lowest comparative stream discharge.

Historic gauging station data for each of the sites indicated a paucity of water quality data for total nitrogen and phosphorus (when separated into season). Noting this, the data was used conservatively to identify any trend of concentrations against discharge. For graphical plots of the water quality data for electrical conductivity, total suspended solids, total nitrogen and total phosphorous refer to Appendix E.

Electrical conductivity values typically adhered to stream discharge patterns across seasons. As discharge decreased towards the drier seasons, water quality decreased with an increase in conductivity values. This was observed across each of the four gauging stations and followed the field assessment snapshot across the impact assessment area. Typically, summer and autumn months had lower electrical conductivity concentrations than those from winter and spring, following a progressively decreasing channel discharge.

Total suspended solids for Condamine River at Tummaville and Macintyre Brook at Booba Sands decreased with a decrease in discharge during winter and spring. In contrast, a trend of increased in total suspended solids was noted during periods of decreased flow (winter and spring) at Macintyre Brook at Inglewood while total suspended solids did not display clear trends with varying discharge at the Gowrie Creek at Oakey station.

Total nitrogen and phosphorous concentration followed the similar trend for suspended total solids for the Condamine River at Tummaville and Macintyre Brook at Booba Sands gauging stations. Decreases in nutrient concentrations (and an increase in water quality) across winter and spring, coinciding with decrease in channel discharge were noted in these two stations and also in Gowrie Creek at Oakey. Similar to the total suspended solids concentrations, within the Macintyre Brook at Inglewood gauging station, no trend in total nitrogen and phosphorus concentrations was evident with decreasing channel discharge.

4.4.5 Climate change

Climate change resilience with explicit regard to water quality, is derived from expected climate change 1% AEP pattern change.

Climate change impacts of the Project have been assessed in accordance with *Australian Rainfall and Runoff: A Guide to Flood Estimation* (Ball et al., 2016) requirements with the representative concentration pathway 8.5 (2090 horizon) scenario adopted. The impacts resulting from changes in peak water levels under the 1% AEP event with climate change are generally similar to those seen under the 1% AEP event without climate change, with some additional impacts on flood sensitive receptors. Considering results from EIS Appendix T: Hydrology and Flooding Technical Report, it is inferred that water quality values would not be expected to be significantly impacted (in terms of differential from current values against current WQOs) from the operation of the Project.

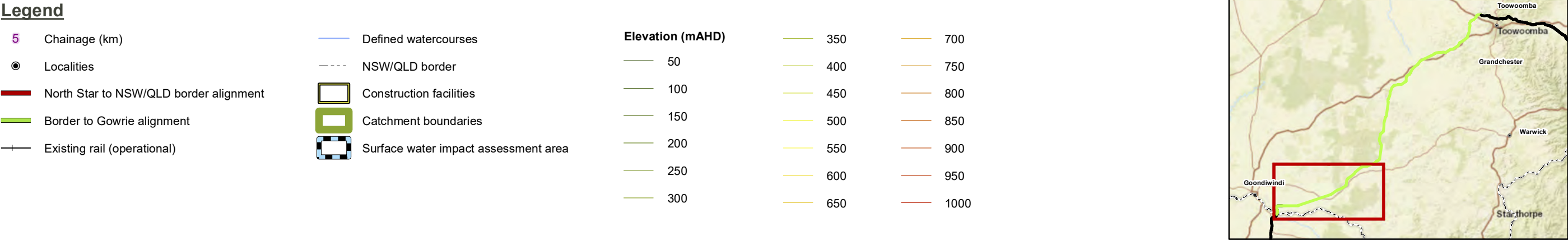
Further details are outlined in EIS Appendix T: Hydrology and Flooding Technical Report.

4.5 Key geology, soils and topography

4.5.1 Geological and topographic setting

The impact assessment area features two distinct areas of high elevation along flat to undulating terrain as the Project footprint passes through the floodplains of the Border Rivers and Condamine River basins (BoM, 2017a). The Project's lowest point of elevation occurs at the southern end of the Project footprint at the Macintyre River with an approximate elevation of 227 m. From this point, elevation along the Project footprint generally increases steadily in a northward direction towards Mount Domville and Commodore Peak, south of Millmerran. The Project footprint peaks at 482 m at Ch 122.2 km as it passes through the Clontarf and Millmerran area before dropping into the Condamine River floodplain, a shallow topographical parabola between Millmerran and Yarranlea with a low point of 377 m. From Yarranlea, the Project footprint increases in elevation until Ch 178.5 km near Southbrook, where a maximum elevation of 595 m is reached. From this high point, elevation of the Project footprint decreases to an end point at Ch 208.2 km of 458 m. Topography of the impact assessment area is shown on Figure 4.7.

Surface geology mapping of Queensland at 1:100,000 scale (Department of Natural Resources, Mines and Energy (DNRME), 2017) shows 12 geological layers underlie the impact assessment area. Geological mapping of the impact assessment area is shown on Figure 4.8.



A3 scale: 1:200,000

0 1.5 3 4.5 6 7.5km



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Border to Gowrie

Figure 4.7a:

Project impact assessment area topography



Map by: LT/AWS/CM 2:GIS/GIS_310_B2G/Tasks/310-EAP-201910101214_SurfaceWaterQuality/310-EAP-201910101214_FF JV_Fig.7_Topography_v10.mxd Date: 18/12/2023 15:15

Legend

- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Defined watercourses
- Construction facilities
- Catchment boundaries
- Surface water impact assessment area

Elevation (mAHd)		
50	350	700
100	400	750
150	450	800
200	500	850
250	550	900
300	600	950
	650	1000



A3 scale: 1:200,000
0 1.5 3 4.5 6 7.5km



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Issue date: 18/12/2023 Version: 10
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.7b:

Project impact assessment area topography



Legend

- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Existing rail (operational)
- Existing rail (non-operational)
- Defined watercourses
- Construction facilities
- Catchment boundaries
- Surface water impact assessment area

Elevation (mAHd)		
50	350	700
100	400	750
150	450	800
200	500	850
250	550	900
300	600	950
	650	1000



A3 scale: 1:200,000
0 1.5 3 4.5 6 7.5km

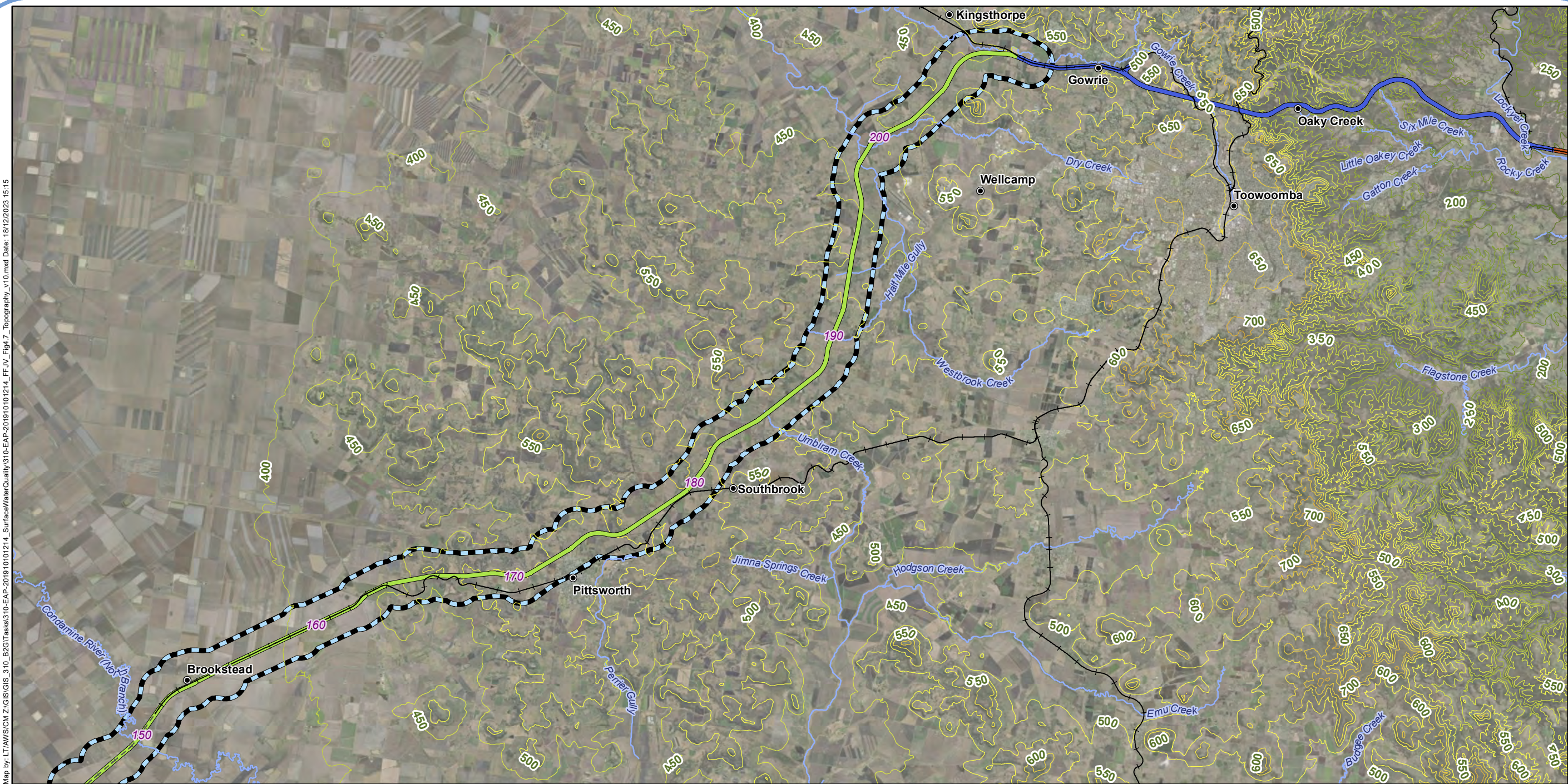


Issue date: 18/12/2023 Version: 10
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.7c:

Project impact assessment area topography



Legend

- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Gowrie to Helidon alignment
- Existing rail (operational)
- Existing rail (non-operational)
- Defined watercourses
- Construction facilities
- Catchment boundaries
- Surface water impact assessment area

Elevation (mAHd)		
50	350	700
100	400	750
150	450	800
200	500	850
250	550	900
300	600	950
	650	1000



A3 scale: 1:200,000
0 1.5 3 4.5 6 7.5km



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Issue date: 18/12/2023 Version: 10
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.7d:

Project impact assessment area topography



Map by: LT/AWS/CM 2:GIS/GIS_310_B2G1Tasks310-EAP-201910101214_SurfaceWaterQuality310-EAP-201910101214_FF JV_Fig1.8_Geology_v9.mxd Date: 18/12/2023 15:12

Legend

- 5 Chainage (km)
- Localities
- North Star to NSW/QLD border alignment
- Border to Gowrie alignment
- Existing rail (operational)
- NSW/QLD border
- Defined watercourses (Water Act 2000)
- Construction facilities
- Surface water impact assessment area

Jurassic

- Eurombah Formation? (Jie?)
- Marburg Subgroup (Jbm)
- Late Jurassic**
- Springbok Sandstone (w) (Jis(w))
- Springbok Sandstone? (Jis?)
- Late Jurassic - Early Cretaceous**
- Kumbarilla beds(w) (JKk(w))
- Middle Jurassic**
- Walloon Coal Measures (Jw)

Quaternary

- Qa-QLD (Qa)
- Qs-SQ (Qs)

Tertiary

- Tb-QLD (Tb)

Ungrouped

- Boxwell Granodiorite (Pmg)
- PRg-SEQ (PRg)
- Pilliga Sandstone (Jp)
- Qac-QLD (Qac)
- Qal-SEQ (Qal)

- Qam-QLD (Qam)
- Qrs-SEQ (Qrs)
- Silver Spur beds (Pss)
- Springbok Sandstone (Jis)
- TQr/b-SEQ (TQr/b)
- TQx-Texas (TQx)
- Texas beds (Ctx)
- Texas beds/j (Ctx/j)
- Texas beds/l (Ctx/l)
- Texas beds/v (Ctx/v)
- Walloon Coal Measures(w) (Jw(w))
- Water body (unspecified) (W)



A3 scale: 1:250,000
0 1.5 3 4.5 6 7.5km

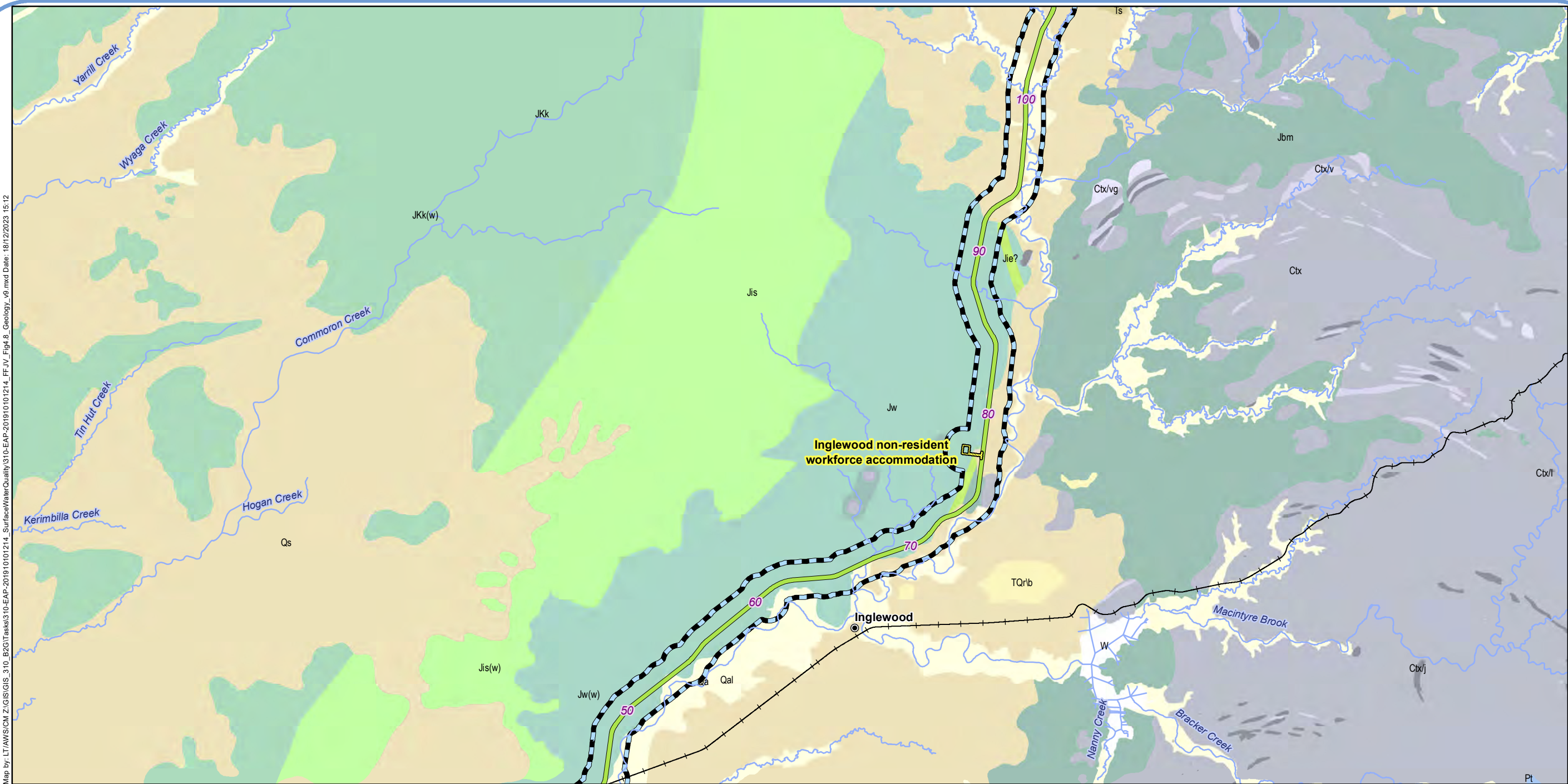


Issue date: 18/12/2023 Version: 9
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.8a:

Project impact assessment area geology



Map by: LT/AWS/CM 2:GIS/GIS_310_B201Tasks/310-EAP-201910101214_SurfaceWaterQuality/310-EAP-201910101214_FFJV_Fig.8_Geology_v9.mxd Date: 18/12/2023 15:12

Legend

- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Existing rail (operational)
- Defined watercourses (Water Act 2000)
- Construction facilities
- Surface water impact assessment area

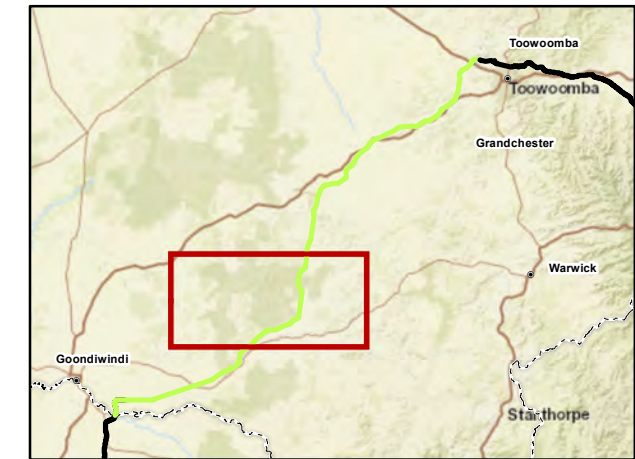
Jurassic

- Eurombah Formation? (Jie?)
- Marburg Subgroup (Jbm)
- Late Jurassic**
- Springbok Sandstone (w) (Jis(w))
- Late Jurassic - Early Cretaceous**
- Kumbarilla beds(w) (JKk(w))
- Middle Jurassic**
- Walloon Coal Measures (Jw)

Quaternary

- Qa-QLD (Qa)
- Qs-SQ (Qs)
- Ungrouped**
- Kumbarilla beds (JKk)
- Qal-SEQ (Qal)
- Springbok Sandstone (Jis)
- TQrb-SEQ (TQrb)
- Terrica beds (Pt)

- Texas beds (Ctx)
- Texas beds/j (Ctx/j)
- Texas beds/l (Ctx/l)
- Texas beds/v (Ctx/v)
- Ts-SEQ (Ts)
- Walloon Coal Measures(w) (Jw(w))
- Water body (unspecified) (W)



A3 scale: 1:250,000
0 1.5 3 4.5 6 7.5km

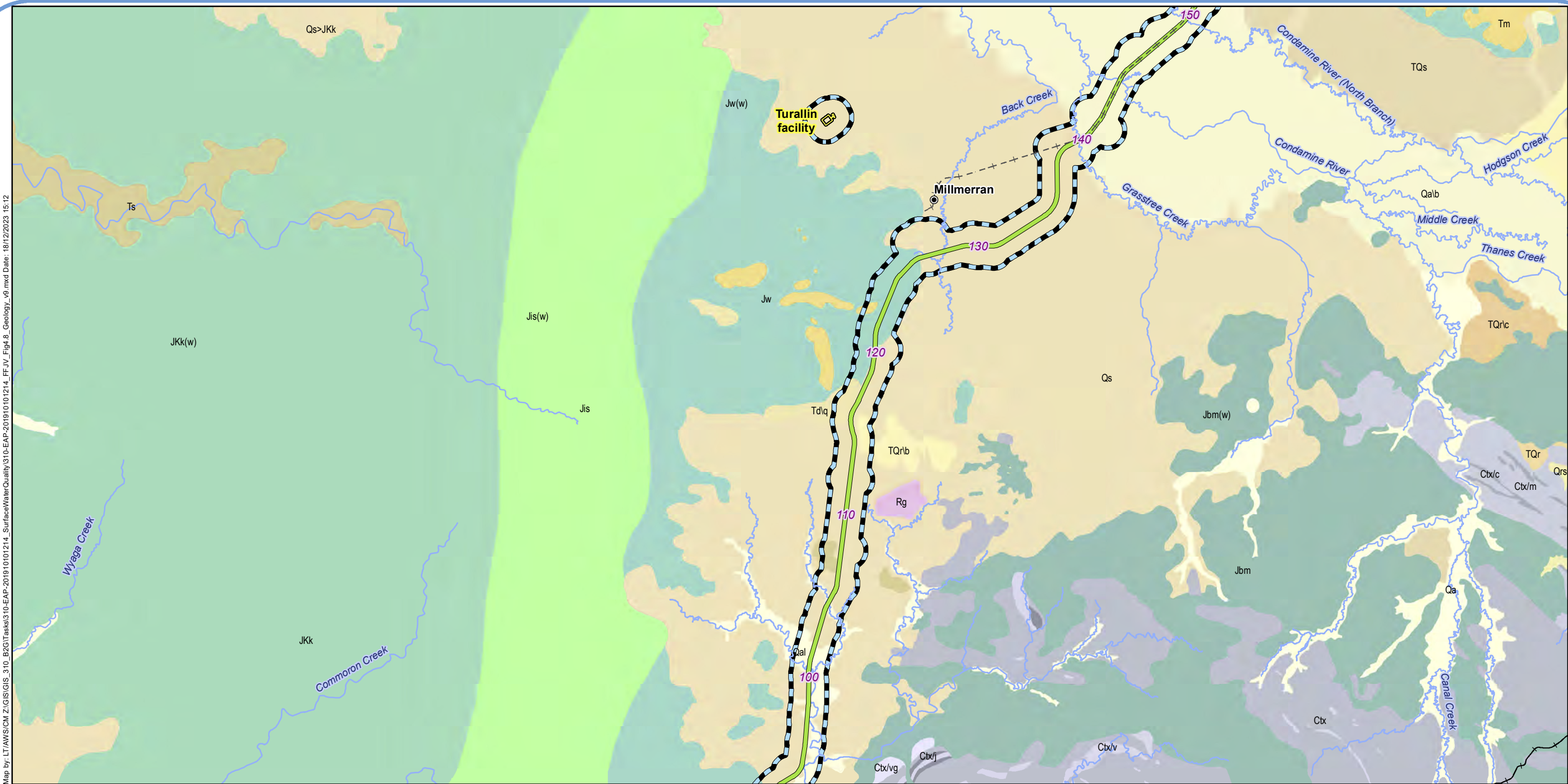


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Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.8b:

Project impact assessment area geology



Map by: LT/AWS/CM 2:GIS/GIS_310_B201Tasks/310-EAP-201910101214_SurfaceWaterQuality/310-EAP-201910101214_FFJV_Fig4.8_Geology_v9.mxd Date: 18/12/2023 15:12

Legend

- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Existing rail (operational)
- Existing rail (non-operational)
- Defined watercourses (Water Act 2000)
- Construction facilities
- Surface water impact assessment area

- | | | |
|---|--------------------------------|----------------------------------|
| Jurassic | Ungrouped | |
| Marburg Subgroup (Jbm) | Kumbarilla beds (JKk) | TQr/c-SEQ (TQr/c) |
| Late Jurassic | Main Range Volcanics (Tm) | TQs-QLD (TQs) |
| Springbok Sandstone (w) (Jis(w)) | Marburg Subgroup(w) (Jbm(w)) | Td/q-QLD (Td/q) |
| Late Jurassic - Early Cretaceous | Qal-b-QLD (Qal/b) | Texas beds (Ctx) |
| Kumbarilla beds(w) (JKk(w)) | Qal-SEQ (Qal) | Texas beds/c (Ctx/c) |
| Middle Jurassic | Qrs-SEQ (Qrs) | Texas beds/j (Ctx/j) |
| Walloon Coal Measures (Jw) | Qs-SQ>Kumbarilla beds (Qs>JKk) | Texas beds/m (Ctx/m) |
| Quaternary | Rg-Texas-SEQ (Rg) | Texas beds/v (Ctx/v) |
| Qa-QLD (Qa) | Springbok Sandstone (Jis) | Texas beds/vg (Ctx/vg) |
| Qs-SQ (Qs) | TQr-QLD (TQr) | Ts-QLD (Ts) |
| | TQr/b-SEQ (TQr/b) | Ts-SEQ (Ts) |
| | | Walloon Coal Measures(w) (Jw(w)) |



A3 scale: 1:250,000
0 1.5 3 4.5 6 7.5km



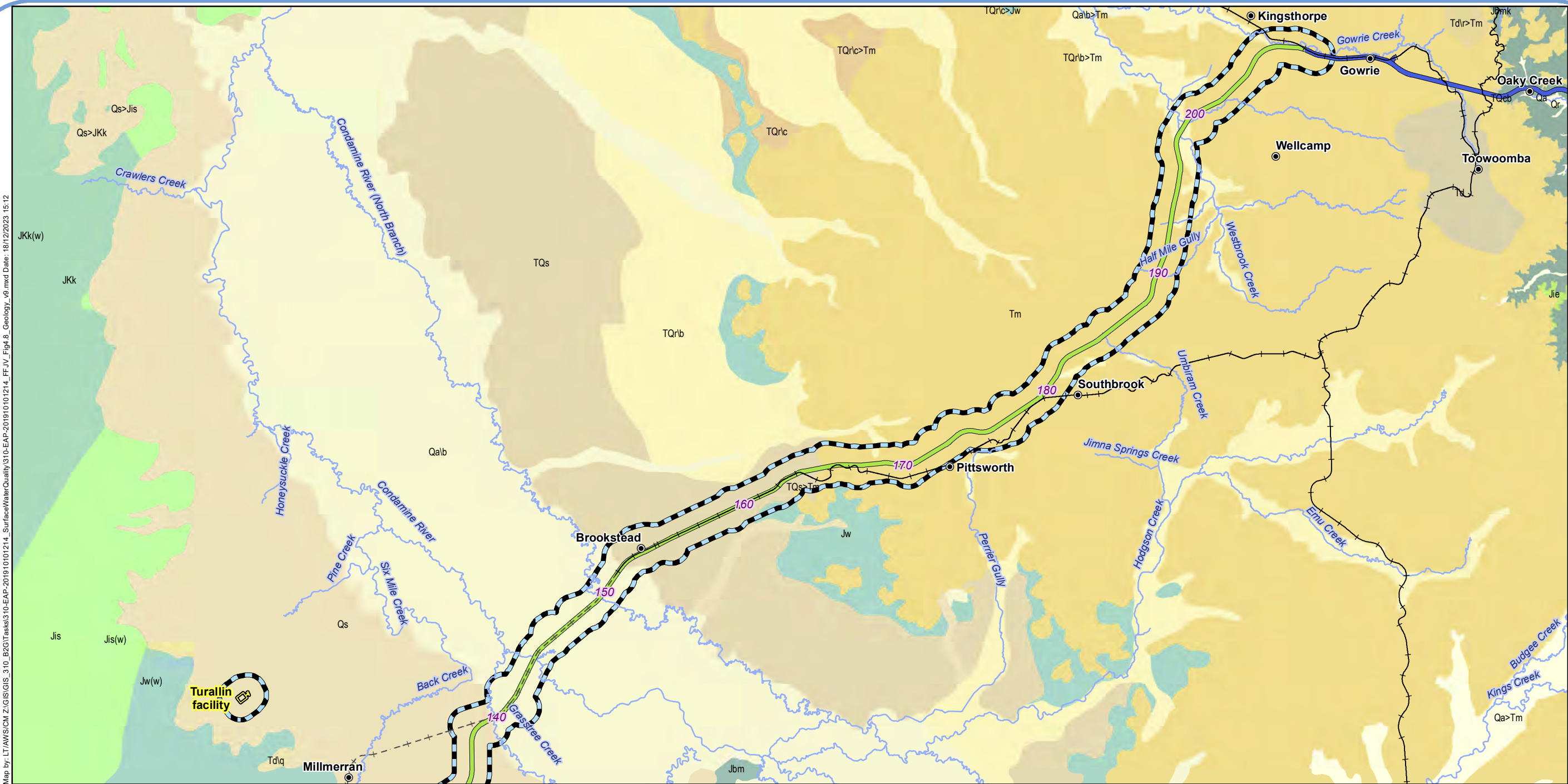
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Border to Gowrie

Figure 4.8c:

Project impact assessment area geology



Legend

- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Gowrie to Helidon alignment
- Existing rail (operational)
- Existing rail (non-operational)
- Defined watercourses (Water Act 2000)
- Construction facilities
- Surface water impact assessment area

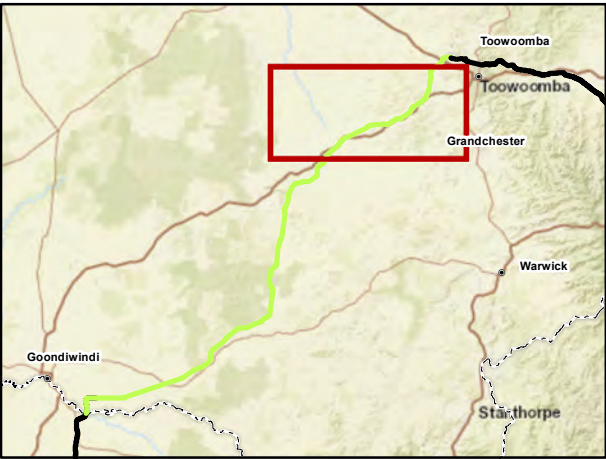
Jurassic

- Marburg Subgroup (Jbm)
- Late Jurassic**
- Springbok Sandstone (w) (Jis(w))
- Late Jurassic - Early Cretaceous**
- Kumbarilla beds(w) (JKk(w))
- Middle Jurassic**
- Walloon Coal Measures (Jw)
- Quaternary**
- Qa-QLD (Qa)
- Qs-SQ (Qs)

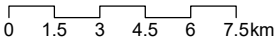
Ungrouped

- Eurombah Formation (Jie)
- Koukandowie Formation (Jbmk)
- Kumbarilla beds (JKk)
- Main Range Volcanics (Tm)
- Qa-QLD>Main Range Volcanics (Qa>Tm)
- Qa\l-QLD (Qa\l)
- Qa\l-QLD>Main Range Volcanics (Qa\l>Tm)
- Qr-QLD (Qr)
- Qs-SQ>Kumbarilla beds (Qs>JKk)
- Qs-SQ>Springbok Sandstone (Qs>Jis)
- Springbok Sandstone (Jis)

- TQcb-SEQ (TQcb)
- TQr\l-SEQ (TQr\l)
- TQr\l-SEQ>Main Range Volcanics (TQr\l>Tm)
- TQr\c-SEQ (TQr\c)
- TQr\c-SEQ>Main Range Volcanics (TQr\c>Tm)
- TQr\c-SEQ>Walloon Coal Measures (TQr\c>Jw)
- TQs-QLD (TQs)
- TQs-QLD>Main Range Volcanics (TQs>Tm)
- Td-QLD (Td)
- Td\l-QLD (Td\l)
- Td\l-QLD>Main Range Volcanics (Td\l>Tm)
- Walloon Coal Measures(w) (Jw(w))
- Walloon Coal Measures>Tib-QLD (Jw>Tib)



A3 scale: 1:250,000



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Issue date: 18/12/2023 Version: 9
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Border to Gowrie

Figure 4.8d:

Project impact assessment area geology

Table 4.4 Geological units

Geological unit	Location	Age	Description
Quaternary sediments (Qs-SQ)	- Northern edge of Rainbow Reserve to Kurumbul - Yelarbon - Canning Creek to Yandilla	Quaternary	Red sandy soil, silt and some gravel, floodout on sheet sand with alluvium deposit. Miscellaneous unconsolidated sediments are the dominant rock type
Kumbarilla Beds	Kurumbul	Late Jurassic to Early Cretaceous	Sandstone, siltstone, mudstone and conglomerate with kaolinized deeply weathered sediments. Arenite-mudrock is the dominant rock type
Springbok Sandstone	- West of Yelarbon - South of the Whetstone State Forest	Late Jurassic	Deeply weathered labile sandstone, siltstone, mudstone and potential of some coal. Arenite-mudrock is the dominant rock type
Walloon Coal Measures	- Northern extent of impact assessment area crossing Whetstone State Forest - West of Domville	Middle Jurassic	Shale, siltstone, sandstone and coal seam dominated by arenite-mudrock.
Quaternary alluvium (Qa-QLD)	- Macintyre River to northern edge of Rainbow Reserve - Southern extent of impact assessment area bordering Whetstone State Forest - Canning Creek to Glenroy	Quaternary	Clay, silt, sand and gravel on a floodplain dominated by alluvium.
Eurombah Formation	West of Avondale	Jurassic	Clayey sub-labile sandstone, some conglomerate, siltstone and mudstone dominated by sedimentary rock types.
TS-SEQ	South of Millwood	Tertiary	Quartzose to sub-labile sandstone, claystone, conglomerate with minor olivine basalt.
TQR/B-SEQ	South of Clontarf	Late Tertiary to Quaternary	Residual deposits and pediment slope wash consisting of clay, scree and soil developed from basalt. Dominated by colluvium.
QA/B-QLD	Pampas	Quaternary	Silt and mud (black soil) with basalt-derived alluvium. Dominated by alluvium.
TQS-QLD	Brookstead	Late Tertiary to Quaternary	Clayey sand, gravel, silt and mud passing into semi-consolidated clayey sandstone, conglomerate and claystone consisting of local ironstone nodules and siltstone. Dominated by poor, consolidated sediments.
Main Range Volcanics (MRV)	Yarranlea to Gowrie	Eocene to Miocene	Olive basalt dominated by basalt rock.
TQR/B-SEQ>MRV	Wellcamp	Late Tertiary to Quaternary	Residual deposits on weathered Crows Nest Granite, dominated by miscellaneous and unconsolidated sediments.
Marburg Subgroup (Koukandowie Formation)	- South of Millmerran - Southwest of Grays Gate	Early to Middle Jurassic	Lithofeldspathic labile to sublabile sandstone, siltstone, shale, minor coal, ferruginous marker bed dominated by arenite mudrock.

Geological unit	Location	Age	Description
QAL-SEQ	- Northeast of Inglewood - Bringalily	Quaternary	Silt and clay lakes in alluvial plains with stratified units including volcanic and metamorphic rock.
Texas Beds	Northeast of Inglewood	Early Carboniferous	Thin to thick-bedded, volcanoclastic arenite, siltstone, mudstone and slate; local phyllite; sporadic lenses of jasper, chert, limestone and mafic volcanics; rare conglomerate.
QA/B-QLD	Pampas	Quaternary	Silt, mud (black soil); basalt-derived alluvium.
TD/Q-QLD	Southwest of Grays Gate	Tertiary	Silcrete and silicified quartz sandstone; duricrust.
TQS-QLD>MRV	South of Pittsworth	Late tertiary to Quaternary	Clayey sand, gravel, silt and mud passing into semi-consolidated clayey sandstone, conglomerate and claystone; local ironstone nodules, siltstone.

4.5.2 Soil condition

4.5.2.1 Soil description

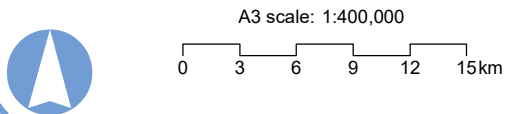
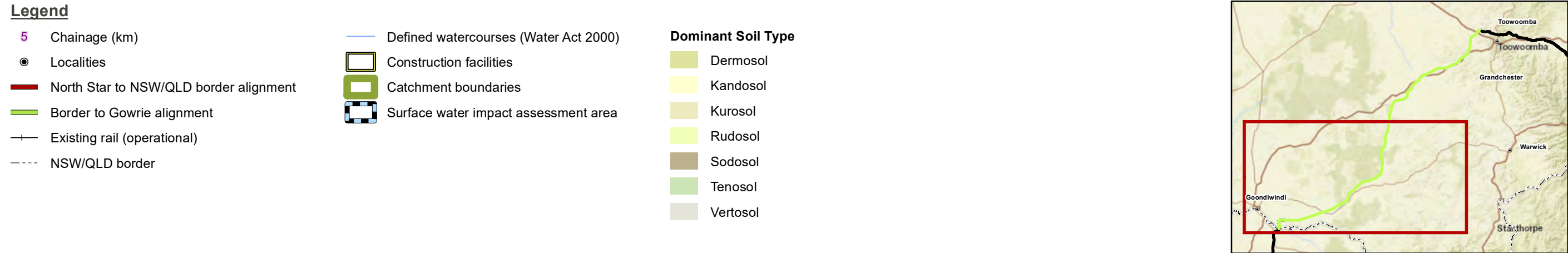
Australian Soil Classification mapping (Isbell and National Committee on Soil and Terrain (NCST), 2016) indicates a high variability in soil type along the Project footprint, including the occurrence of vertosols, dermosols, chromosols, kandosols and sodosols (Figure 4.9).

Vertosols are mapped as the dominant types in several areas along the Project footprint, including the open plains west of Kooroongarra to Commodore Mine (Ch 100.0 km to Ch 135.0 km) as well as the entire extent of the impact assessment area from Yandilla to Gowrie (Ch 140.0 km to Ch 208.2 km), where land for grazing and cropping is prominent. A small area of vertosols are also mapped underlying the section of Project footprint between the northern edge of Rainbow Reserve and Kurumbul (Ch 36.0 km (NS2B) to Ch 8.0 km).

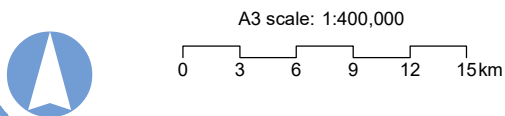
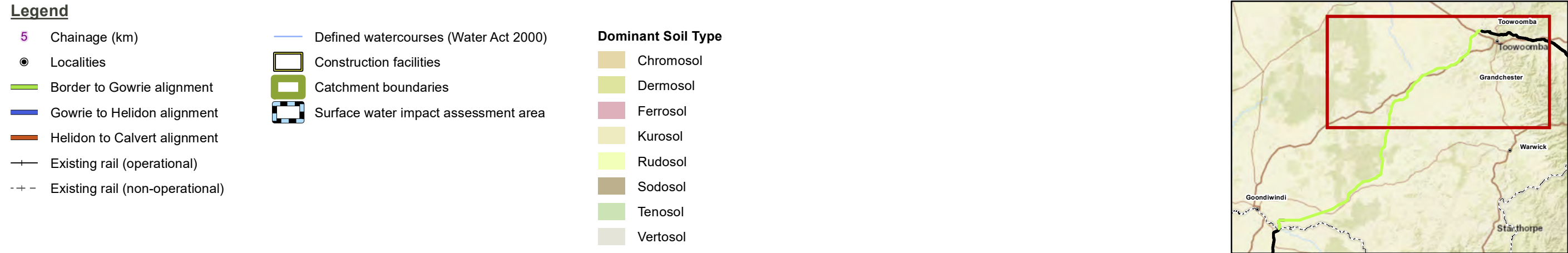
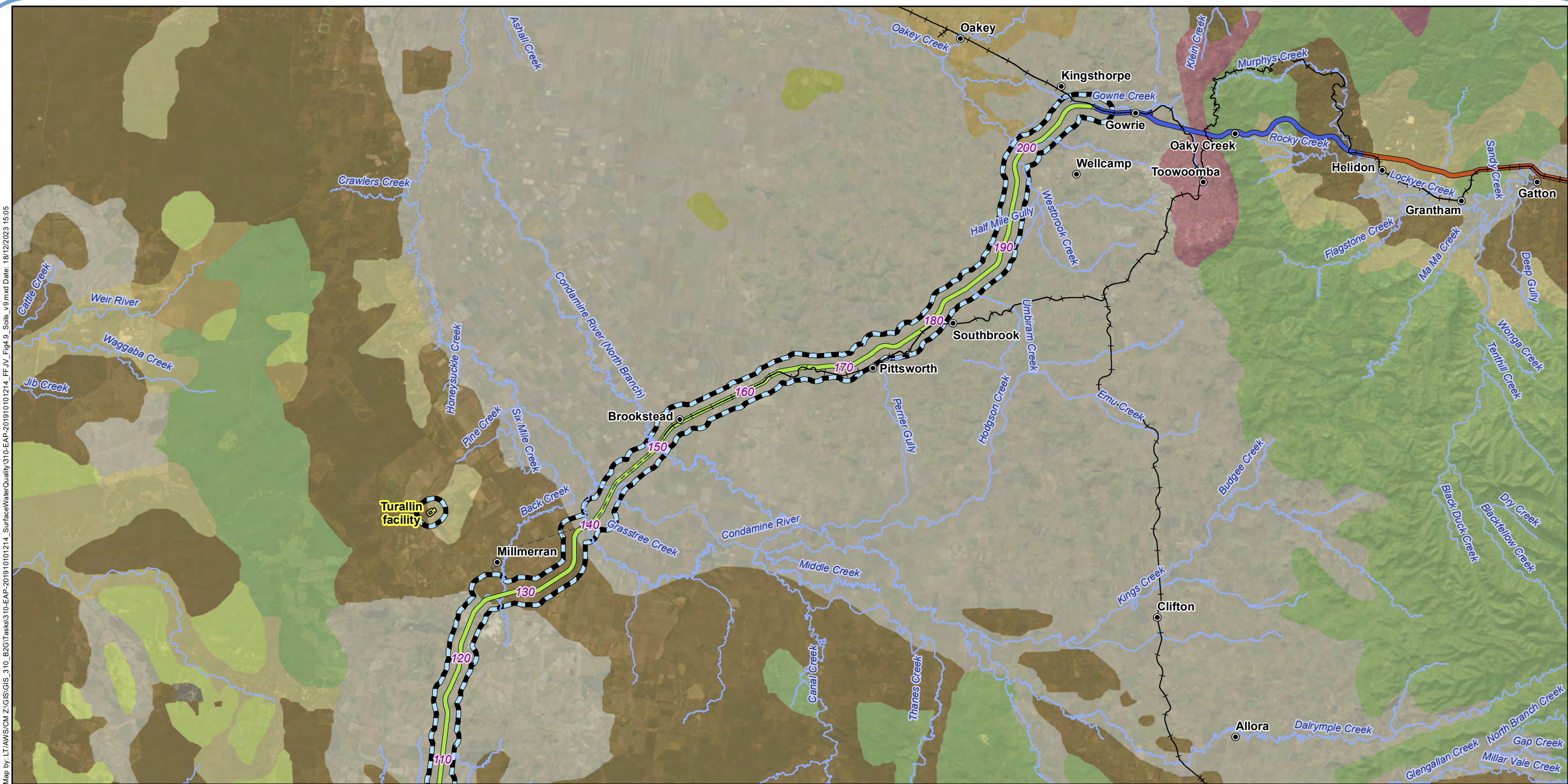
Vertosols are identifiable as a cracking clay soil with a clay field texture and a crusty surface horizon at a depth of 0.03 m or less in thickness (Isbell and NSCT, 2016). Vertosols are often found in imperfectly drained sites with annual rainfall up to 1,150 mm and in well-drained sites with annual rainfall up to 900 mm. As the soil has a strong water holding capacity and high chemical fertility, the soil is considered to have a high agricultural potential (Gray & Murphy, 2002). A majority of vertosols have neutral or alkaline soil pH and generally have high cation exchange capacity between 30 and 80 milliequivalents per 100 grams (meq/100 g) (Gray & Murphy, 2002).

Sodosols are the dominant soil type along the Project footprint between the Macintyre River (Ch 30.6 km (NS2B)) and the semi-arid region of Yelarbon (Ch 30.0 km), as well as along the fertile lands north of Inglewood (Ch 65.0 km) to the west of Kooroongarra (Ch 100.0 km), with a small area also mapped east of Millmerran (Ch 133.0 km to Ch 138.0 km).

Sodosols are predominately found in poorly drained sites with annual rainfall between 50 mm and 1,100 mm. The soil is defined by a clear or abrupt textural B horizon with a major part of the upper 0.2 m of the B horizon being sodic and not strongly acidic (pH > 5.5) (Isbell and NCST, 2016). The high sodicity of the soil makes it highly erodible with poor structure and low permeability and is often associated with saline soils. As such, sodosols have very low agricultural potential (Gray & Murphy, 2002). Primary, or naturally occurring, salinity in topsoil ranged between 'Very low' and 'Medium' for the Project footprint. Areas of 'Medium' topsoil salinity were generally identified around the township of Yelarbon (Ch 27.0 km), which is known for its saline soils and the prevalence of spinifex, south of Bringalily (Ch 103.0 km), south of Millmerran (Ch 117.0 km to Ch 126.0 km) and around Brookstead (Ch 140.0 km to Ch 161.0 km).



Border to Gowrie
Figure 4.9a:
Australian soil classification relative to the impact assessment area



Border to Gowrie
Figure 4.9b:
Australian soil classification relative to the impact assessment area

Subsoil salinity ratings ranged from 'Very low' to 'Extreme' within the Project footprint. Areas of 'Extreme' subsoil salinity were generally limited to areas around Yelarbon (Ch 8.0 km to Ch 25.0 km), Yarranlea (Ch 161.0 km to Ch 165.0 km) and between Athol (Ch 191.0 km) and Wellcamp (Ch 200.0 km).

An approximate 25 km stretch of dermosols intermittently underlies the Project footprint between Yelarbon (Ch 30.0 km) and Whetstone (Ch 55.0 km).

Dermosols are red, brown, yellow, grey or black and have loam to clay textures with a well-structured B2 horizon containing low levels of free iron. The soils are normally found in areas of imperfectly drained sites with annual rainfall between 550 mm and 1,350 mm and in well-drained sites, annual rainfall between 450 mm and 1,200 mm. Dermosols generally have a high agricultural potential given their good structure, moderate to high chemical fertility and high water holding capacity (Gray & Murphy, 2002).

The Project footprint intersects a small area of chromosols, from Ch 37.0 km to Ch 41.0 km, between occurrences of dermosols at the southern edge of the Whetstone State Forest.

Chromosols are soils with moderate agricultural potential due to moderate chemical fertility, water holding capacity and susceptibility to soil acidification causing structural decline (Gray & Murphy, 2002). The soil is also defined as strong textural contrast soils that are neither strongly acidic or sodic in the upper B horizon. In imperfectly drained sites, chromosols can be found in areas of annual rainfall between 250 mm and 900 mm, whilst in well-drained sites, annual rainfall between 350 mm and 1,400 mm is necessary for chromosols to be present.

Areas of mapped kandosols occur intermittently along the Project footprint, aligned with the southern edge of Bringalily State Forest (Ch 47.0 km to Ch 65.0 km).

Kandosols are soils with weak texture contrast between the A and B horizon, which is also identified as having a weak structure and not calcareous. Parent materials of kandosols range from highly siliceous to intermediate in composition and found usually in areas of poorly drained sites (yellow and grey kandosols) with rainfall between 300 mm and 1,400 mm. In well-drained site, considered as areas with 250 mm to 1,400 mm rainfall, will likely contain brown and red kandosols. The soil is known to have low to moderate agricultural potential with moderate chemical fertility as well as water holding capacity. Kandosols are not very dispersive and have neutral to strongly acidic (pH 5.5) soils which increase in acidity with depth (Gray & Murphy, 2002).

4.5.2.2 Acid sulfate soils and acid rock

Acid sulfate soils (ASS) are predominantly a coastal and near-coastal soil, sediment or other materials containing iron sulfides which generate acidic conditions when exposed to oxygen. ASS, in general, have a field pH of 4 or less and can be visually identified through the presence of jarosite or iron oxide in the soil horizon. They are often associated with low lying areas below 5 m Australian Height Datum (AHD), such as alluvial plains where groundwater is generally close to the surface and materials are in reducing condition along coastal regions. ASS in non-coastal areas are commonly known as inland ASS (Department of Science, Information Technology, Innovation and the Arts 2014).

In Queensland, inland ASS can also be found in parts of central Queensland at elevations above 5 m AHD if an anoxic, aqueous environment which consists of sulfate-reducing bacteria and available sulfate ions exist (Department of Science, Information Technology, Innovation and the Arts, 2014; EPHC and NRMMC, 2011). Inland ASS is generally associated with poorly drained inland basins with stagnant water bodies in distinctly seasonal, arid climates but are not widely distributed in Queensland. However, inland ASS are known to occur in landscapes with high levels of salt, where significant concentrations of sulfate reside.

Acid sulfate soils (ASS) have been found in effluent ponds and in several north-draining streams and wetlands just north of the Granite Belt, in the uppermost reaches of the Condamine River catchment (EPHC and NRMMC, 2011).

The *National guidance for the management of acid sulfate soils in inland aquatic ecosystems* (EPHC and NRMMC, 2011) provides a protocol for assessing the likelihood of an aquatic ecosystem containing ASS. This assessment protocol requires consideration to be given to presence and permanency of surface water in an area, in addition to the pH and salinity of those waters.

An assessment, consistent with assessment protocol in the *National guidance for the management of acid sulfate soils in inland aquatic ecosystems*, has been undertaken using surface water sampling data collected to inform the development of the EIS. This assessment is presented in Table 4.5. Application of the assessment protocol indicates that, based on the pH and salinity of the surface waters in the area and the known flooding history of the region, there is a low risk of presence of ASS in the majority of the inland aquatic ecosystems within the impact assessment area.

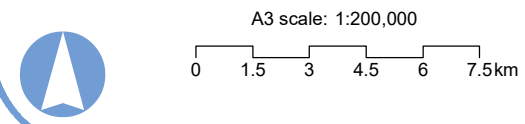
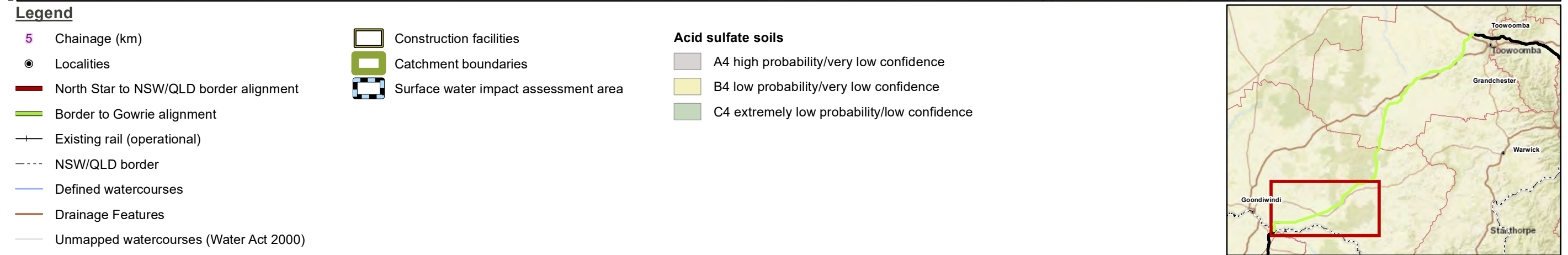
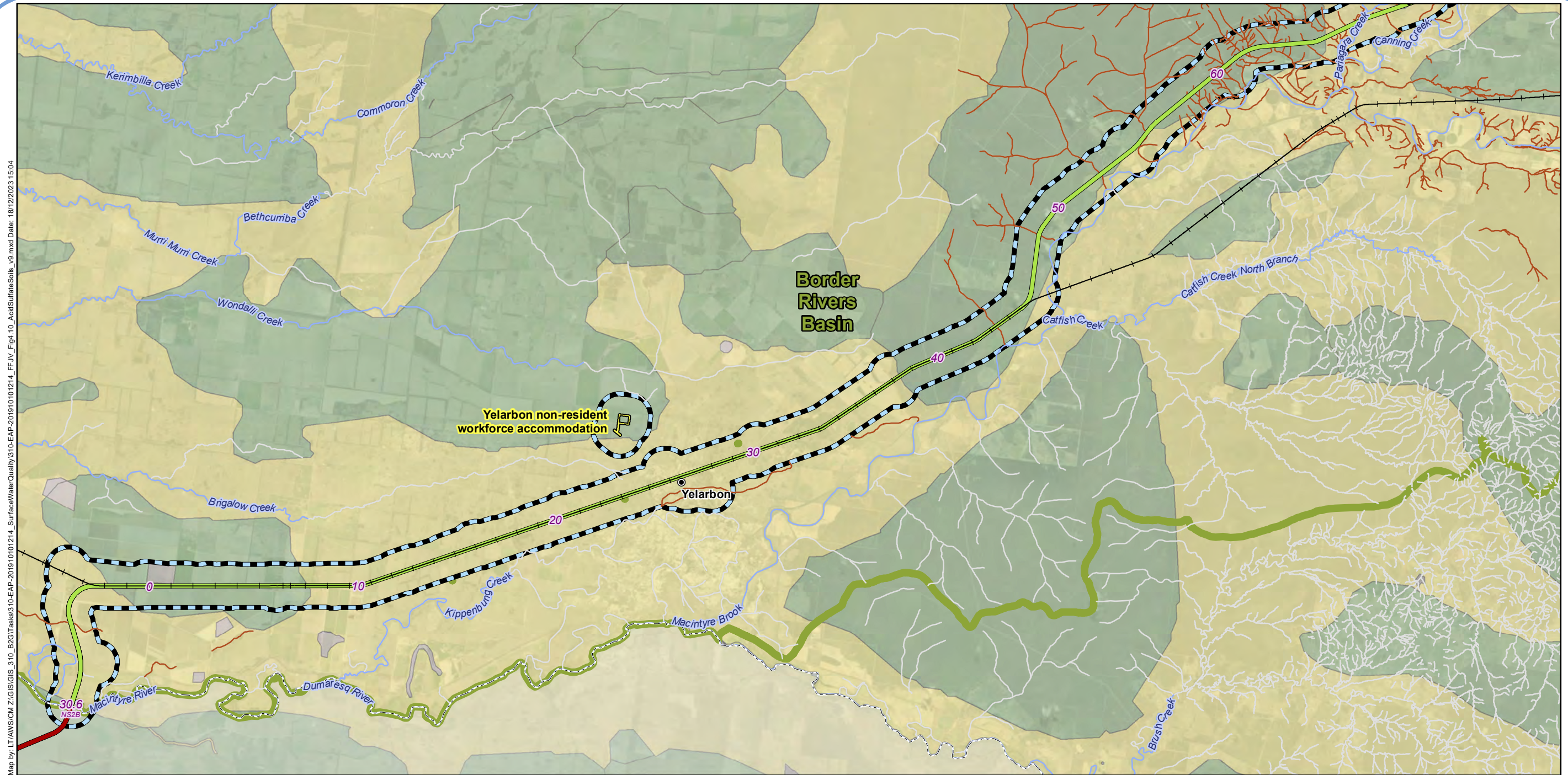
Table 4.5 Summary of acid sulfate soil parameters at select aquatic ecosystems

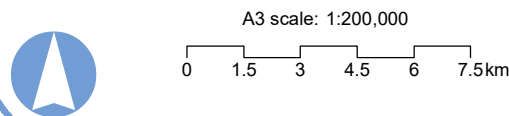
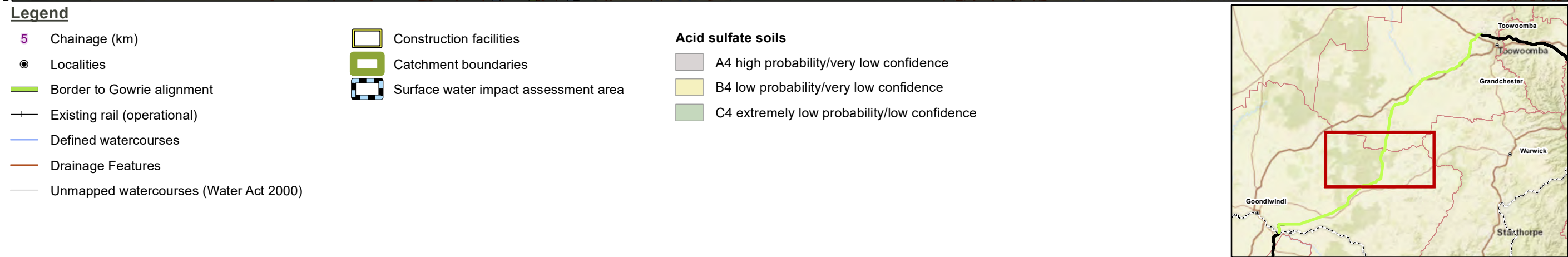
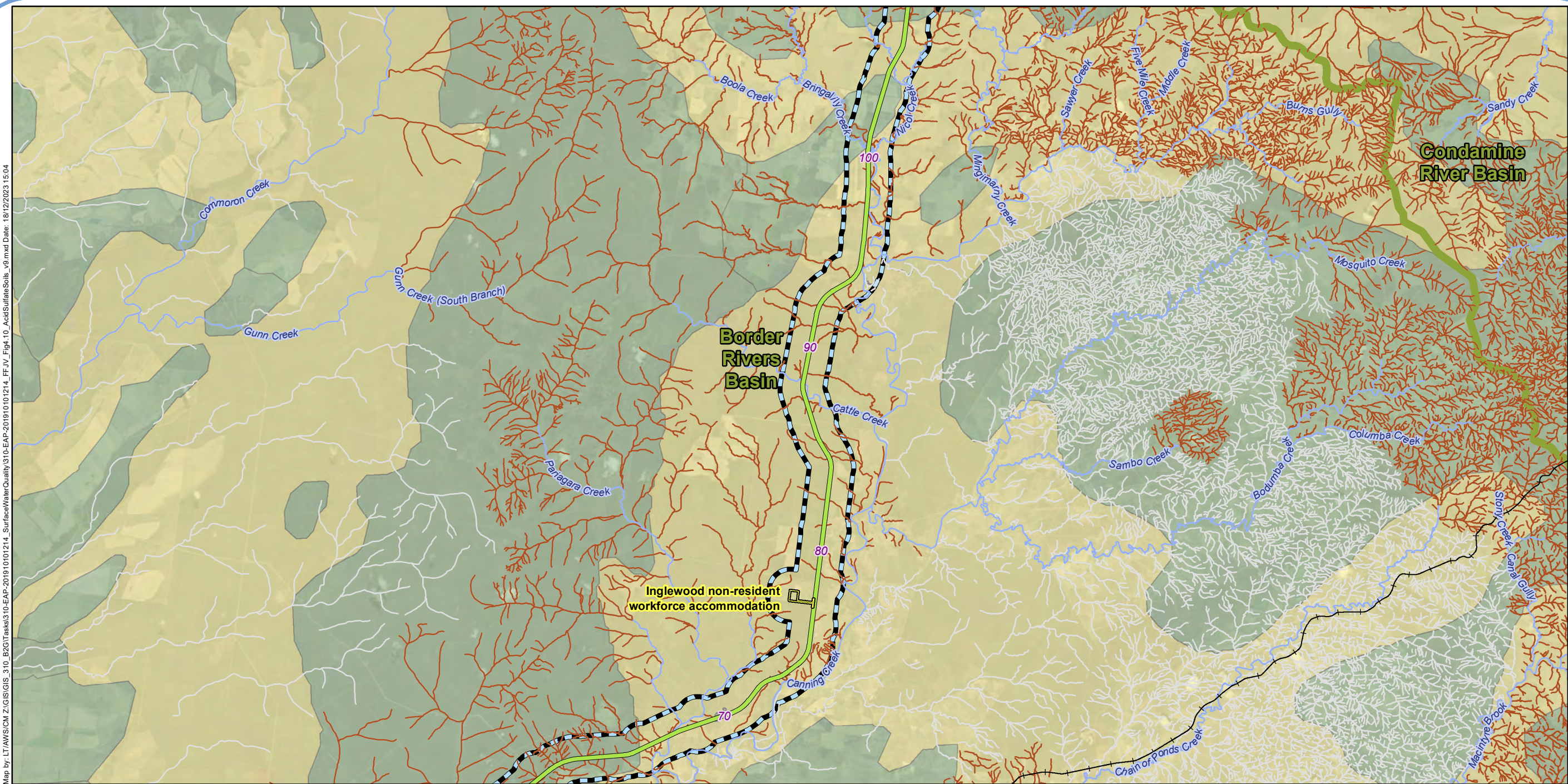
Sub-catchment, basin and sample location ID	pH	Electrical conductivity (µS/cm)	Hydrological characteristics	Comments
Sub-catchment: Macintyre Barwon Floodplain Basin: Queensland Border Rivers Basin Sample sites: 2 and 2R	6.77 to 7.76	211 to 299	Permanent waterway	Based on water quality data, low ASS risk for the aquatic ecosystem except for within permanent waterways
Sub-catchment: Lower Macintyre Brook Basin: Queensland Border Rivers Basin Sample sites: Site 3 to 8	5.58 to 7.97	334 to 449	Permanent waterway	Based on water quality data, low ASS risk for the aquatic ecosystem except for within permanent waterways
Sub-catchment: Canning Creek Basin: Queensland Border Rivers Basin Sample sites: 9 to 20	7.00 to 8.39	160 to 1,255	Include several ephemeral watercourses, found dry at time of survey	Low or no ASS risk for the aquatic ecosystem except for within permanent waterways
Sub-catchment: Southern Condamine Basin: Condamine River Basin Sample sites: 21 to 26	7.18 to 8.18	267 to 580	Include several ephemeral watercourses, found dry at time of survey	Low or no ASS risk for the aquatic ecosystem except for within permanent waterways
Sub-catchment: Central Condamine Basin: Condamine River Basin Sample sites: 27 to 33	7.70 to 9.13	212 to 588	Include several ephemeral watercourses, found dry at time of survey	Low or no ASS risk for the aquatic ecosystem except for within permanent waterways
Sub-catchment: Oxley Creek Basin: Condamine River Basin Sample sites: 34 to 43	8.12 to 8.54	680 to 2,632	Include several ephemeral watercourses, found dry at time of survey	Low or no ASS risk for the aquatic ecosystem except for within permanent waterways

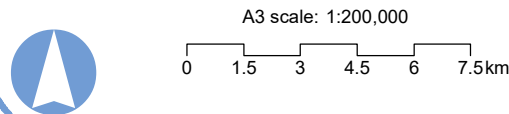
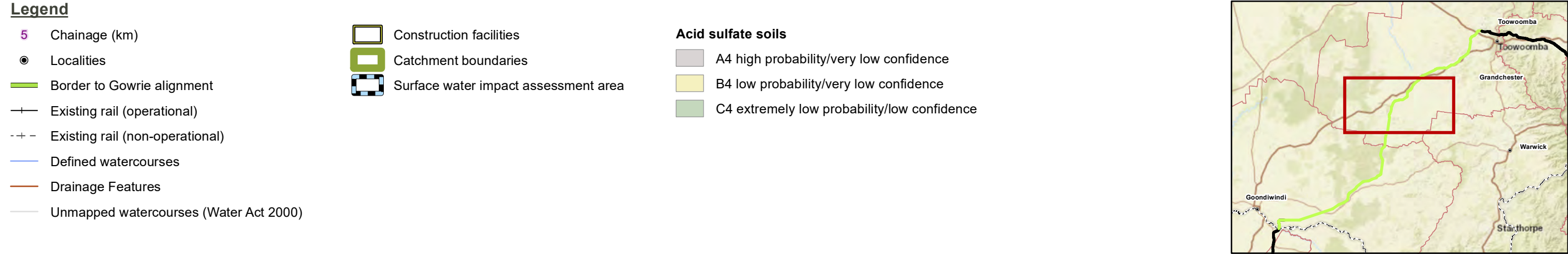
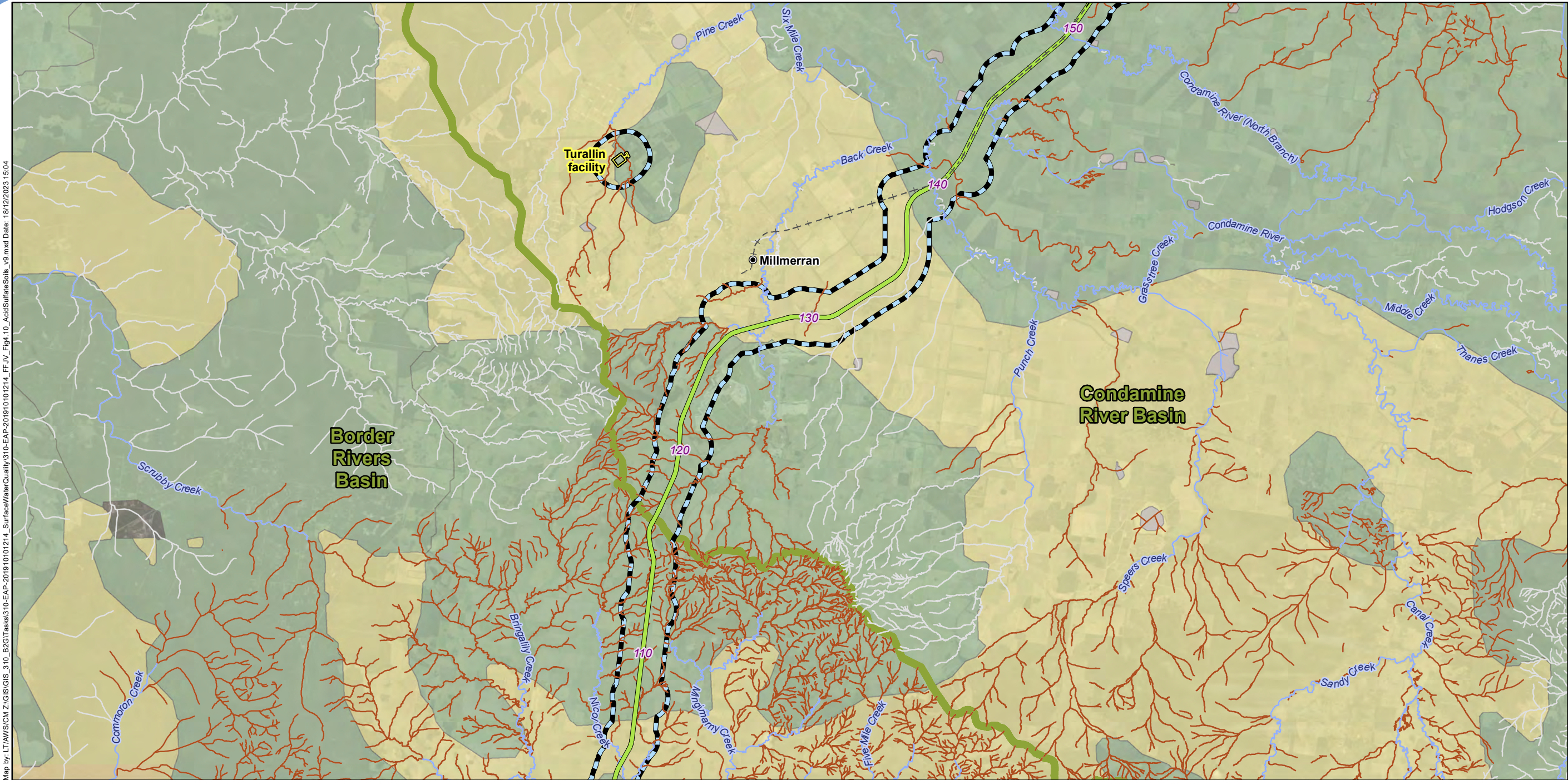
Additionally, an assessment of ASS using the *Australian Soil Resource Information System* mapping (Commonwealth Scientific and Industrial Research Organisation (CSIRO), 2014a) and *Atlas of Australian Sulfate Soils* (CSIRO, 2014b) has been undertaken, with mapping presented on Figure 4.10 indicated a 'low probability' of ASS to occur within the floodplain of Macintyre River and Macintyre Brook, as well as between Millmerran and Yandilla.

Isolated areas of 'high probability' ASS occur throughout the impact assessment area. These localised occurrences are, for the most part, associated with natural and man-made surface water storages or impoundments.

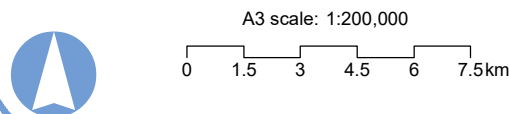
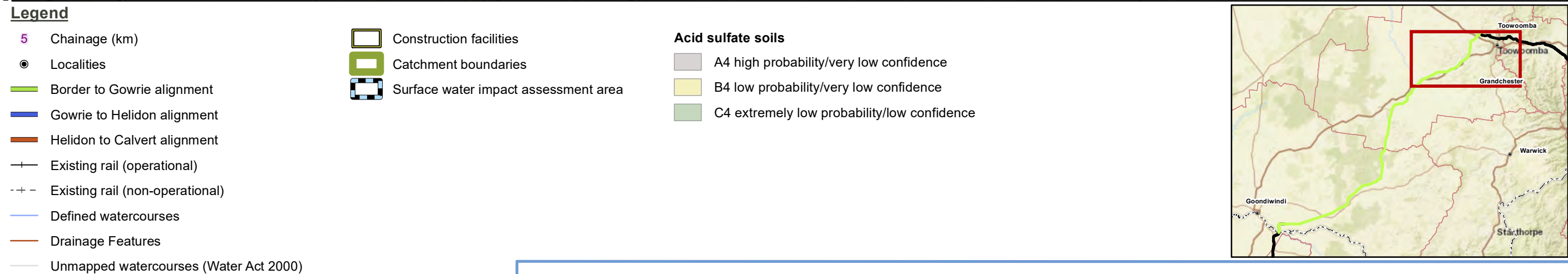
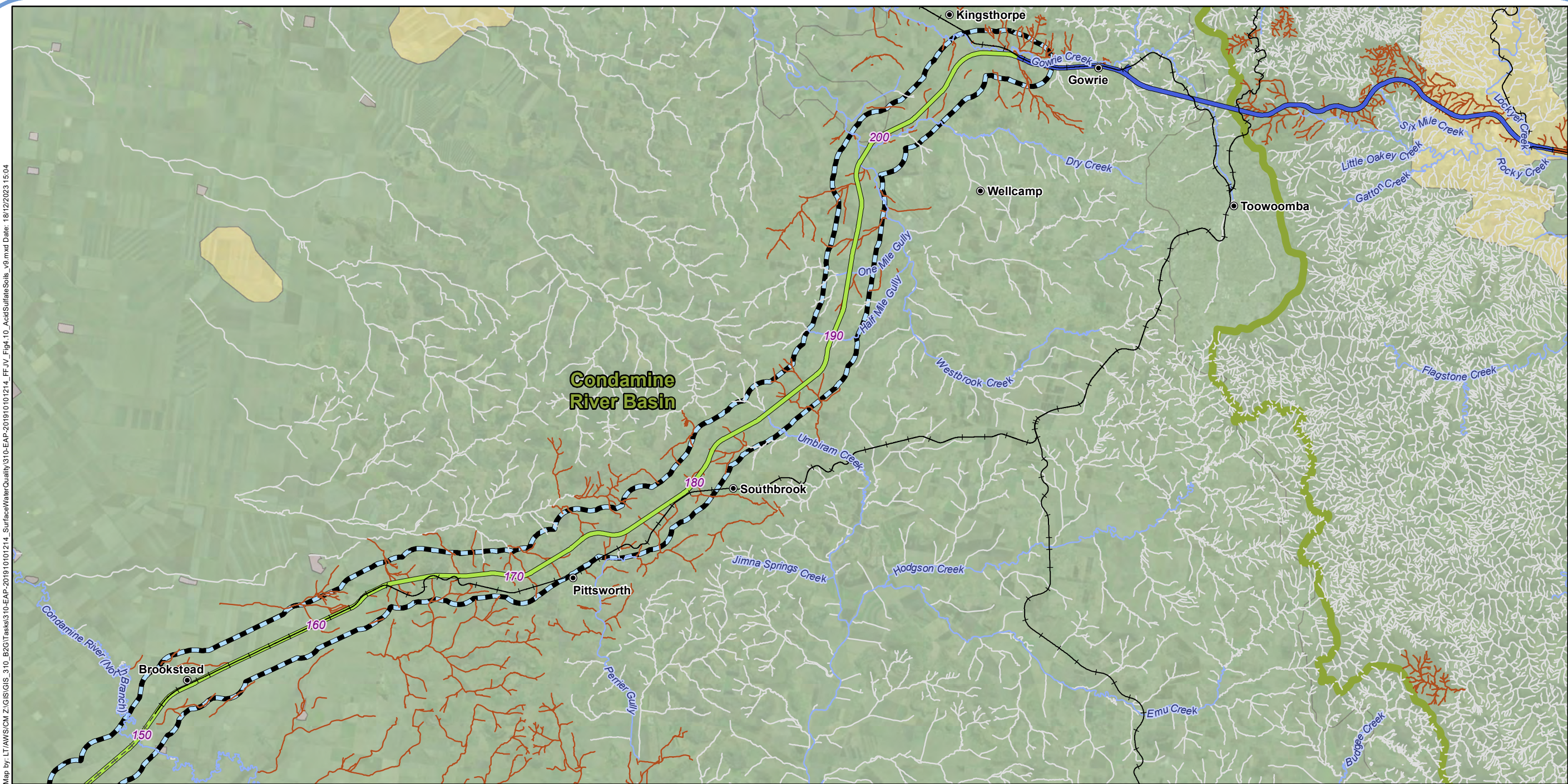
Based on the underlying geology of the impact assessment area, the surface water quality data as well as existing ASS mapping, there is considered to be a low risk of inland ASS or potential inland ASS present within the majority of the impact assessment area. Further sediment assessment will be necessary to establish the location-specific risk of ASS occurrence where construction activities are required within permanent waterways along the Project footprint.







Border to Gowrie
Figure 4.10c:
Acid sulfate soils relative to the impact assessment area



Acid rock occurs when sulphide minerals are exposed to air and water. This process is accelerated through excavation activities which increase rock exposure to air, water, and microorganisms. Acid rock has potential to produce neutral to acidic drainage, which may occur with dissolved heavy metals and significant sulfate levels. Based on the geological conditions within the impact assessment area, the likelihood of encountering acid rock is considered to be low.

No visual indications of presence of ASS or acid rock were identified during geotechnical investigations for the Project, which included site walkovers.

4.5.2.3 Soil acidity

Where surface water runoff interacts with acidic soils, the pH of that runoff may be lowered to acidity levels below the natural pH variation of receiving waters. This has a potential impact on water quality, aquatic ecosystems and biodiversity within these waters. Referring to EIS Appendix J: Soil Assessment Report, the soil assessment has confirmed natural surface and upper subsoil acidity occurs in some of the soils, particularly in the southern half of the rail corridor. This region being largely influenced by the coarser-textured materials derived from the Walloon Coal Measures associated with the Bringalily State Forest area. Soils include:

- Vertosols (PSC Kurumbul, Gate, and Edgefield) and Dermosols (PSC Murra Cul Cul and Downfall) developed on Springbok Sandstone and Quaternary sediments downslope of the Bringalily State Forest area
- Sodosols (PSC Bendidee and Weranga) developed on the Walloon Coal Measures and Quaternary sediments downslope of the Bringalily State Forest area
- Kurosols (PSC Uranilla) developed on the Walloon Coal Measures
- Chromosols (PSC Combidiban) developed on the Eurombah Formation; associated with the Walloon Coal Measures
- Tenosols/Rudosols (PSC Knoll and Wondoogle) developed on the Walloon Coal Measures and Quaternary sediments downslope of the Bringalily State Forest area.

In contrast, only one site in the north had acidification. This was a Red Ferrosol (PSC Burton), which in part confirmed the findings of Biggs, Clark & Hall (Unpublished).

Acidification, resulting from land management practices, does not appear to be occurring to soils within the rail corridor. This suggests it is not occurring beyond natural occurrences or land management practices are preventing acidification from occurring.

Construction soil management practices to manage soil acidification are detailed in EIS Appendix AB: Earthworks Strategy and Draft Soil Management Plan. Amelioration of some areas/soils with lime may be recommended to assist with revegetation and to prevent degradation because of construction activities. In some instances, stripping upper subsoils separately to lower subsoils (as with salinity and sodicity) would likely be advantageous to treat each layer of material more effectively with different rates.

Table 4.6 Soil acidity along the Project footprint

Sample site	Soil type	Chainage (km)	pH
310-03-AH3026	Epicalcareous Self-mulching Black Vertosol	7	6.57
310-03-AH3047	Episodic-Epicalcareous Crusty Grey Vertosol	16	7.27
310-03-AH3056	Acidic-Sodic Eutrophic Brown Dermosol	19	5.57
310-03-AH3057	Episodic-Endocalcareous Crusty Brown Vertosol	19	6.48
310-03-AH3081	Bleached-Sodic Hypocalcic Brown Dermosol	26	7.92
310-03-AH3098	Mottled-Sodic Calcic Brown Dermosol	27	7.56
310-03-AH3110	Mottled-Sodic Hypocalcic Black Dermosol	29	7.47
310-03-AH3116	Eutrophic Mottled-Hypernatric Brown Sodosol	30	4.56

Sample site	Soil type	Chainage (km)	pH
310-03-AH3882	Haplic Eutrophic Brown Dermosol	31	8.10
310-03-AH3881	Haplic Eutrophic Grey Dermosol	31	6.30
310-03-AH3122	Hypercalcic Mottled-Hypernatric Yellow Sodosol	32	6.77
310-03-AH3879	Stratic Arenosol	32	6.36
310-03-AH3126	Calcic Mottled-Hypernatric Brown Sodosol	33	5.54
310-03-AH3874	Episodic-Endocalcareous Crusty Black Vertosol	33	6.83
310-03-AH3865	Haplic Crusty Black Vertosol	35	6.75
310-03-AH3864	Epidosdic Crusty Red Vertosol	35	6.88
310-03-AH3135	Calcic Mottled-Hypernatric Brown Sodosol	35	6.58
310-03-AH3137	Endocalcareous-Endohypersodic Epipedal Grey Vertosol	35	8.64
310-03-AH3842	Epicalcareous-Endohypersodic Crusty Grey Vertosol	38	8.31
310-03-AH3156	Grey Sodosol	39	5.21
310-03-AH3162	Eutrophic Mottled-Subnatric Grey Sodosol	41	5.18
310-03-AH3166	Eutrophic Mottled-Subnatric Grey Sodosol	42	5.63
310-03-AH3177	Mottled-Sodic Eutrophic Brown Dermosol	45	6.29
310-03-AH3178	Magnesian Mottled-Mesonatric Grey Sodosol	46	5.60
310-03-AH3191	Eutrophic Mottled-Hypernatric Grey Sodosol	48	6.33
310-03-AH3194	Grey Kurosol	49	3.97
310-03-AH3199	Grey Sodosol	50	4.02
310-03-AH3198	Mottled Natric Grey Kurosol	50	4.61
310-03-AH3212	Mottled-Sodic Eutrophic Yellow Dermosol	54	7.99
310-03-AH3211	Grey Sodosol	54	4.05
310-03-AH3220	Mottled-Sodic Eutrophic Black Dermosol	54	6.37
310-03-AH3224	Grey Sodosol	56	4.80
310-03-AH3227	Brown Kurosol	57	4.19
310-03-AH3230	Mottled Natric Brown Kurosol	58	4.84
310-03-AH3234	Brown Kurosol	59	4.11
310-03-AH3236	Brown Kurosol	60	4.28
310-03-AH3244	Acidic Lithic Brown Tenosol	61	4.33
310-03-AH3248	Bleached-Mottled Natric Yellow Kurosol	62	4.63
310-03-AH3249	Mottled Natric Brown Kurosol	62	4.48
310-03-AH3256	Eutrophic Mottled-Mesonatric Yellow Sodosol	64	4.76
310-03-AH3259	Mottled Natric Grey Kurosol	65	5.47
310-03-AH3266	Basic Regolith Brown Tenosol	67	5.35
310-03-AH3270	Eutrophic Mottled-Subnatric Brown Sodosol	68	5.57
310-03-AH3272	Sodic Eutrophic Grey Dermosol	69	6.37
310-03-AH3276	Hypocalcic Mottled-Hypernatric Brown Sodosol	70	5.35
310-03-AH3286	Mottled-Sodic Hypocalcic Red Chromosol	73	5.03
310-03-AH3295	Eutrophic Mottled-Mesonatric Brown Sodosol	75	6.05
310-03-AH3303	Sodic Eutrophic Black Dermosol	76	5.90
310-03-AH3307	Hypocalcic Mottled-Hypernatric Brown Sodosol	77	6.51
310-03-AH3311	Bleached-Sodic Magnesian Brown Dermosol	79	5.81

Sample site	Soil type	Chainage (km)	pH
310-03-AH3316	Eutrophic Mottled-Subnatric Brown Sodosol	80	6.55
310-03-AH3322	Hypocalcic Mottled-Mesonatric Brown Sodosol	82	7.26
310-03-AH3318	Supracalcic Mottled-Mesonatric Brown Sodosol	85	6.20
310-03-AH3292	Eutrophic Mottled-Subatric Brown Sodosol	88	6.47
310-03-AH3309	Magnesian Mottled-Hypernatric Brown Sodosol	91	5.25
310-03-AH3330	Eutrophic Mottled-Mesonatric Grey Sodosol	94	5.93
310-03-AH3333	Mottled-Sodic Hypocalcic Black Dermosol	95	6.73
310-03-AH3336	Episodic-Endocalcareous Epipedal Brown Vertosol	96	6.05
310-03-AH3341	Episodic-Endocalcareous Epipedal Black Vertosol	98	6.21
310-03-AH3348	Hypocalcic Mottled-Subnatric Grey Sodosol	102	6.32
310-03-AH3792	Episodic-Endocalcareous Massive Brown Vertosol	105	6.36
310-03-AH3362	Epicalcareous-Endohypersodic Crusty Black Vertosol	107	7.04
310-03-TP3103	Endocalcareous-Endohypersodic Crusty Black Vertosol	107	6.91
310-03-AH3373	Mottled-Sodic Calcic Black Dermosol	108	7.33
310-03-AH3793	Epicalcareous-Endohypersodic Epipedal Black Vertosol	109	7.34
310-03-AH3375	Epicalcareous-Endohypersodic Epipedal Black Vertosol	112	7.94
310-03-AH3383	Epicalcareous-Epihypersodic Crusty Black Vertosol	117	8.91
310-03-AH3393	Epicalcareous-Endohypersodic Epipedal Black Vertosol	119	8.25
310-03-AH3402	Epicalcareous-Endohypersodic Crusty Black Vertosol	121	7.40
310-03-AH3413	Epicalcareous-Endohypersodic Epipedal Grey Vertosol	126	8.04
310-03-AH3423	Endocalcareous Epipedal Black Vertosol	127	5.88
310-03-AH3426	Epihypersodic-Endocalcareous Crusty Black Vertosol	128	5.93
310-03-AH3434	Mottled-Sodic Hypocalcic Black Dermosol	130	5.86
310-03-AH3450	Mottled Epipedal Grey Vertosol	138	6.76
310-03-AH3460	Episodic Crusty Grey Vertosol	138	7.30
310-03-AH3477	Episodic-Endocalcareous Epipedal Black Vertosol	140	7.02
310-03-AH3493	Epicalcareous Self-mulching Black Vertosol	145	8.41
310-03-AH3498	Haplic Self-mulching Black Vertosol	145	8.32
310-03-AH3503	Epicalcareous Self-mulching Black Vertosol	147	7.51
310-03-AH3515	Epicalcareous Self-mulching Black Vertosol	151	7.06
310-03-AH3548	Epicalcareous Self-mulching Black Vertosol	161	8.13
310-03-AH3835	Epicalcareous Crusty Black Vertosol	163	8.23
310-03-AH3836	Epicalcareous Crusty Black Vertosol	163	7.93
310-03-AH3555	Haplic Eutrophic Black Dermosol	164	7.26
310-03-AH3565	Mottled Eutrophic Black Ferrosol	168	6.43
310-03-AH3571	Manganic Eutrophic Brown Dermosol	169	6.72
310-03-AH3575	Epicalcareous Self-mulching Black Vertosol	170	8.08
310-03-AH3578	Endocalcareous Self-mulching Black Vertosol	171	8.83
310-03-AH3581	Mottled Eutrophic Black Dermosol	172	7.06
310-03-AH3583	Endocalcareous Self-mulching Black Vertosol	172	6.72
310-03-AH3589	Endocalcareous Self-mulching Black Vertosol	173	6.69
310-03-AH3597	Mottled Eutrophic Brown Ferrosol	176	6.58

Sample site	Soil type	Chainage (km)	pH
310-03-AH3608	Sodic Eutrophic Red Ferrosol	178	5.49
310-03-AH3612	Endocalcareous-Mottled Self-mulching Brown Vertosol	179	6.27
310-03-AH3616	Epicalcareous Self-mulching Brown Vertosol	180	6.83
310-03-AH3619	Haplic Self-mulching Black Vertosol	181	6.23
310-03-AH3627	Mottled Eutrophic Brown Ferrosol	183	6.15
310-03-AH3628	Haplic Eutrophic Brown Ferrosol	184	6.67
310-03-AH3630	Haplic Eutrophic Red Dermosol	184	6.78
310-03-AH3634	Mottled Self-mulching Black Vertosol	185	6.99
310-03-AH3636	Haplic Self-mulching Black Vertosol	186	7.37
310-03-AH3639	Mottled Eutrophic Red Ferrosol	187	7.22
310-03-AH3644	Manganic Eutrophic Red Ferrosol	188	6.92
310-03-AH3640	Mottled Self-mulching Black Vertosol	188	7.11
310-03-AH3645	Haplic Eutrophic Black Dermosol	189	6.62
310-03-AH3662	Epicalcareous Self-mulching Black Vertosol	196	8.36
310-03-AH3661	Epicalcareous Self-mulching Black Vertosol	196	8.21
310-03-AH3672	Haplic Eutrophic Brown Ferrosol	198	7.45
310-03-AH3671	Epicalcareous Self-mulching Black Vertosol	199	8.11
310-03-AH3674	Epicalcareous Self-mulching Black Vertosol	200	8.36
310-03-AH3675	Mottled Self-mulching Black Vertosol	200	7.04
310-03-AH3690	Endocalcareous-Mottled Self-mulching Black Vertosol	204	7.01
310-03-AH3769	Epicalcareous-Endohypersodic Crusty Black Vertosol	Yelarbon Camp	8.69
310-03-AH3771	Sodic Hypocalcic Black Dermosol	Yelarbon Camp	7.4
310-03-AH3821	Eutrophic Mottled-Hypernatric Brown Sodosol	Turallin facility	6.11

The soils lowest in pH were recorded between Ch 49 km and Ch 64 km, with soil acidity levels being predominantly under pH 5 and the lowest recorded soil acidity at pH 3.97 (Ch 49 km). Other areas with acidic soils below soil pH 6 were recorded at Ch 6 km, Ch 30 km, Ch 33 km, Ch 39 km to Ch 46 km, Ch 65 km to Ch 79 km, Ch 91 km to Ch 94 km, Ch 127 km to Ch 130 km, and Ch 178 km.

4.6 Watercourses and waterbodies

4.6.1 Watercourses

Watercourses are defined under the Water Act as a river, creek or other stream which includes a stream in the form of an anabranch or a tributary where water flows either permanently or intermittently regardless of flow frequency. However, a watercourse does not include any section of a feature that has a tidal influence or is upstream or downstream from a defined limit between potential estuarine and fresh water (DNRME, 2014).

There are 18 defined watercourses within the impact assessment area that are listed below and shown on Figure 1.1. Where the watercourse is intersected by the Project footprint, the approximate chainage is given:

- Macintyre River – at Ch 30.6 km (NS2B)
- Macintyre Brook
- Canning Creek

- Pariagara Creek – at Ch 67.3 km
- Cattle Creek – at Ch 88.2 km
- Bringalily Creek – at Ch 100.6 km
- Nicol Creek – at Ch 104.4 km
- Back Creek unnamed tributary – at Ch 126.9 km
- Back Creek – Ch 128.0 km
- Grasstree Creek – at Ch 139.9 km
- Condamine River (Main Branch) – at Ch 144.2 km
- Condamine River (North Branch) – at Ch 149.9 km
- Umbiram Creek unnamed tributary – at Ch 184.8 km
- Half Mile Gully – Ch 190.0 km
- One Mile Gully – Ch 193.1 km
- Westbrook Creek – at Ch 198.5 km
- Dry Creek – at Ch 199.3 km
- Gowrie Creek.

Defined watercourses within the impact assessment area have been identified in reference to DRDMW's *Water identification map—watercourses—Queensland*, last published 2 April 2022 (DRDMW). One unmapped water feature was noted from the current impact area. The feature was an upstream reach of Pine Creek, a section of which occurred within the Turallin Facility footprint. Determination by DRDMW (in August 2023) confirmed this reach of Pine Creek as a drainage feature under the Water Act. Table 4.7 provides a summary of the watercourses crossed by the proposed Project footprint. Further details of the watercourses and water quality monitoring sites are presented in Appendix C.

Table 4.7 General summary of watercourses within the impact assessment area

Watercourse	Description
Macintyre River	The Macintyre River is the major river that begins in the Northern Tablelands between Glen Innes and Guyra. The river is 321 km long and is a tributary of the Barwon River. The proposed rail crossing location is situated between the confluence of the Dumaresq River and Macintyre River and Boggabilla. The Macintyre River was the only permanent waterway within the impact assessment area. There is a broad well vegetated riparian flood plain on both sides of the river. Impacts of human disturbance were high. There is an extensive riparian cover along both banks with an over story of <i>Eucalyptus sp.</i> and <i>Melaleuca sp.</i> The banks were 50 to 100 m wide and have a substantial cover of weedy species. The river bed includes gravel and sand beds with some mud banks and snags. The river level was low but flowing at the time of the survey and provides high value fish habitat. Emergent (<i>Phragmites australis</i>) macrophytes were present along the banks.

Watercourse	Description
	 Macintyre River
Macintyre Brook (Border Rivers basin)	The Macintyre Brook is a tributary off the Macintyre River that forms part of the Border Rivers catchment within the Murray-Darling basin. Macintyre Brook consisted of several ephemeral watercourses, some of which were dry at the time of field sampling events. When water was present, small standing pools were common along with larger deeper stream sections. The poorly defined, low, sloped banks were consistent with a low potential for erosion. Adjacent land consisted of native forest as well as cropping (grain fed cattle and irrigation). Therefore, a moderate to high level of disturbance exists, particularly in areas where irrigation and agricultural runoff occurs. A eucalypt riparian woodland vegetation community was observed along the overland flow drainage with evidence of floodplain clearing.  Macintyre Brook upstream of Project footprint

Watercourse	Description
Canning Creek	Canning Creek is a tributary of Macintyre Brook that forms part of the Border Rivers catchment within the Murray-Darling basin. Canning Creek consists out of several ephemeral streams. Pooled water was identified, providing limited fish passage, however in high flow, moderate fish passage would be facilitated. Surrounding land uses included moderate grazing and agriculture. Riparian vegetation was predominantly present as grasses and shrubs with some small trees.  Canning Creek downstream of Project footprint
Pariagara Creek	Pariagara Creek is an ephemeral tributary of Canning Creek close to its confluence with Macintyre Brook and is part of the Border Rivers catchment within the Murray-Darling basin. Several ephemeral tributaries and drainage features contribute to Pariagara Creek. The surrounding land use is predominantly grazing and agriculture near the project footprint. Further upstream, the Bringalily State Forest comprises most of its catchment.  Pariagara Creek downstream of Project footprint

Watercourse	Description
Cattle Creek	Cattle Creek is an ephemeral tributary of Canning Creek and is part of the Border Rivers catchment within the Murray-Darling basin. It is an ephemeral watercourse supplied by drainage features within the Bringally State Forest, which comprises 100 per cent of its catchment area.  Cattle Creek downstream of Project footprint
Bringalily Creek	Bringalily Creek is a semi- permanent tributary of Canning Creek and is part of the Border Rivers catchment within the Murray-Darling basin. Nicol Creek and Broola Creek are tributaries to Bringally Creek. Parts of the watercourse were dry during assessment. The adjacent landuse is predominantly agricultural and cattle grazing with sparse riparian vegetation.  Bringalily Creek downstream of Project footprint

Watercourse	Description
Nicol Creek	Nicol Creek is an ephemeral tributary of Bringalily Creek and is part of the Border Rivers catchment within the Murray-Darling basin. Nicol Creek has one unnamed tributary. The landuse is predominantly agricultural and cattle grazing, with sparse riparian vegetation.  Nicol Creek downstream of Project footprint
Back Creek	Back Creek is mapped as a drainage feature and is an ephemeral tributary of Bringalily Creek in the Border Rivers catchment within the Murray-Darling basin. Along its footprint are several artificially constructed dams. Adjacent landuse is predominantly grazing with good riparian vegetation.
Umbiram Creek	Umbiram Creek is a tributary of Hodgson Creek and is part of the Condamine River basin which is part of the Murray Darling basin. Typical land use surrounding Umbiram Creek includes agricultural land or grazing. There is no riparian vegetation, and scour and erosion are evident on stream banks.
Grasstree Creek (Border Rivers)	Grasstree Creek is a tributary off the Condamine River and is part of the Condamine River basin which is part of the Murray Darling basin. Typical land use surrounding the Westbrook Creek includes modified landscapes consisting of agricultural land used or grazing and non-remnant areas. This generally consisted of scattered non-remnant vegetation with sparse cover and often dominant exotic species. The riparian zone was particularly wide in some sections with a mix of native and exotic vegetation cover. Large trees such as eucalypts were often scattered, and the abundance of aquatic flora was variable. Areas which contained deeper channels and larger water bodies have the potential to support some aquatic flora and fauna species.

Watercourse	Description
	 Grasstree Creek upstream of the Project footprint
Condamine River (Condamine River basin)	The Condamine River is part of the Condamine River basin which is part of the Murray Darling basin. The Condamine River is approximately 500 km long. The Condamine River rises on the Darling Downs in the Queensland. The river flows north-west past Dalby and onward to Chinchilla. It then flows south-west to the plains, where it meets the Dogwood Creek and becomes the Balonne River, near Surat. The Condamine River basin includes several ephemeral watercourses, most of which were dry at the times of assessment, with the exception of Site 24, which had water present. The majority of streams exhibited poorly defined, low sloped banks which were assessed as moderately stable. Adjacent land was utilised for agricultural practices such as cattle grazing, which has resulted in some bank erosion. Further the river winds through the Great Diving Range. The riparian zone was particularly wide in some sections with a mix of native and exotic vegetation cover. Large trees such as eucalypts were often scattered, and the abundance of aquatic flora was variable. Areas which contained deeper channels and larger water bodies have the potential to support some aquatic flora and fauna species.  Condamine River

Watercourse	Description
Condamine River (North Branch) (Condamine River basin)	The Condamine River (North Branch) is a tributary of the main Condamine River. The Condamine River (North Branch) is approximately 50 km long and starts at Cecil Plains and re-joins the Condamine River 16 km south of Pittsworth. Condamine River (North Branch) consisted of several ephemeral watercourses, some of which were dry at the time of field sampling events (Sites 29, 31 and 32). Some small pools of water appear sustained throughout the dry periods (Site 30), while others varied with season (Site 27 and 33). There was very little water in the channel, with water generally present in small pools with infrequent deeper stands. Poorly-defined, low-sloped banks were present with moderate stability. Small areas of severe erosion were present, particularly adjacent to agricultural cropping activities. Typical land use surrounding the Condamine River (North Branch) predominantly consisted of grazing, irrigated cropping and non-remnant areas. Riparian zones consisted of Eucalypt woodlands, which were scattered and were sparse along some sections of the Condamine River. Native vegetation was dominant (with exotics were also readily found), and aquatic flora was particularly abundant and diverse.  Condamine River (North Branch) downstream of the Project footprint
Westbrook Creek (Condamine River basin)	Westbrook Creek is located in South East Queensland and the catchment covers an area of 24,043 ha. The Westbrook Creek is approximately 6 km in length. The area is relatively flat with some undulating hills. Westbrook Creek is a tributary off Oakey Creek which starts north of Oakey and finishes south of Westbrook. There are several tributaries that come off the Westbrook Creek including Gowrie Creek, Dry Creek, Spring Creek and Half Mile Gully. Typical land use surrounding the Westbrook Creek varies between modified landscapes consisting of agricultural land or grazing and non-remnant areas. This generally consisted of scattered non-remnant vegetation with sparse cover and often dominant exotic species. The riparian zone has been severely reduced in some parts of Oakey Creek and Westbrook Creek.

Watercourse	Description
	 Westbrook Creek downstream of the Project footprint
Half Mile Gully	Half Mile Gully is an ephemeral tributary of Westbrook Creek in the Condamine River basin. Some small pools were sustained throughout drier periods. During wet periods, large deep stream channels would be common. Stream bank slopes ranged from low to moderate, with a high potential for erosion during flood events. Riparian vegetation is not present.
One Mile Gully	One Mile Gully is an ephemeral tributary of Westbrook Creek in the Condamine River basin. Some small pools were sustained throughout drier periods. During wet periods, large deep stream channels would be common. Stream banks present scour and erosion patterns. Riparian vegetation is not present.
Dry Creek (Condamine River basin)	Dry Creek is a tributary off the Westbrook Creek in the Condamine River basin. Dry Creek comprised primarily of ephemeral watercourses. Some small pools were sustained throughout drier periods. During wet periods, large deep stream channels would be common. Stream bank slopes ranged from low to moderate, with a high potential for erosion during flood events. Typical land use surrounding Dry Creek varied between modified landscapes consisting of agricultural land used or grazing and non-remnant areas. This generally consisted of scattered non-remnant vegetation with sparse cover and often dominant exotic species. The riparian zone has been severely reduced and was dominated by exotic species.

Watercourse	Description
	 Dry Creek upstream of the Project footprint
Gowrie Creek	The origin of Gowrie Creek lies in the Township of Toowoomba. Adjacent land use varies between residential, industrial, agricultural areas as the stream progresses from the Toowoomba Ranges down to its confluence with Westbrook Creek in the Condamine River basin. Riparian vegetation is very sparse along agricultural settings and densely vegetated patches in the Township of Toowoomba. Closer to the project footprint, the watercourse is ephemeral and riparian vegetation is sparse.  Gowrie Creek downstream of Project footprint

4.6.2 Waterways for waterway barrier works mapping

Waterways are defined under the Fisheries Act and include a river, creek, stream, watercourse or inlet of the sea. The definition includes freshwater and tidal waters, both permanent and ephemeral waterways, and includes drainage features. It also includes channels along which fish are expected to move if they connect isolated water bodies to defined waterways during times of flow; however, it does not include isolated waterbodies where no connectivity is available.

Under the Fisheries Act, waterways can be classed as one of five different colours that represent waterway barrier works impact on fish passage. The levels of risk are as follows:

- Purple – major impact
- Red – high impact
- Amber – moderate impact
- Green – low impact
- Grey – tidal waterways, major impact.

The revised reference design includes full-width crossings of 19 major waterways (stream order ≥ 3) and 81 minor waterways (stream order < 3).

Waterways for waterway barrier works are regulated under the Fisheries Act and the Planning Act when barriers to fish movement including partial barriers are installed across waterways. Barrier works include construction, raising, replacement and some maintenance works on structures such as culverts, crossings, bed level and low-level crossings, weirs and dams, both permanent and temporary. Further barrier works applicable to the project include temporary crossings as well as works that interfere with waterway banks and beds. In addition to affecting connectivity for aquatic fauna, water quality risk to species is considered with waterway barrier works due to the potential impact it may have on water passage.

A review of the DAF *Queensland waterways for waterway barrier works* (2023) mapping was undertaken, identifying a total of 100 waterways for waterway barrier works intersections with the Project footprint.

Table 4.8 identifies the locations where the Project footprint crosses waterways for waterway barrier works, including the relevant waterway impact risk. The level of risk relating to each waterway will be considered for the design of infrastructure such as culverts, bridges and other potential barriers during the detailed design stage. At this stage of Project design, access roads are considered to be proximal to currently identified waterways intersecting the footprint. Designs will need to be in accordance with the factsheet *What is not a waterway barrier work?* (DAF, 2017), or *Accepted development requirements for operational work that is constructing or raising waterway barrier works* (DAF, 2018), or under a relevant development approval.

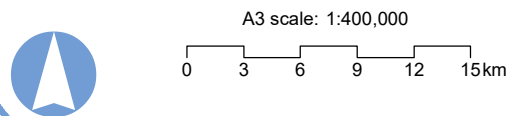
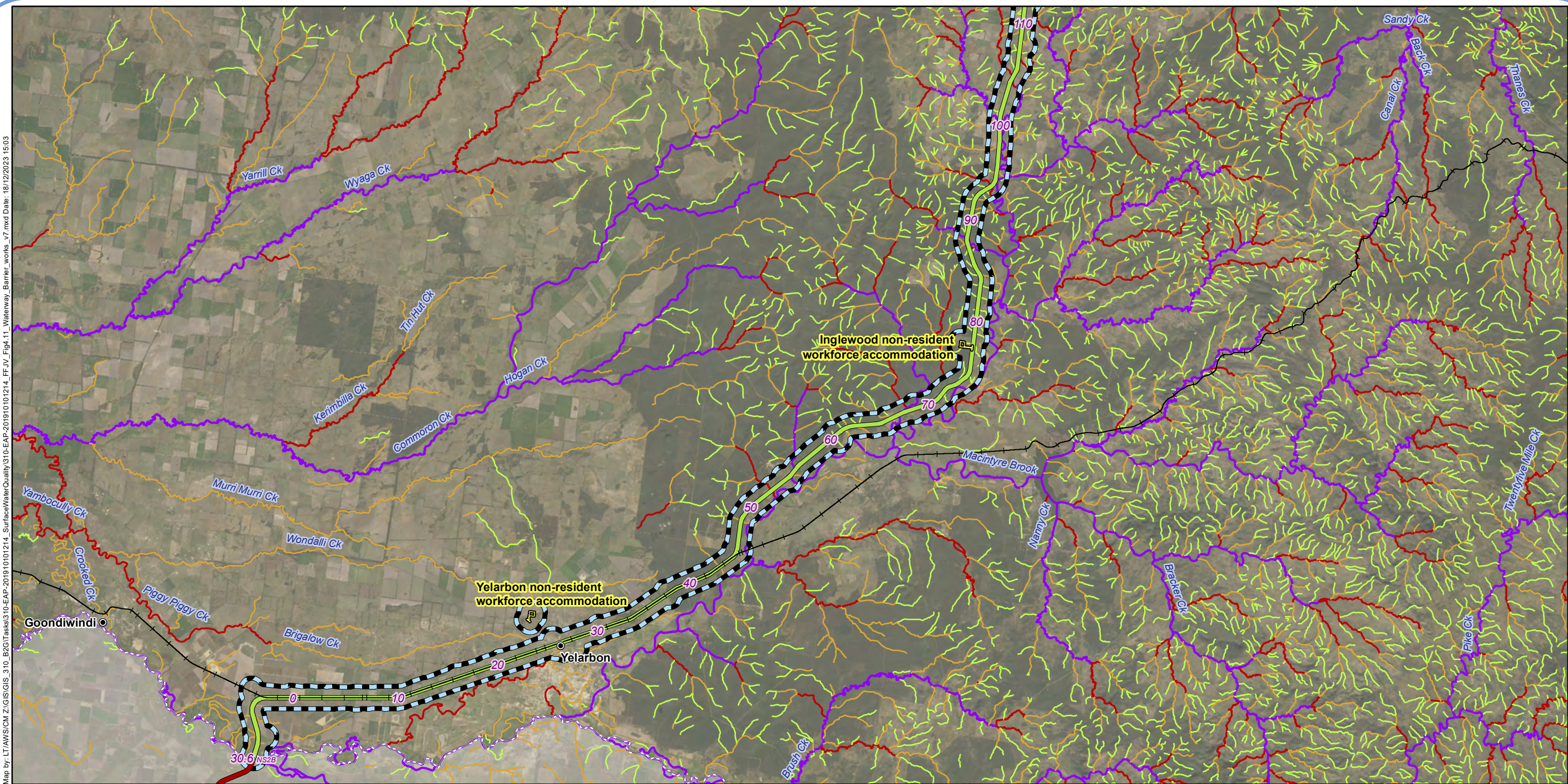
The Project footprint intersects waterways at 100 locations derived from DAF mapped waterways as follows:

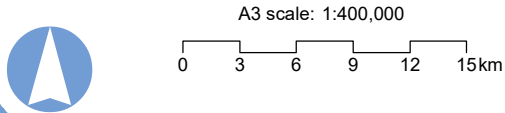
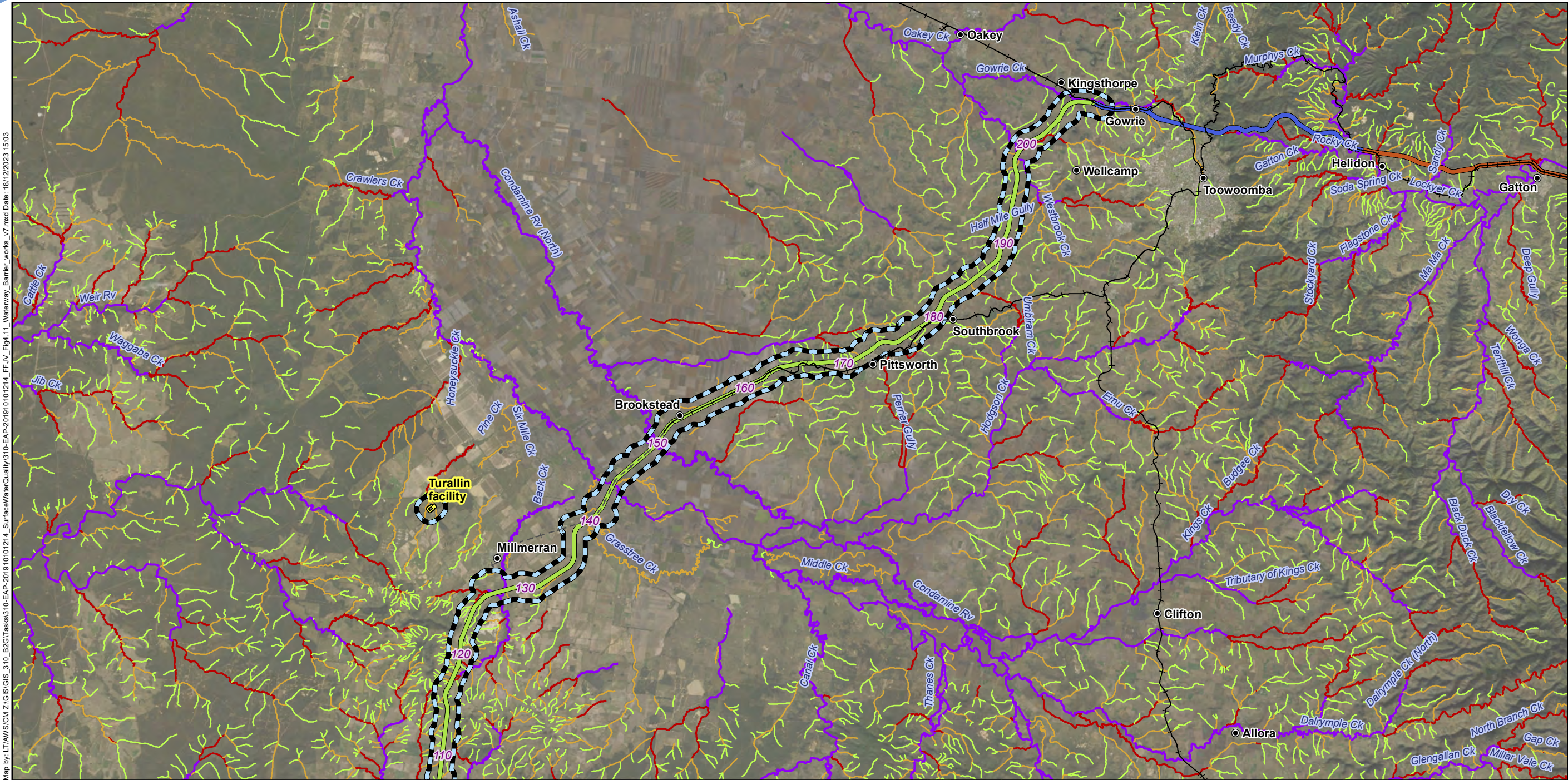
- The footprint intersects waterways mapped as green at 66 locations (low-risk of impact)
- The footprint intersects waterways mapped as amber at 15 locations (moderate risk of impact)
- The footprint intersects waterways mapped as red at 9 locations (high-risk of impact)
- The footprint intersects waterways mapped as purple at 10 locations (major risk of impact)

Table 4.8 Waterways for waterway barrier works that intercept the Project disturbance footprint

Waterway impact risk (DAF)	Waterway and approximate chainage of intersection (km)
Purple	■ Un-named tributary of Macintyre Brook (Ch 55.6 km) ■ Pariagara Creek (Ch 67.3 km) ■ Unnamed tributary of Pariagara Creek (Ch 67.3 km) ■ Bringalily Creek (Ch 100.6 km) ■ Nicol Creek (Ch 104.4 km) ■ Back Creek (Ch 128.0 km) ■ Grasstree Creek (Ch 139.9 km) ■ Condamine River (Ch 144.2 km) ■ Condamine River (North Branch) (Ch 150.0 km) ■ Westbrook Creek drainage feature (Ch 198.5 km)

Waterway impact risk (DAF)	Waterway and approximate chainage of intersection (km)
Red	■ Un-named tributary of Macintyre Brook (Ch 52.6 km) ■ Cattle Creek (Ch 88.2 km) ■ Native Dog Creek (Ch 93.9 km) ■ Back Creek (Ch 97.6 km) ■ Unnamed tributary of Back Creek (Ch 120.3 km), ■ Unnamed tributary of Back Creek (Ch 127.0 km), ■ One Mile Gully (tributary of Westbrook Creek) (Ch 193.1 km, ■ Four Mile Gully (tributary of Westbrook Creek) (Ch 197.4 km) ■ Dry Creek drainage feature (Ch 199. km)
Amber	■ Un-named tributary of Macintyre Brook (Ch 48.4 km, Ch 60.5 km, Ch 61.9 km, Ch 63.1 km) ■ Unnamed tributary of Pariagara Creek (Ch 66.2 km) ■ Unnamed tributary of Canning Creek (Ch 91.0 km) ■ Unnamed tributary of Nicol Creek (Ch 109.4 km, Ch 114.4 km) ■ Un-named tributary of Grasstree Creek (Ch 141.0 km) ■ Unnamed drainage feature (Ch 160.0 km) ■ Unnamed tributary of Umbiram Creek (Ch 184.9 km, Ch 187.2 km) ■ Half Mile Creek (Ch 190.0 km) ■ Unnamed tributary of Westbrook Creek (Ch 194.7 km) ■ Unnamed tributary of Pine Creek near Turallin Facility
Green	■ Unnamed tributary of Macintyre Brook (Ch 43.2 km (Also crosses Whetstone Material Distribution Centre), Ch 58.2 km, Ch 59.0 km, Ch 59.6 km, Ch 61.6 km, Ch 62.9 km, Ch 63.9 km) ■ Unnamed tributary of Pariagara Creek (Ch 64.7 km, Ch 66.8 km, Ch 67.55, Ch 67.56 km, Ch 68.0 km, Ch 68.7 km) ■ Unnamed tributary of Canning Creek (Ch 73.7 km, Ch 78.9 km, Ch 80.0 km, Ch 81.1 km, Ch 82.3 km, Ch 84.4 km, Ch 85.4 km) ■ Unnamed tributary of Cattle Creek (Ch 87.4 km) ■ Unnamed tributary of Canning Creek (Ch 92.1 km, Ch 92.9 km) ■ Unnamed tributary of Nicol Creek (Ch 107.2 km, Ch 108.5 km Ch 110.9 km, Ch 111.3 km, Ch 111.9 km) ■ Unnamed drainage feature (Ch 112.3 km, Ch 113.0 km) ■ Unnamed tributary of Nicol Creek (Ch 113.3 km, Ch 114.9 km, Ch 115.5 km, Ch 115.6 km, Ch 116.2 km) ■ Unnamed tributary of Leonard (Back Creek) Gully (Ch 117.4 km) ■ Back Creek (Ch 117.6 km) ■ Unnamed tributary of Back Creek) (Ch 118.4 km, Ch 119.4 km, Ch 120.8 km, Ch 121.4 km, Ch 124.3 km, Ch 124.4 km, Ch 125.5 km) ■ Unnamed drainage feature (Ch 130.2 km) ■ Unnamed drainage feature (Ch 162.2 km, Ch 162.8 km) ■ Unnamed tributary of Fourteen Mile Creek (Ch 164.2 km, Ch 164.4km) , Ch 165.1 km, Ch 168.6 km, Ch 169.9 km, Ch 170.6 km, Ch 171.9 km, Ch 172.2 km, Ch 173.6 km) ■ Unnamed tributary of Perrier Gully (Ch 176.9 km, Ch 177.7 km, Ch 178.7 km) ■ Unnamed tributary of Umbiram Creek (Ch 181.1 km, Ch 181.8 km, Ch 182.9 km) ■ Umbiram Creek (Ch 186.2 km) ■ Unnamed tributary of One Mile Gully (Ch 191.9 km) ■ Unnamed tributary of Four Mile Gully (Ch 197.9 km) ■ Unnamed tributary of Dry Creek (Ch 202.8 km).





4.6.3 Stream order

A stream order spatial assessment was conducted in order to identify intersections with watercourses not yet defined under the Water Act.

Queensland uses the stream ordering system adopted from Strahler (1952) in which waterways are given an 'order' according to the number of additional tributaries are associated with each waterway. This system is used to provide an indication on waterway complexity and therefore the potential aquatic habitat present. Headwaters or 'new' flow paths are given a stream order of one (or 'first order'), where two first order flow paths converge, the new stream is referred to as a second order stream. Where two second order streams join, a third order stream is formed. Third order streams and above are considered likely to reflect valuable fish habitat, capable of supporting viable population.

The stream order of intersecting waterways was used to further inform the existing environment and potential impacts to maintain the conservation approach to identifying water quality receptor sensitivity throughout the assessment. The stream orders for watercourses intersected by the Project impact assessment area are outlined in Table 4.9.

Table 4.9 Stream orders present within the impact assessment area

Stream order (DRDMW)	Waterway (approximate chainage in km)
9	Macintyre River (NS2B)
6	Condamine River (Ch 144.2 km)
5	- Bringalily Creek (Ch 100.5 km) - Un-named tributary of Leonard (Black Creek) Gully (Ch 128.0 km)
4	- Un-named tributary of Macintyre Brook (Ch 55.5 km) - Pariagara Creek (Ch 67.3 km) - Cattle Creek (Ch 88.3 km) - Back Creek drainage feature (Ch 127.1 km) - Condamine River (North Branch) (Ch 150.0 km) - Westbrook Creek (Ch 198.5 km)
3	- Un-named tributary of Macintyre Brook (Ch 52.6 km) - Un-named tributary of Canning Creek (Ch 87.4 km) - Native Dog Creek (Ch 93.9 km) - Nicol Creek (Ch 104.5 km) - Un-named tributary of Leonard (Black Creek) Gully (Ch 117.4 km) - Un-named tributary of Leonard (Black Creek) Gully (Ch 119.5 km) - Dry Creek drainage feature (Ch 199.2 km)
2	- Un-named tributary of Macintyre Brook (Ch 43.2 km, Ch 48.4 km) - Un-named tributary of Canning Creek (Ch 61.9 km, Ch 66.2 km) - Un-named tributary of Canning Creek (Ch 91.0 km, Ch 92.0 km) - Un-named tributary of Canning Creek (Ch 95.4 km) - Back Creek (Ch 97.6 km) - Un-named tributary of Canning Creek (Ch 107.2 km) - Un-named tributary of Canning Creek (Ch 109.5 km) - Un-named tributary of Canning Creek (Ch 114.4 km) - Un-named tributary of Leonard (Black Creek) Gully (Ch 117.6 km, Ch 117.8 km, Ch 118.5 km) - Un-named tributary of Leonard (Black Creek) Gully (Ch 120.4 km) - Un-named tributary of Leonard (Black Creek) Gully (Ch 124.5 km) - Grasstree Creek (Ch 139.9 km) - Un-named tributary of Umbiram Creek (Ch 184.9 km) - Half Mile Creek drainage feature (Ch 190.0 km) - One Mile Creek drainage feature (Ch 193.1 km, Ch 194.7 km) - Un-named tributary of Westbrook Creek (Ch 197.3 km) - Pine Creek - Turallin facility (Lot 135DY1033) – proximal to Turallin

Stream order (DRDMW)	Waterway (approximate chainage in km)
1	■ Un-named tributary of Macintyre Brook (Ch 32.6 km, Ch 34.7 km, Ch 60.4 km, Ch 61.5 km, Ch 62.8 km, Ch 63.1 km) ■ Un-named tributary of Canning Creek (Ch 73.7 km, Ch 77.7 km, Ch 78.9 km, Ch 80.6 km, Ch 81.1 km, Ch 82.3 km, Ch 83.5 km, Ch 84.4 km, Ch 85.3 km, Ch 86.6 km) ■ Un-named tributary of Canning Creek (Ch 88.5 km) ■ Un-named tributary of Canning Creek (Ch 93.4 km) ■ Un-named tributary of Canning Creek (Ch 96.2 km, Ch 96.4 km) ■ Un-named tributary of Canning Creek (Ch 108.5 km) ■ Un-named tributary of Canning Creek (Ch 110.9 km, Ch 113.1 km) ■ Un-named tributary of Canning Creek (Ch 114.9 km, Ch 115.6 km, Ch 115.6 km) ■ Un-named tributary of Leonard (Black Creek) Gully (Ch 119.0 km) ■ Un-named tributary of Leonard (Black Creek) Gully (Ch 120.8 km, Ch 121.1 km, Ch 121.5 km, Ch 123.4 km, Ch 124.0 km) ■ Un-named tributary of Leonard (Black Creek) Gully (Ch 125.5 km) ■ Un-named tributary of Grasstree Creek (Ch 130.2 km) ■ Un-named tributary of Grasstree Creek (Ch 141.0 km) ■ Un-named tributary of Condamine River (North Branch) (Ch 169.9 km, Ch 170.6 km, Ch 171.0 km, Ch 171.9 km, Ch 172.2 km) ■ Un-named tributary of Umbiram Creek (Ch 183.00 km) ■ Un-named tributary of Umbiram Creek (Ch 186.2 km, Ch 187.2 km) ■ Un-named tributary of Westbrook Creek (Ch 192.0 km) ■ Un-named tributary of Westbrook Creek (Ch 197.0 km) ■ Un-named tributary of Dry Creek (Ch 202.8 km) ■ Un-named tributary off Gowrie Creek (Ch 206.2 km, Ch 207.2 km)

4.6.4 Artificial/constructed waterbodies

Dams and weirs are constructed barriers that hold back water to provide a reservoir for water supply. Various dams and weirs are located in the vicinity of the Project and are listed in Section 1.4.5.3. These dams have, subject to climatic conditions, the ability to supply the required volume for construction water for the Project. However, the transportation cost of sourcing all construction water from these locations is prohibitive. Therefore, other sources will need to be accessed to meet the full construction water demand for the Project.

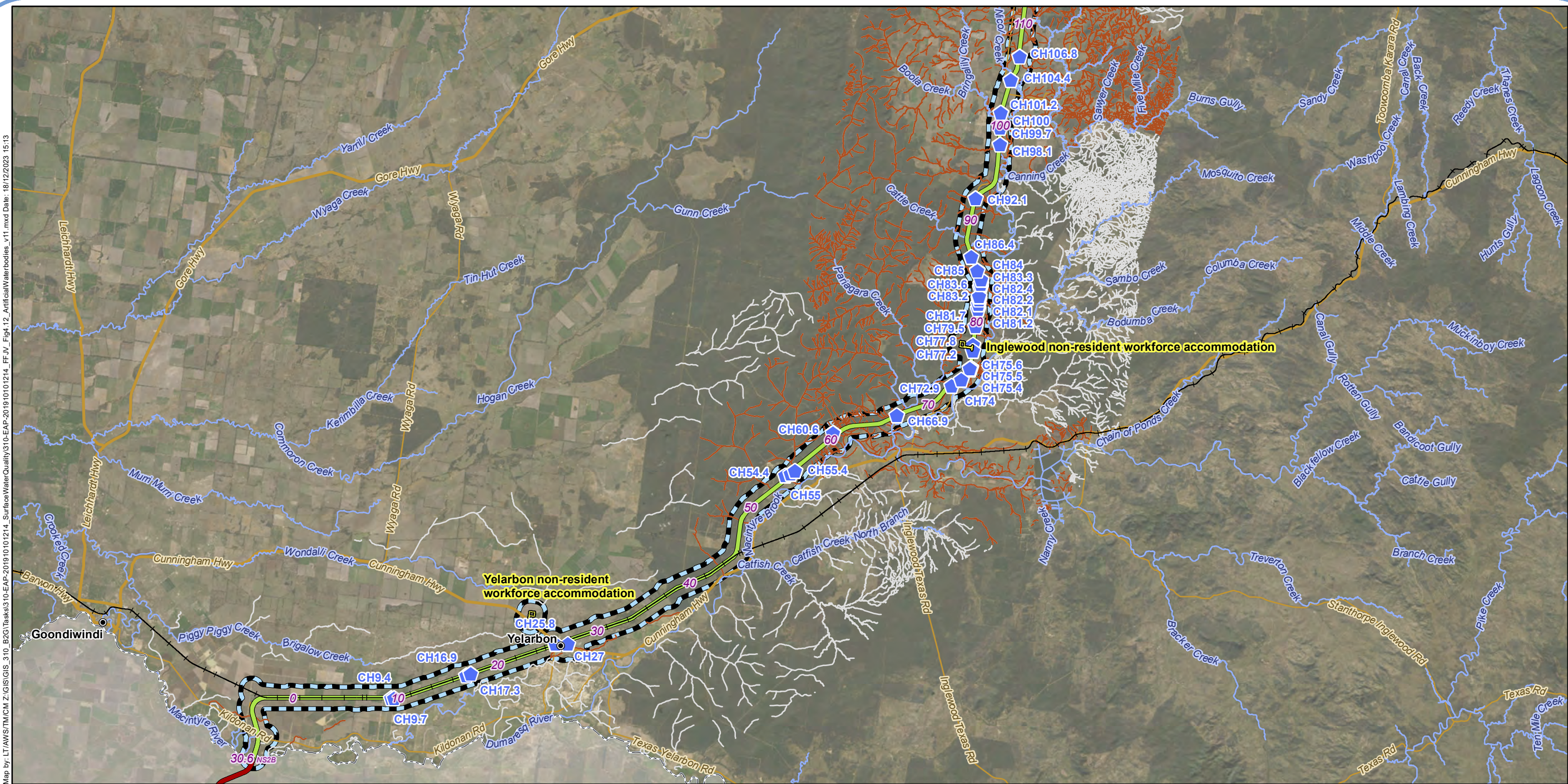
In addition to the naturally occurring water sources listed in Section 4.2, there are several artificial/constructed waterbodies located within the impact assessment area and that are intersected by the Project footprint. These artificial/constructed waterbodies are predominantly rural farm dams used for agricultural purposes and typically occur along unnamed drainage watercourses. Table 4.10 identifies artificial waterbodies which intersect the Project footprint. More details including mapping are included in Appendix F.

Table 4.10 Artificial waterbodies intersected by the Project footprint

Artificial waterbody (approximate chainage in km)	Associated waterway
Ch 9.70	Named drainage feature of Dumaresq River
Ch 16.85	Named drainage feature of Dumaresq River
Ch 17.30	Named drainage feature of Dumaresq River
Ch 21.05	Named drainage feature of Dumaresq River
Ch 25.85	Named drainage feature of Dumaresq River
Ch 54.4	Un-named drainage feature of Macintyre Brook
Ch 54.80	Un-named drainage feature of Macintyre Brook

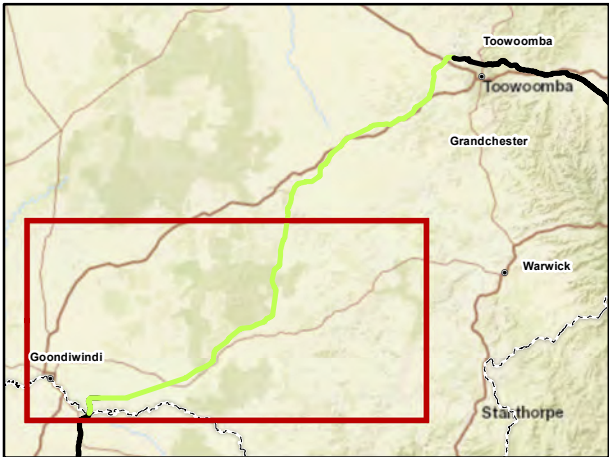
Artificial waterbody (approximate chainage in km)	Associated waterway
Ch 55.50	Un-named drainage feature of Macintyre Brook
Ch 60.60	Un-named drainage feature of Macintyre Brook
Ch 66.85	Pariagara Creek
Ch 72.90	Un-named drainage feature of Canning Creek
Ch 74.05	Un-named drainage feature of Canning Creek
Ch 75.45	Un-named drainage feature of Canning Creek
Ch 75.60	Un-named drainage feature of Canning Creek
Ch 76.45	Un-named drainage feature of Canning Creek
Ch 77.20	Un-named drainage feature of Canning Creek
Ch 77.80	Un-named drainage feature of Canning Creek
Ch 79.50	Un-named drainage feature of Canning Creek
Ch 81.20	Un-named drainage feature of Canning Creek
Ch 81.65	Un-named drainage feature of Canning Creek
Ch 82.20	Un-named drainage feature of Canning Creek
Ch 82.40	Un-named drainage feature of Canning Creek
Ch 83.20	Un-named drainage feature of Canning Creek
Ch 83.60	Un-named drainage feature of Canning Creek
Ch 84.00	Un-named drainage feature of Canning Creek
Ch 85.00	Un-named drainage feature of Canning Creek
Ch 86.40	Un-named drainage feature of Canning Creek
Ch 88.20	Cattle Creek
Ch 92.10	Native Dog Creek
Ch 98.20	Back Creek
Ch 99.80	Named drainage feature of Canning Creek
Ch 100.00	Named drainage feature of Canning Creek
Ch 101.20	Bringalily Creek
Ch 104.40	Nicol Creek
Ch 106.80	Named drainage feature of Canning Creek
Ch 117.40	Back Creek
Ch 121.40	Back Creek
Ch 123.30	Back Creek
Ch 124.00	Un-named drainage feature of Back Creek
Ch 126.80	Back Creek drainage feature
Ch 133.50	Un-named drainage feature of Grasstree Creek
Ch 135.40	Un-named drainage feature of Grasstree Creek
Ch 135.60	Un-named drainage feature of Grasstree Creek
Ch 139.70	Un-named drainage feature of Grasstree Creek
Ch 141.0	Un-named tributary to Grasstree Creek
Ch 160.40	Un-named drainage feature of Condamine River (North Branch)
Ch 163.20	Un-named drainage feature of Condamine River (North Branch)
Ch 168.90	Named drainage feature of Condamine River (North Branch)

Artificial waterbody (approximate chainage in km)	Associated waterway
Ch 169.90	Named drainage feature of Condamine River (North Branch)
Ch 170.90	Named drainage feature of Condamine River (North Branch)
Ch 174.10	Named drainage feature of Condamine River (North Branch)
Ch 174.30	Un-named drainage feature of Spring Creek
Ch 175.90	Un-named drainage feature of Spring Creek
Ch 177.20	Un-named drainage feature of Spring Creek
Ch 179.40	Un-named drainage feature of Spring Creek
Ch 180.60	Un-named drainage feature of Umbiram Creek
Ch 183.30	Un-named drainage feature of Umbiram Creek
Ch 188.60	Un-named drainage feature of Westbrook Creek
Ch 188.80	Un-named drainage feature of Westbrook Creek
Ch 193.70	Un-named drainage feature of Westbrook Creek
Ch 195.00	Un-named drainage feature of Westbrook Creek

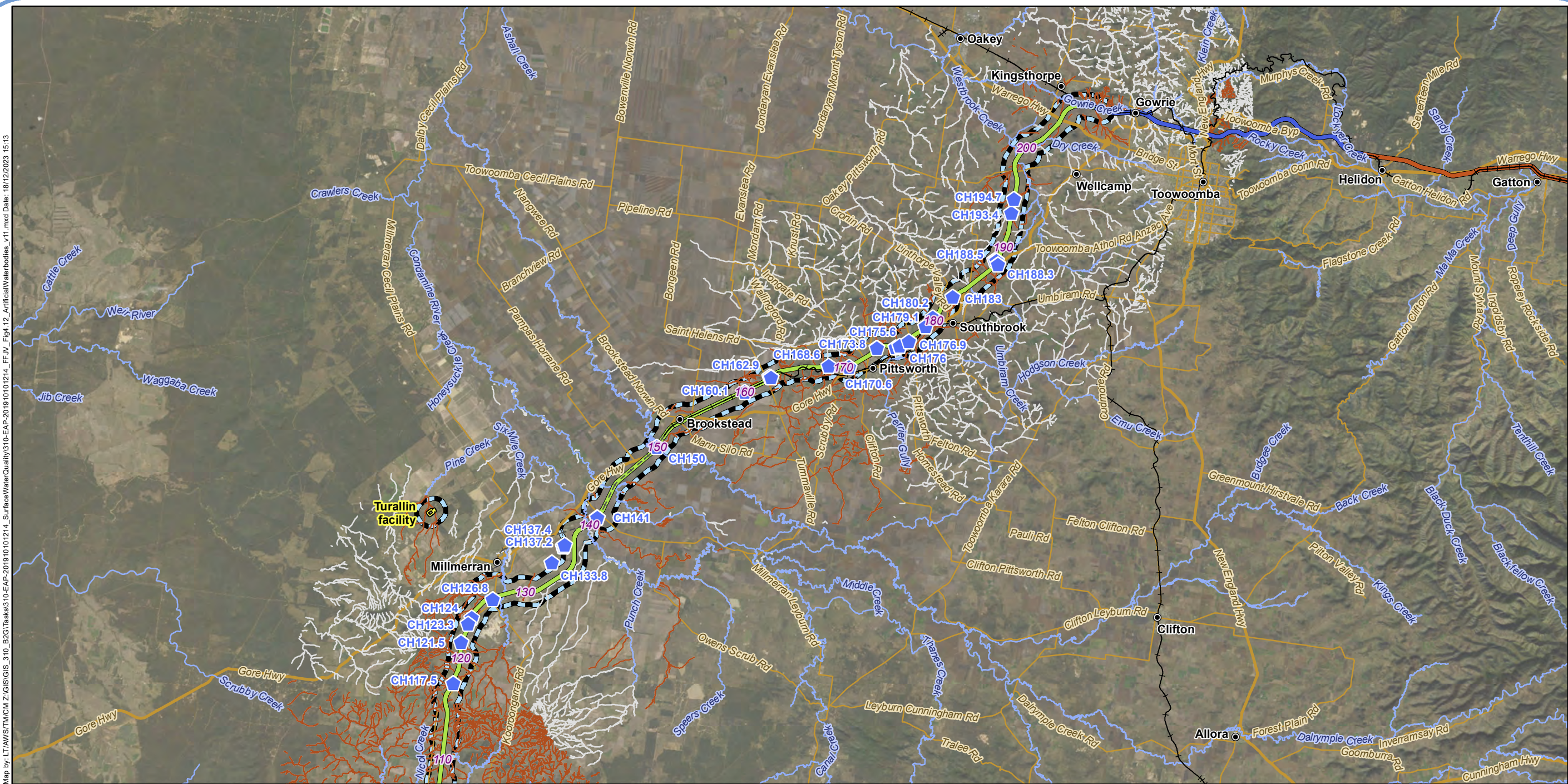


Legend

- 5 Chainage (km)
- Localities
- Artificial waterbodies (location)
- North Star to NSW/QLD border alignment
- Border to Gowrie alignment
- Existing rail (operational)
- Major roads
- Minor roads
- Defined watercourses
- Drainage Features
- Unmapped watercourses (Water Act 2000)
- NSW/QLD border
- Construction facilities
- Surface water impact assessment area

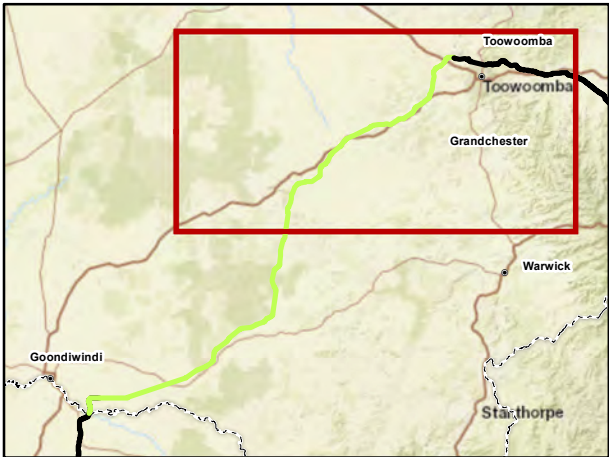


A3 scale: 1:400,000
0 3 6 9 12 15 km



Legend

- | | |
|-----------------------------------|--|
| 5 Chainage (km) | Defined watercourses |
| Localities | Drainage Features |
| Artificial waterbodies (location) | Unmapped watercourses (Water Act 2000) |
| Border to Gowrie alignment | Construction facilities |
| Gowrie to Helidon alignment | Surface water impact assessment area |
| Helidon to Calvert alignment | |
| Existing rail (operational) | |
| Existing rail (non-operational) | |
| Major roads | |
| Minor roads | |



A3 scale: 1:400,000
0 3 6 9 12 15 km



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Border to Gowrie

Figure 4.12b:
Artificial / constructed waterbodies

4.7 Aquatic ecosystem values

A summary of the aquatic ecosystem values at each monitoring site is provided in the EIS Appendix L: Terrestrial and Aquatic Ecology Technical Report, including a description of the physical environment, aquatic habitat, flora and fauna at the site and existing local impacts.

The impact assessment area includes the following aquatic habitats, as defined by Environmental Protection Agency (2005):

- Riverine wetlands– Wetlands contained within channel that are not dominated by trees, shrubs, persistent emergent and emergent mosses or lichens
- Palustrine – Wetlands dominated by trees, shrubs, persistent emergent and emergent mosses or lichens
- Lacustrine – Wetlands contained within a topographic depression or dammed river channel, lacking trees, shrubs, persistent emergent and emergent mosses or lichens and covering more than 8 ha.

Whilst some of these aquatic habitats contained no surface water at the time of assessment they do provide habitat value for several aquatic species that are likely to occur in the landscape. Habitats with permanent water are likely to support the most diverse and abundant aquatic communities, however areas with seasonal water provide periodically available habitat and act as pathways for fauna.

Aquatic ecosystem values were identified to confirm the habitat values aligned with predictive habitat mapping of MNES species, Murray cod (*Maccullochella peelii*), matters of State environmental significance (MSES) species, Fringing rush (*Fimbristylis vagans*), and Agassiz's glassfish (*Ambassis agassizii*) and MSES wetlands within the impact assessment area.

Waterways to be intersected by the Project footprint are mostly ephemeral and were assessed to be in fair condition overall. Other land uses in the region, particularly agriculture, are likely to have resulted in some degradation of surface water quality and aquatic ecology values in local waterways.

4.8 AquaBAMM aquatic conservation assessment

The aquatic conservation assessment using Aquatic Biodiversity Assessment Mapping Method (AquaBAMM) assesses the conservation and ecological value of wetland systems based on a series of national and international criteria, including naturalness (aquatic and catchment), diversity and richness, threatened species/ecosystems, priority species/ecosystems, special features, connectivity and representativeness (DEHP, 2015).

The aquatic conservation assessment (AquaBAMM) provides an overall conservation value (Aquascore), ranging from very low to very high, for each spatial unit (e.g. wetland), which is based on eight separate criteria. Each criterion value is formed through a mathematical combination of measures and indicators. This scoring was used to provide a verification of management intentions for aquatic environments within the Project footprint, specifically in relation to surface water features that intersected the impact assessment area.

The results of an Aquascore riverine assessment against each water quality monitoring site are presented in Table 4.11. The majority of water quality monitoring sites scored at a moderate or above indicating a moderate environmental condition.

Table 4.11 AquaBAMM score for all water quality monitoring sites

Aquascore	Monitoring site
Very Low	-
Low	16, 27
Medium	18, 20R, 23, 24, 32, 33, 39, 40, 42
High	14
Very High	2, 2R, 3, 6, 7, 11, 29, 30

Source: Queensland Government (2020)

4.9 Sensitive environmental areas

This section provides a summary of sensitive environmental areas that occur within the impact assessment area. These sensitive environmental areas are wetland areas, identified fish habitat and groundwater-dependent areas within receiving waters. Additionally, the endangered aquatic ecological community – Lowland Darling River aquatic ecological community is known to occur from the New South Wales Border Rivers basin (Department of Primary Industries, 2007). This basin includes the Macintyre River, which is recognised as a high sensitivity receptor due to the presence of the Lowland Darling River Aquatic Ecological Community. While not addressed within this water quality assessment (due to jurisdictional boundaries), it is considered that the healthy waterways plans of the Queensland Border Rivers and Condamine River basin will capture protective measures under *Water Act 2017* (Cth) – Basin Plan accreditation.

4.9.1 Wetlands

There are no wetlands of International Importance (Ramsar wetlands) within, or within 10 km of the impact assessment area.

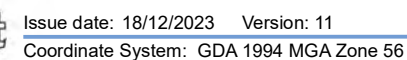
The *Map of Queensland wetland environmental values* (DES, 2020c) identify multiple palustrine (non-riverine) wetlands along the Project footprint, which are recognised as High Ecological Significance (HES) as recognised under the EPP (Water and Wetland Biodiversity). These wetlands are also recognised as MSES under State legislation. The HES wetlands within the impact assessment area are associated with Bringallily Creek, Canning Creek and the Condamine River and were classified as high sensitivity water quality receptors (Section 4.12). Potential impacts and mitigation measures for wetlands and other receptors are described in Sections 6 and 7. The HES wetlands are considered an MSES under the Planning Act. Further assessment of wetland values identified as MSES is provided in EIS Appendix L: Terrestrial and Aquatic Ecology Technical Report.

Ecologically significant wetlands in proximity to the impact assessment area are shown on Figure 4.13.



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A horizontal number line representing distance in kilometers. It has tick marks at 0, 1.5, 3, 4.5, 6, and 7.5 km. The line is divided into segments of 1.5 km each.

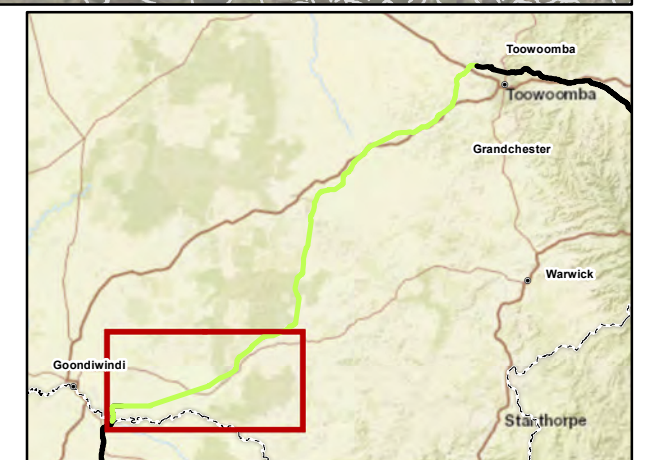


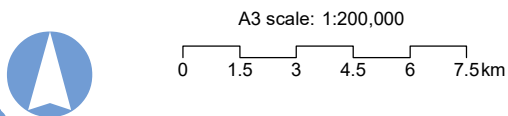
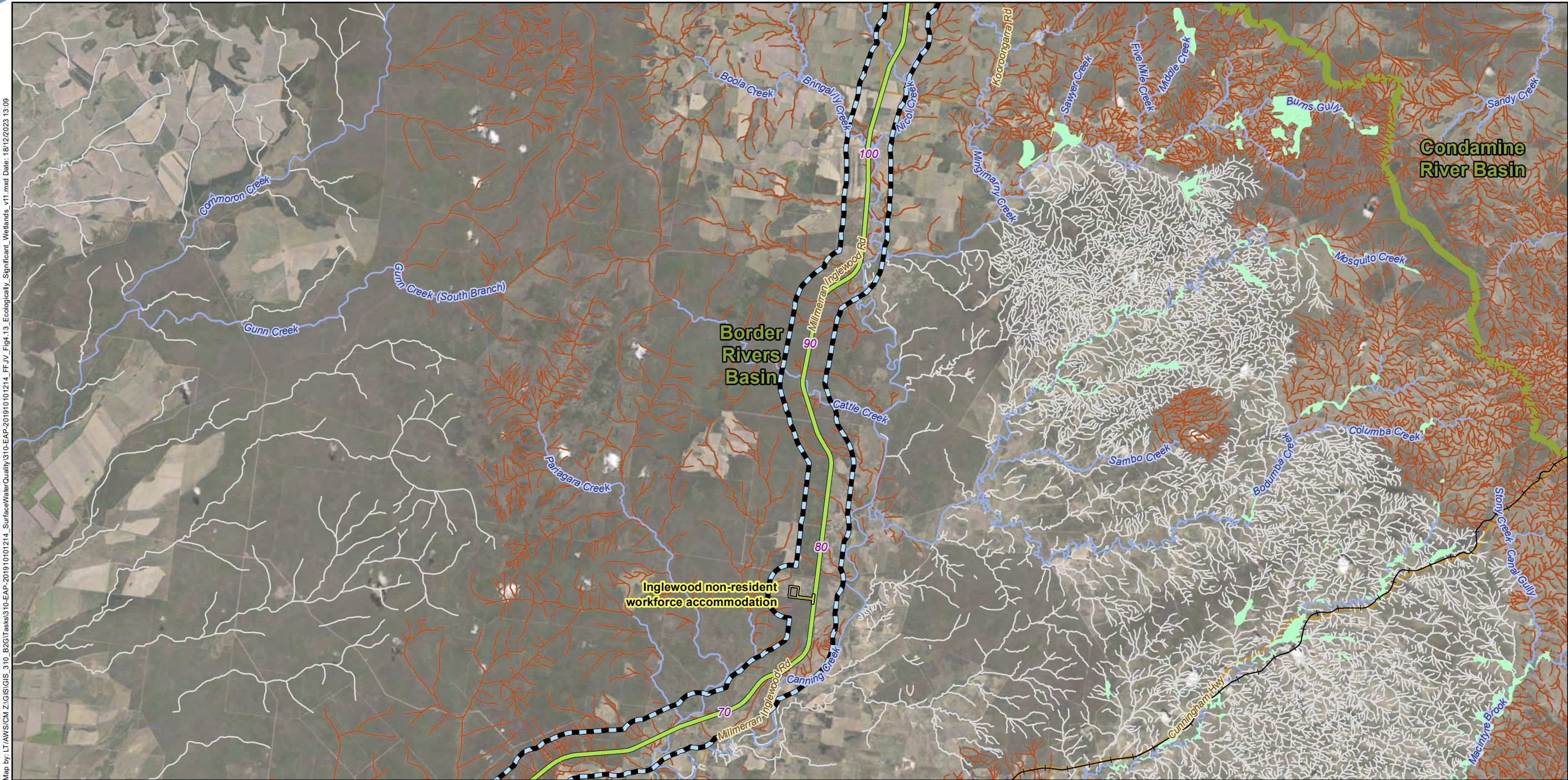
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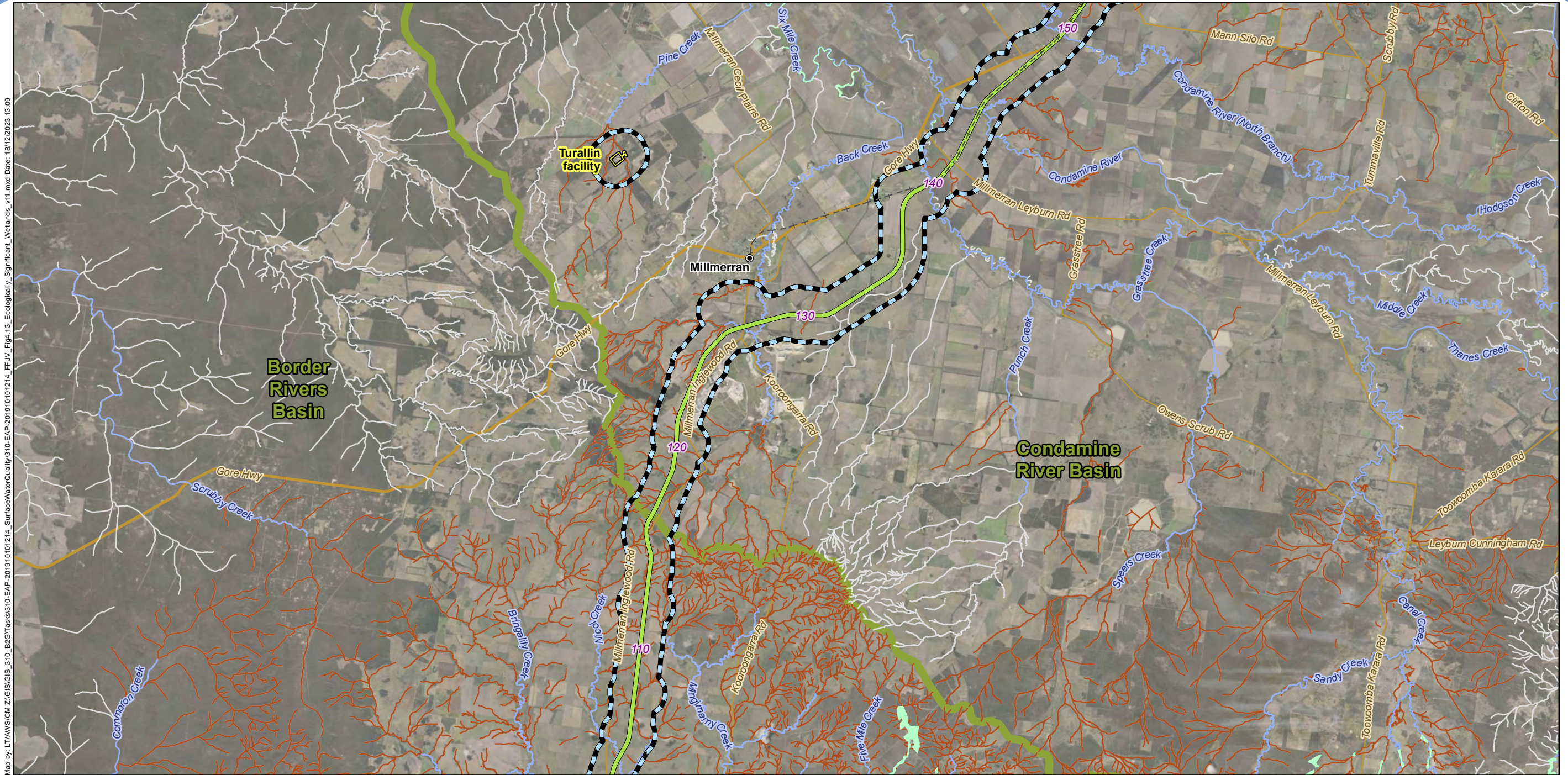
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.13a:







- Legend**
- 5 Chainage (km)
 - Localities
 - Border to Gowrie alignment
 - Existing rail (operational)
 - Existing rail (non-operational)
 - Major roads
 - Minor roads
 - Defined watercourses
 - Drainage Features
 - Unmapped watercourses (Water Act 2000)
 - Construction facilities
 - Surface water impact assessment area
 - Catchment boundaries
 - High ecological significance wetlands



A3 scale: 1:200,000
0 1.5 3 4.5 6 7.5km

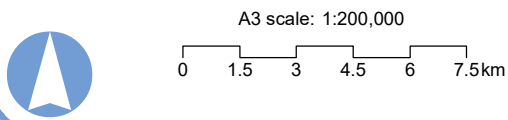
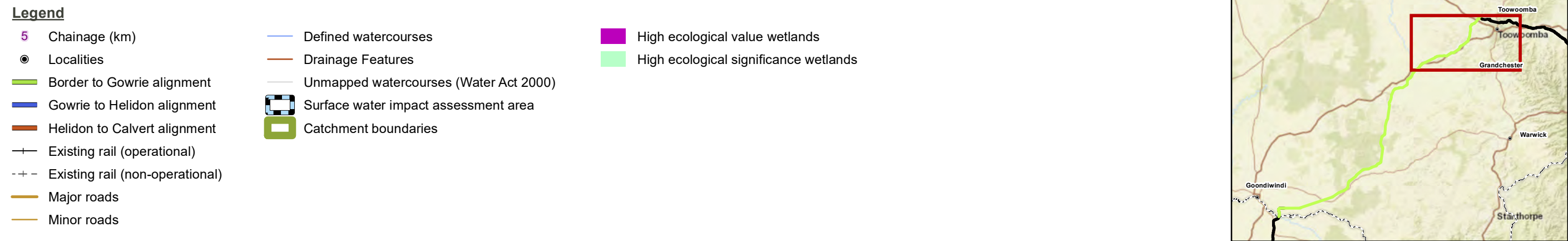
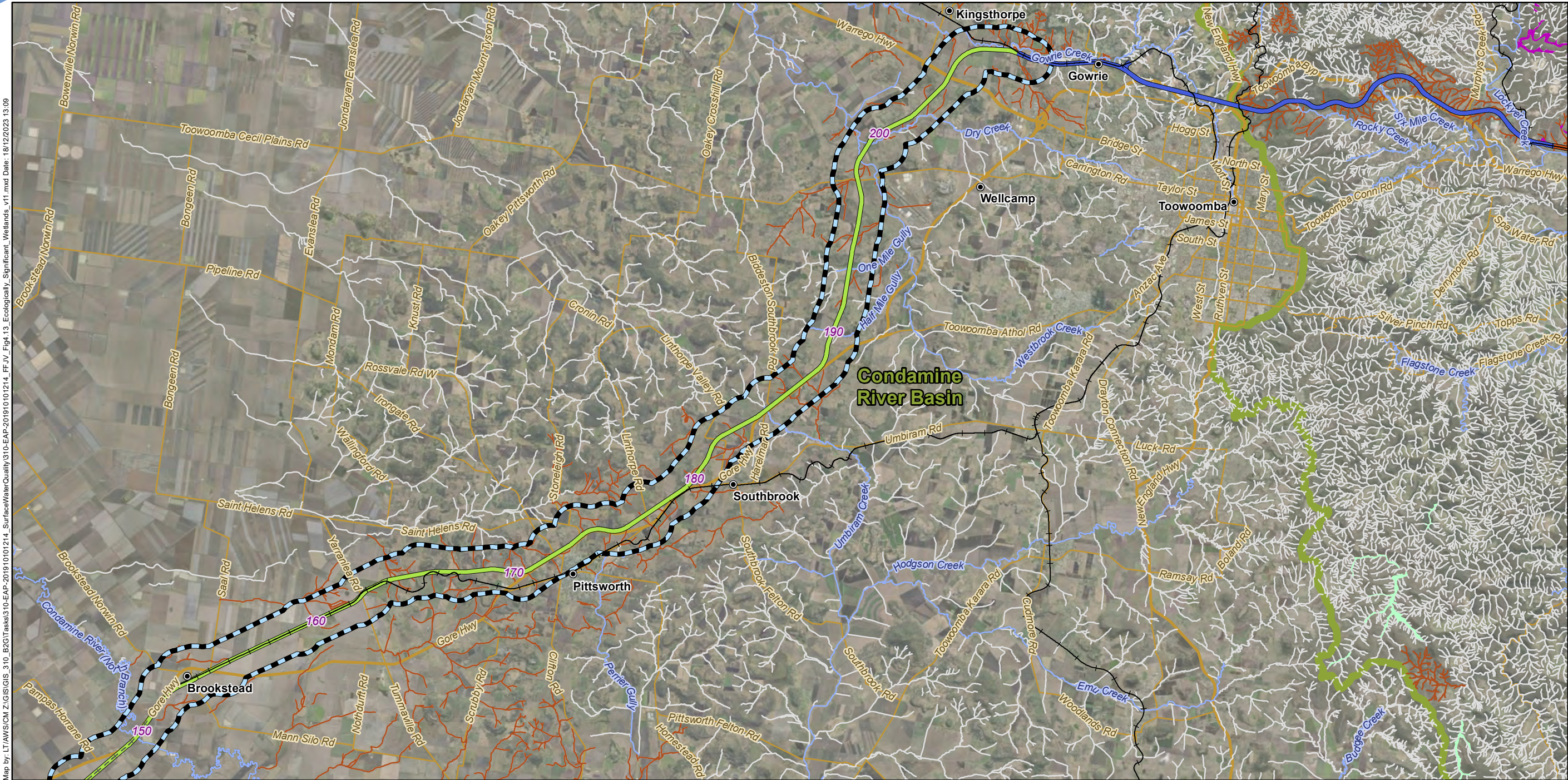


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Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.13c:

Ecologically significant wetlands in the vicinity of the impact assessment area



Border to Gowrie
Figure 4.13d:
Ecologically significant wetlands in the vicinity of the impact assessment area

4.9.2 Fish habitat area

Under the Fisheries Act a declared fish habitat area is an area protected against physical disturbance from coastal development, while still allowing legal fishing.

There are no declared fish habitat areas mapped within the impact assessment area.

4.9.3 Groundwater dependent ecosystems

Groundwater dependent ecosystems (GDEs) are ecosystems that require access to groundwater on a permanent or periodic basis to meet all or some of their water requirements so as to maintain their communities of plants and animals, ecological processes and ecosystem services (DES, 2014). Sometimes these ecosystems are also supported by surface water runoff and could potentially be impacted by changes to surface runoff.

4.9.3.1 Aquatic groundwater dependent ecosystems

No high-potential aquatic GDEs were located within 5 km of the Project footprint. Areas where potential aquatic GDEs are identified within 5 km include:

- Between NS2B Ch 30.6 km and Ch 20.0 km the project passes numerous low potential aquatic GDE associated the Macintyre River and associated tributaries
- Between Ch 40.0 km and Ch 95.0 km, the Project crosses numerous unnamed tributaries associated with Macintyre Brook and Canning Creek. These drainage features have been assigned a moderate aquatic GDE potential.
- Unnamed creeks and tributaries between Ch 115.0 km to Ch 125.0 km (southwest of Millmerran) are inferred to be associated with Bora Creek, located east of the groundwater impact assessment area, have been assigned a moderate potential for aquatic GDEs
- The Condamine River, which the Project footprint crosses near Ch 139.5 km, is considered to have a low potential for aquatic GDEs. The Condamine River North branch is not considered to support aquatic GDEs.
- Low-to-moderate potential for aquatic GDEs are mapped between Ch 165.0 km to Ch 185.0 km
- Low-to-moderate potential for aquatic GDEs are mapped between Ch 197.0 km and Ch 200.0 km, referred to be associated with Gowrie Creek.

The location of potential aquatic GDEs in relation to the Project footprint and groundwater assessment area are shown on Figure 4.14.

4.9.3.2 Terrestrial groundwater dependent ecosystems

Areas where terrestrial GDEs are identified by BoM's GDE Atlas within 5 km of the Project footprint include:

- One high potential terrestrial GDE is crossed by the Project footprint between Ch 24.4 km and Ch 26.8 km, near Yelarbon. This GDE is associated with the alkaline landscape of the Yelarbon Desert sandy plains (Department of Science, Information Technology and Innovation, 2017). This GDE is recognised under Water Plan (GABORA) 2017 as a GDE Area. The Yelarbon Desert GDE has not yet been attributed a source aquifer
- Broad areas of moderate potential for terrestrial GDEs occur between Ch 33.0 km and Ch 95.0 km. These areas are characterised to have intermittent connection to brackish aquifers associated with sandy plains and shallow alluvium (Department of Science, Information Technology and Innovation, 2017)
- Irregular areas of moderate potential for terrestrial GDEs are crossed by and surround the Project footprint between Ch 165.0 km to Ch 196.0 km. These GDEs are associated with fractured-rock aquifers of the MRV, which may provide an intermittent connection to these ecosystems.

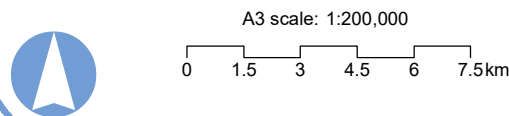
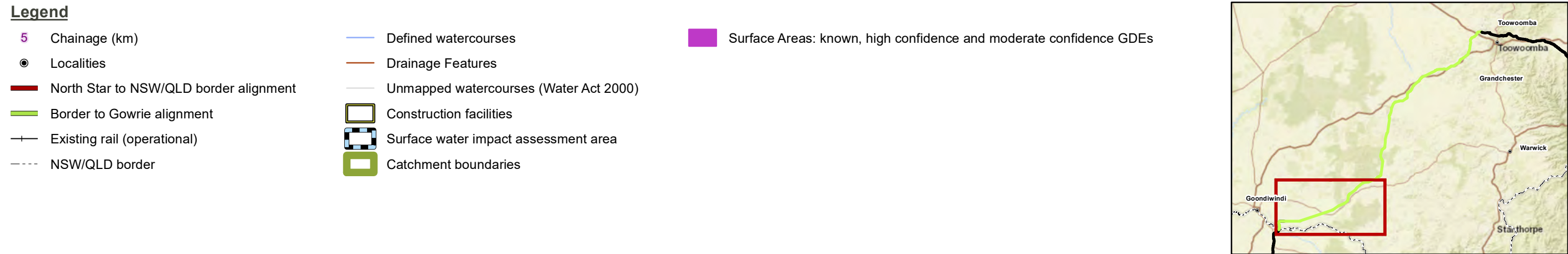
4.9.3.3 Springs

A spring is a hydrogeological feature that occurs due to natural groundwater discharge and may be classed as having a permanent or non-permanent (ephemeral) saturation regime. GDEs may in turn be associated with the expression of groundwater in a spring. A total of nine springs are identified within a 20 km distance from the Project footprint (Table 4.12 and Figure 4.14). The groundwater impact assessment area for springs was expanded significantly, as a conservative measure, as it is recognised that hydraulic connectivity between a source aquifer and spring may be expansive.

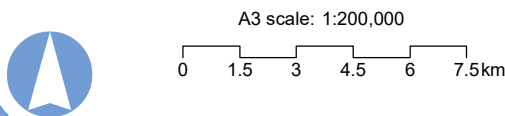
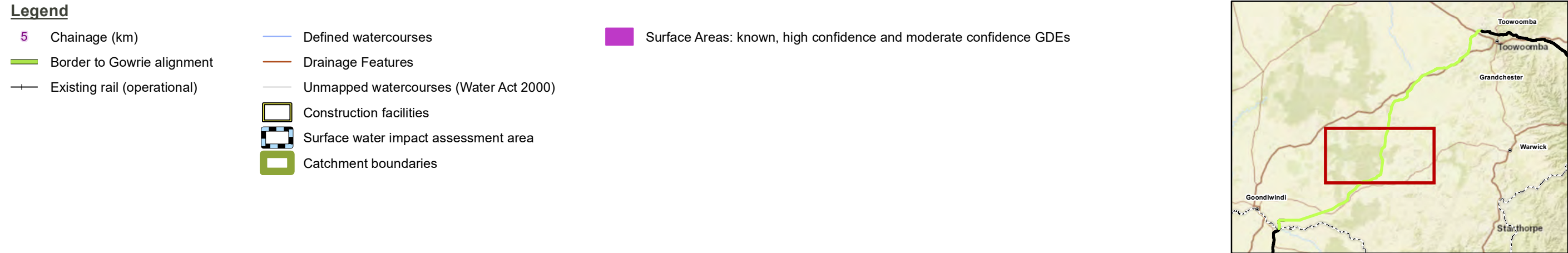
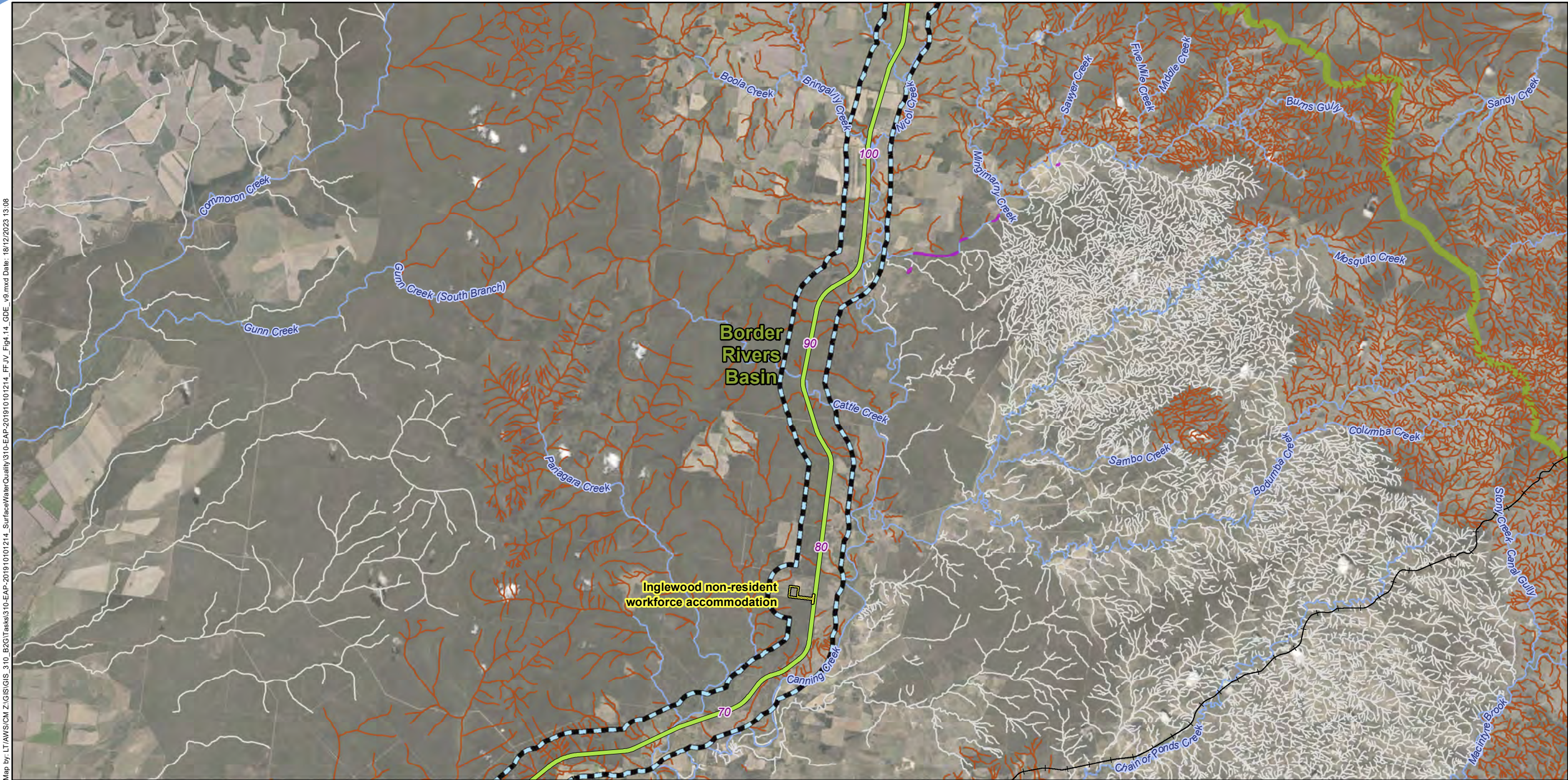
Table 4.12 Summary of springs within 20 km of Project alignment

Spring name/site #	Distance from footprint (km)	Direction from footprint	Spring type	Source aquifer
Stone Spring/1145	2.1	North-west of Ch 173.7 km	Active and non-permanent	MRV
Jimna Springs/1147	5.0	South-east of Ch 179.5 km		MRV
Springside/1146	5.5	North of Ch 166.9 km		MRV
Wellcamp Spring/1150	7.2	East of Ch 201.9 km		MRV
Leigh Spring/1144	8.7	North-west of Ch 174.0 km		MRV
Eustondale Spring/1154	10.4	East of Ch 208.2 km		MRV
Lockyer Creek Spring/1382	23.7	East of Ch 208.2 km		MRV
Helidon Spring/1504	26.7	East of Ch 208.2 km		MRV
Kearneys Spring/1139	14.8	East of Ch 208.2 km	Active - Permanent	MRV

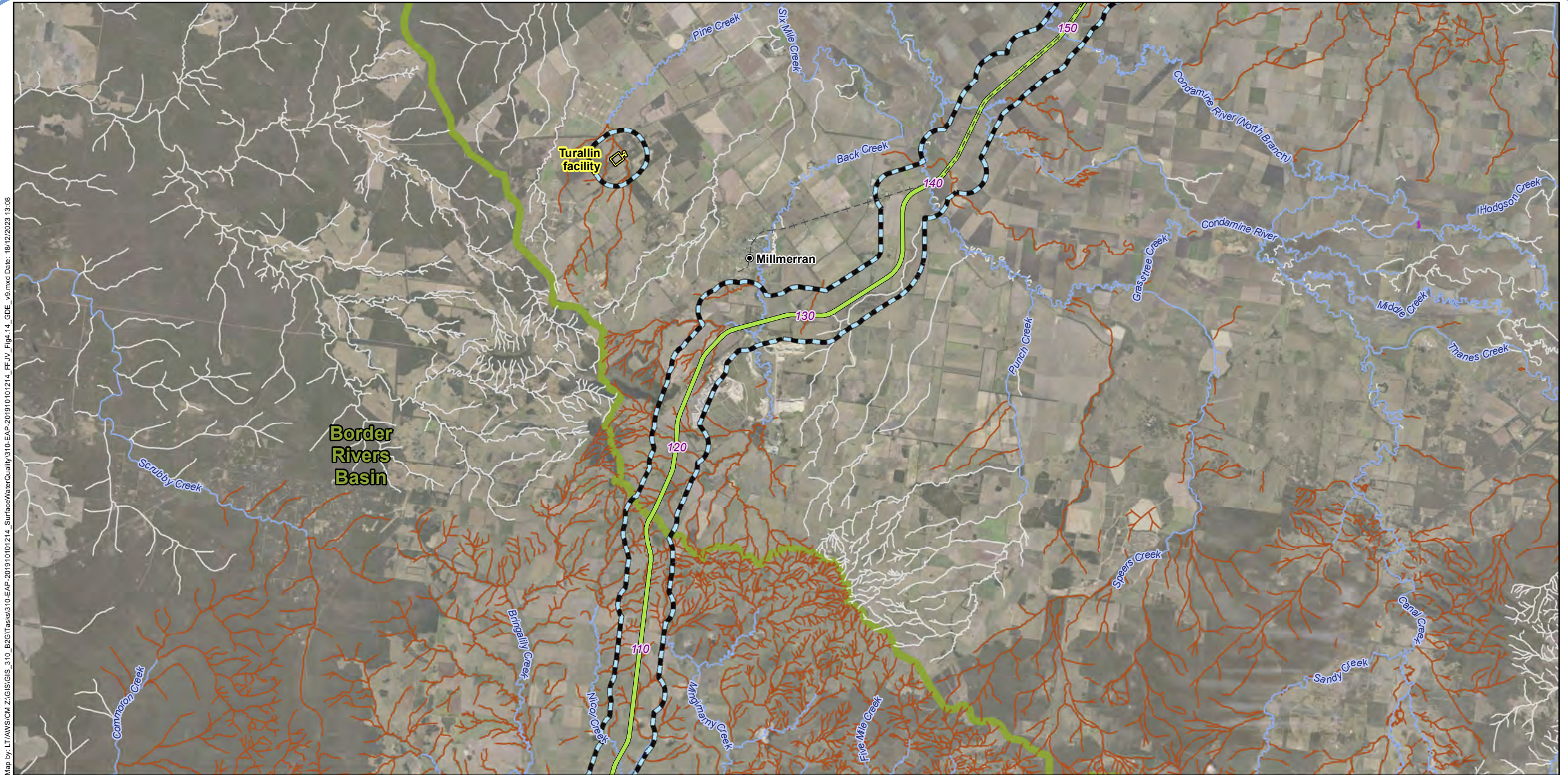
Source: Department of Science, Information Technology and Innovation (2020)



Border to Gowrie
Figure 4.14a:
Aquatic groundwater dependant ecosystems in the vicinity of the Project impact assessment area



Border to Gowrie
Figure 4.14b:
Aquatic groundwater dependant ecosystems in the vicinity of the Project impact assessment area



Legend

- | | | |
|---------------------------------|--|--|
| 5 Chainage (km) | Defined watercourses | Surface Areas: known, high confidence and moderate confidence GDEs |
| Localities | Drainage Features | |
| Border to Gowrie alignment | Unmapped watercourses (Water Act 2000) | |
| Existing rail (operational) | Construction facilities | |
| Existing rail (non-operational) | Surface water impact assessment area | |
| | Catchment boundaries | |



A3 scale: 1:200,000
0 1.5 3 4.5 6 7.5km

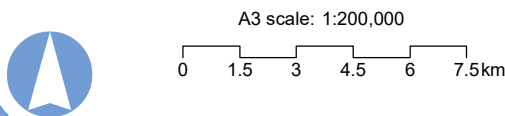
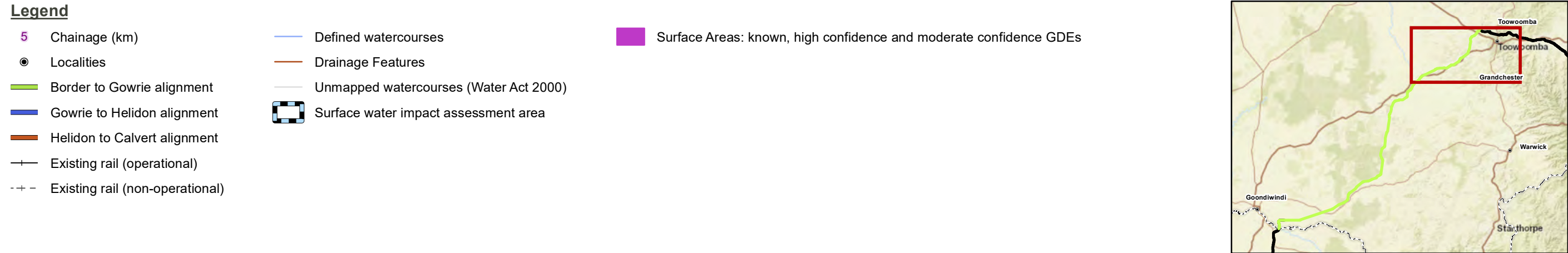
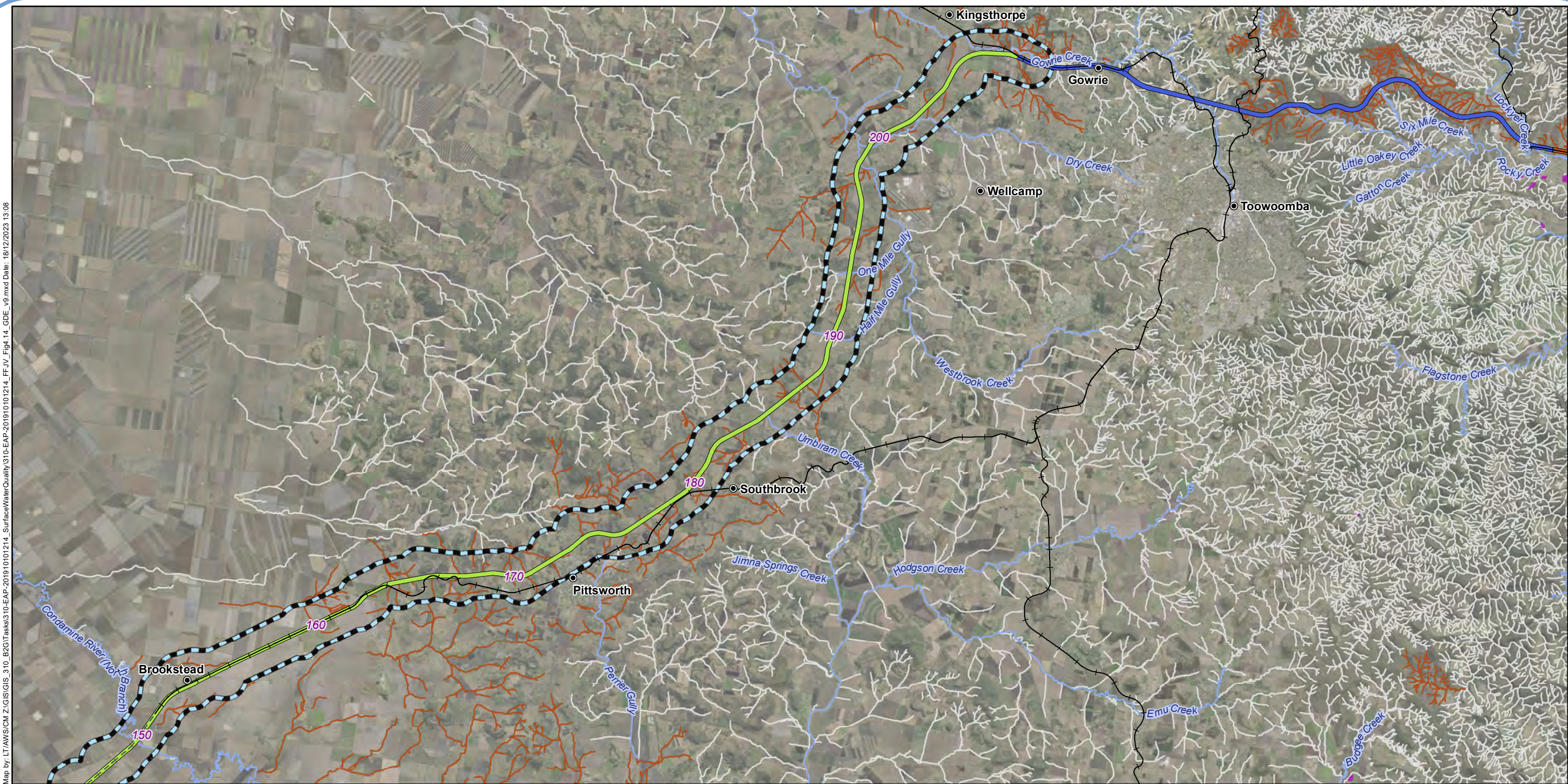


Issue date: 18/12/2023 Version: 9
Coordinate System: GDA 1994 MGA Zone 56

Border to Gowrie

Figure 4.14c:

Aquatic groundwater dependant ecosystems in the vicinity of the Project impact assessment area



4.10 Salinity hazard and risk

Existing salinity expressions within the impact assessment area and the potential for new expressions of salinity have been assessed in EIS Appendix J: Soil Assessment, in reference to published literature and the results of soil sample analysis as part of geotechnical investigations for the Project.

A targeted salinity hazard assessment has been undertaken by the Project in accordance with Part B of the *Salinity Management Handbook* (Department of Environment and Resource Management, 2011). Potential impacts of the project on hydrology were considered on a sub-catchment level. The assessment concluded that sub-catchments within the impact assessment area have either a moderate or high overall salinity hazard rating, when calculated from the mean hazard rating from the potential expression area types that may occur.

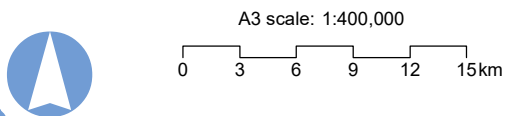
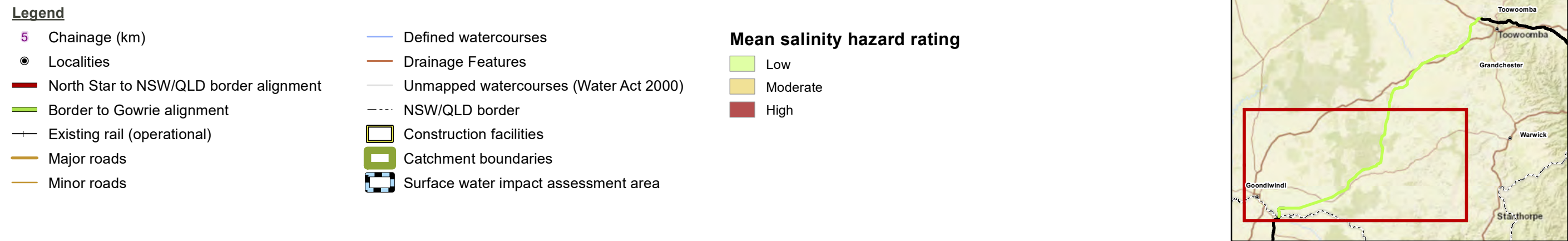
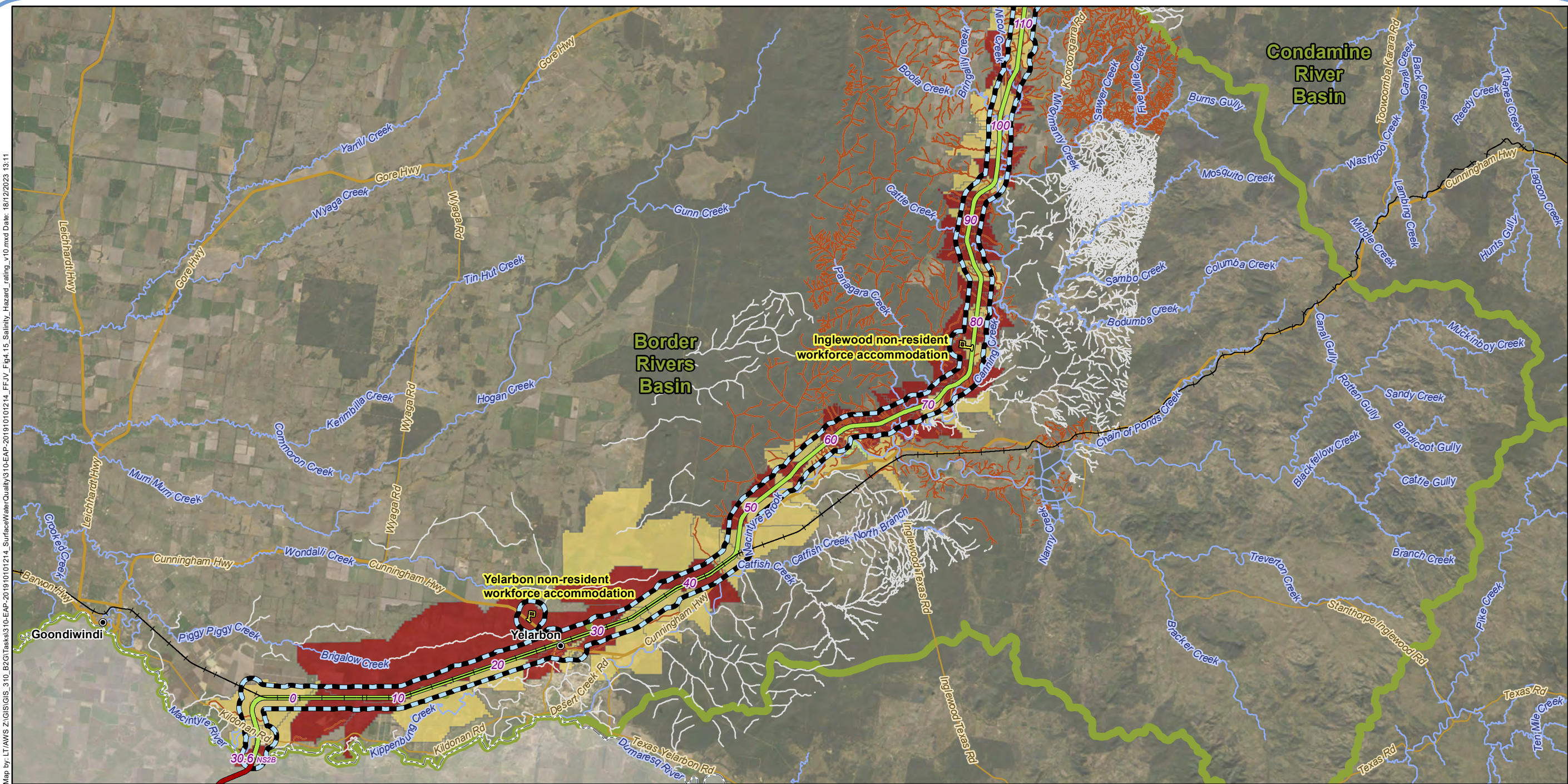
The salinity hazard rating of land within the impact assessment area has been assessed and is shown in Figure 4.15.

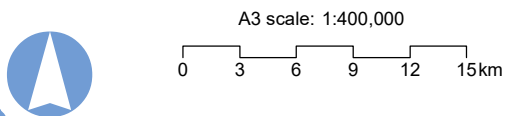
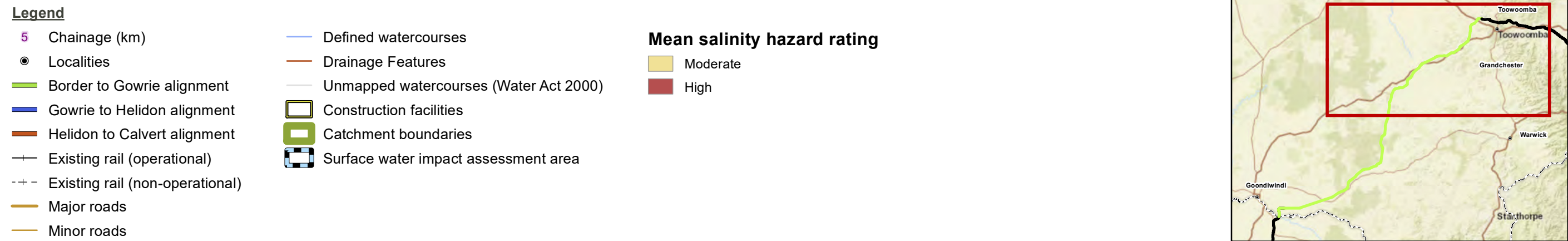
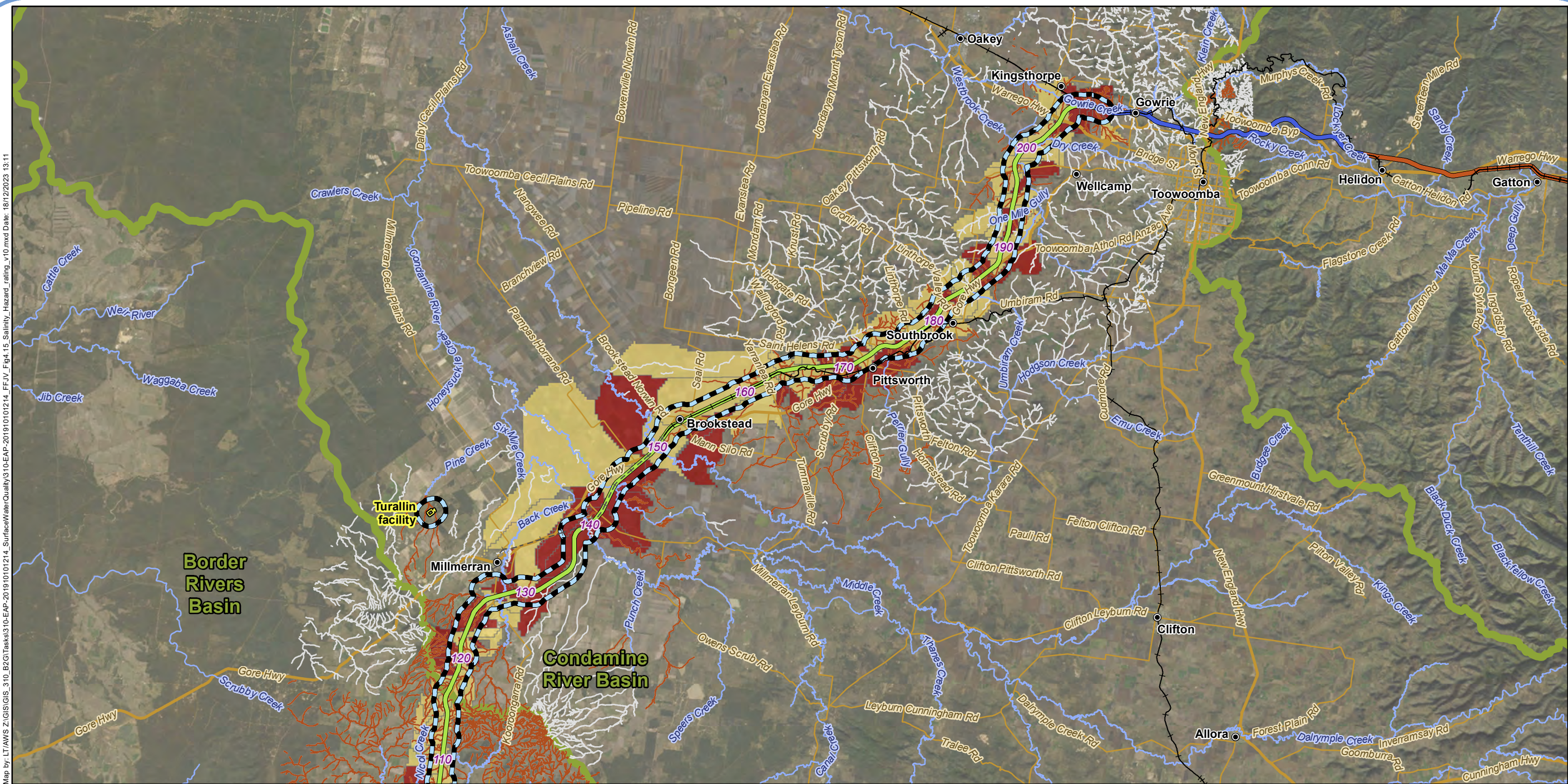
Two salinity risk assessments have previously been undertaken within the impact assessment area. The *Salinity Risk Assessment for the Queensland Murray-Darling Region* (Biggs et al. 2010b) provides coverage of the impact assessment area between the Macintyre River and east of Millmerran State Forest and the *Strategic Salinity Risk Assessment in the Condamine Catchment* (Searle et al. 2007) provides coverage of the impact assessment area from east of Millmerran State Forest to Gowrie.

The *Salinity Risk Assessment for the Queensland Murray-Darling Region* identified 58 known salinity expression areas affected by secondary salinity, including the Yelarbon Desert in the Border Rivers basin. The Yelarbon area is known for its extremely alkaline, sodic sodosol soils strongly attributed to upwelling of sodium bicarbonate rich groundwater (Biggs et al. 2010a).

The salinity risk assessment identified the use of saline groundwater, leaking dams and dissolution of salts as the most common salinity types within the Border Rivers basin. The risk assessment concluded that salinity in the region will have a low risk to rail infrastructure, although it acknowledged that more research is required regarding secondary salinity formation and the impact of salinity on infrastructure assets (Biggs et al. 2010b).

The *Strategic Salinity Risk Assessment in the Condamine Catchment* (Searle et al. 2007) identified more than 170 salinity expression sites, with most influenced by climatic conditions. The Strategic Salinity Risk Assessment identified that a return to typical long-term weather patterns will likely increase the size and number of dryland salinity expressions in the region and increase salt load exported from the catchment. The impact assessment area intersects subcatchment areas that are considered by the Strategic Salinity Risk Assessment to contain a very low to high overall salinity risk. The Millmerran area is considered to have a very low to low risk of secondary salinity, whilst the Pittsworth and Gowrie area are considered to have a moderate risk. An area of high salinity risk occurs within the impact assessment area near Southbrook and presents a 'Current' threat to infrastructure assets in the area (Searle et al. 2007).





4.11 Surface water resources and use

A desktop analysis was undertaken of lots holding water licences that intersect the impact assessment area. Within the impact assessment area, water allocation licence data indicates that there are few allocations of surface water, and limited surface water is used for irrigation. However, groundwater is the predominant water supply for irrigation and stock watering. Many of the surface water licences are associated with channel diversions or impoundments. Data from DRDMW (2023) showing water licences is presented in Table 4.13.

Table 4.13 Summary of 2023 Water Licence data for major watercourses

Water source	No. of water licences issued	Water made available (ML/yr)
Canning Creek (surface water source)	11	(4 ha of irrigation*)
Canning Creek (alluvial aquifer)	3	75
Condamine River (surface water source)	1	N/A
Condamine River (alluvial aquifer)	1	74
Condamine River – North Branch (surface water source)	1	N/A
Condamine River – North Branch (alluvial aquifer)	3	19,690
Dry Creek (alluvial aquifer)	5	252
Macintyre Brook (surface water source)	3	N/A
Macintyre Brook (alluvial aquifer)	2	193
Macintyre River (surface water source)	2	N/A
Macintyre River (alluvial aquifer)	1	10
Westbrook Creek (surface water source)	1	N/A
Westbrook Creek (alluvial aquifer)	17	1,560
Other surface water sources	10	(12 ha of irrigation*)
Other alluvial aquifers	27	6,531

Source: DRDMW (2023)

Table notes:

* Older water licences were based on irrigable area

ML = megalitres

4.12 Water quality receptors

A receptor is a feature, area or structure that may be affected by direct or indirect changes to the environment. Water quality receptors within the impact assessment area have been identified in reference to EPP (Water and Wetland Biodiversity) and relevant EVs for the relevant basins (Section 2.2). Subsequently, water quality receptors of relevance to the impact assessment area have been identified to be the following:

- Queensland's natural environment (including utilisation by native flora and fauna)
- Finite natural resources, with specific regard to wetlands
- Watercourses conducive to the maintenance of existing landforms, ecological health and biodiversity.

Due to the interconnected nature of the watercourses that occur within the impact assessment area, the water quality receptors for the existing environment (as a whole of package) are considered to be of moderate sensitivity due to several factors, including:

- Protected by State legislation, with acknowledgement of potential habitat for MNES species
 - Water Act
 - Fisheries Act

– *Nature Conservation Act 1992* (Qld).

- Important for biodiversity
- Existing sensitivity, with high exposure to impacts.

To maintain a conservative approach to assessment, all waterways and waterbodies within the Project footprint, study area and downstream receiving environments were nominated as moderate sensitivity water quality receptors for identification of potential impacts, associated mitigation measures and identification of residual impact after implementation of mitigation.

High-sensitivity water quality receptors were identified where a waterway was known to support another matter identified and protected under legislation, for example MNES species (Fringing rush (*Fimbristylis vagans*), Murray cod (*Maccullochella peelii*), and Agassiz's glassfish (*Ambassis agassizii*)) and MSES wetlands (EIS Appendix L: Terrestrial and Aquatic Ecology Technical Report). The Macintyre River, Macintyre Brook, Canning Creek and the Condamine River were all identified as being high-sensitivity water quality receptors for the purpose of this assessment.

5 Surface water quality assessment

5.1 Desktop review of surface water quality within the Border Rivers and Condamine River basins

Water quality within the Border Rivers and Condamine River basin is typically monitored across a variety of flows. Turbidity is typically high throughout both catchments, with relatively high levels of electrical conductivity within the upper reaches of the catchments (DES, 2018b). Ecosystem health within both catchments has been identified as poor under the most recent sustainable rivers audit report 2 (Murray Darling Basin Authority, 2012). Key risks (identified under the Q-catchments program (Negus *et al.* 2015 in DES 2018)) to the catchment include: instream pest fauna, sedimentation, hydrology regime change, climate change, riparian disturbance and connectivity barriers.

Indicative water quality within the Borders Rivers and Condamine River basins has been collected in some manner since 1981, 1986 and 1963, respectively at the DRDMW stream gauging stations of Macintyre Brook at Inglewood (416402C), Macintyre Brook at Booba Sands (416415A) the Condamine River at Tummaville (422323A) and Gowrie Creek at Oakley (422332B) (Table 5.1). As the sites have been operating for different periods of time, Table 5.1 further includes the number of samples collected for each parameter for each site. Limitations in the number of non-continuous samples are present within the current dataset, appearing principally due to limited hydrological flow.

Noting the limitations in sampling intensity within the data (typically several samples taken each year between 1987 and 2023), current parameters within the selected gauging stations for the Border Rivers basin typically comply with WQOs for low flow conditions but exceedances were predominant under high flow conditions. Exceedances in electrical conductivity in both high and low flow were noted in the lower end of the Macintyre Brook catchment (Booba Sands) and in the Condamine River at Tummaville. Notably, Turbidity, total Nitrogen (TN), Ammonia and total Phosphorus (TP) concentrations in Gowrie Creek at Oakley were exceeding WQOs for both flow characteristics.

Table 5.1 Gauging station median water quality data with respective WQOs (high and low flow, moderately disturbed)

Water parameter	DRDMW gauging station			
	Macintyre Brook at Inglewood (416402C) (1981 to 2018)	Macintyre Brook at Booba Sands (416415A) (1987 to 2018)	Condamine River at Tummaville (422323A) (1963 to 2018)	Gowrie Creek at Oakley (422332B)
Conductivity (µs/cm) (n = 88, 81, 130, 180)	355 (HF 250, LF 370)	375 (HF 180, LF 245)	395 (HF 240, LF 320)	505 (HF 375, LF 510)
NTU (n = 86, 78, 80, 150)	9 (HF 11, LF 25)	12 (HF 30, LF 110)	44 (HF 25, LF 165)	435 (HF 13, LF 55)
pH (n = 86, 81, 130, 181)	7.52 (HF 7.2, LF 8.0)	7.50 (HF 7.0, LF 8.0)	7.77 (HF 7.2, LF 8.1)	7.54 (HF 6.5, LF 7.5)
Total suspended solids (n = 74, 63, 100, 172)	14.5 (HF 10, LF 25)	19 (HF 10, LF 25)	47.5 (HF 20, LF 140)	875.5 (HF 12, LF 55)
Total nitrogen (mg/L) (n = 41, 47, 40, 99)	0.88 (HF 0.71, LF 0.91)	0.94 (HF 0.58, LF 0.9)	0.91 (HF 0.74, LF 1.21)	3.31 (HF 1.00, LF 1.28)
Ammonia (mg/L) (n = 30, 37, 27, 49)	0.0065 (0.08)	0.022 (0.2)	0.009 (0.02)	0.055 (<0.01)

Water parameter	DRDMW gauging station			
	Macintyre Brook at Inglewood (416402C) (1981 to 2018)	Macintyre Brook at Booba Sands (416415A) (1987 to 2018)	Condamine River at Tummaville (422323A) (1963 to 2018)	Gowrie Creek at Oakey (422332B)
Total phosphorus (mg/L) (n = 47, 52, 49, 154)	0.067 (HF 0.06, LF 0.07)	0.079 (HF 0.07, LF 0.15)	0.234 (HF 0.14, LF 0.47)	2.96 (HF 0.11, LF 0.34)

Source: DRDMW (WMIP) (2023)

Table notes:

Due to the typical flow patterns of Macintyre Brook and the Condamine River, the median values were considered to be based on data analysis of a majority of base flow data (i.e. low flow condition).

Highlighted data indicate median value are outside of WQO objective at either high or low flow. 'n' denotes number of samples from gauging station records.

HF = High flow, LF = Low flow

5.2 Field assessment of surface water quality

5.2.1 Timing of baseline sampling

Eighteen surface water quality sampling events were conducted over two periods, as follows:

- Five sampling events between June 2018 and May 2019
- Thirteen sampling events between December 2020 and November 2021.

The first period of sampling was undertaken to inform the B2G Draft EIS. The second period of sampling was conducted to supplement the data previously collected, with the objective of enabling interim site-specific WQOs to be derived.

The EPP (Water and Wetland Biodiversity) presents different water quality guideline values for baseflow/low flow and high flow conditions for some water quality parameters. Routine surface water quality monitoring events were selected in order to efficiently incorporate varying environmental conditions (expected seasonal variation) with regards to low/base flow surface water conditions with the expectation this will be the typical environmental conditions encountered during construction and operational works related to the Project. Additional sampling during high-flow (flood) events was conducted to determine water quality parameters under high flow conditions and compare these to the relevant guideline level values.

5.2.2 General conditions

To capture representative stream flow behaviour from the impact assessment area, stream flow data was retrieved from the Macintyre Brook, Condamine River and Gowrie Creek gauging stations. The weather conditions leading up to the first six sampling events was generally clear and dry, except for the second sampling event where the weather was hot with some rainfall. Table 5.2 identifies that there was minimal rainfall recorded at either BoM weather station in the week leading up to the first sampling event. Stream flow rates (in terms of passage over the gauging station control), indicate that no surface base flow was observed downstream of the gauging station preceding the first water quality sampling event within the Condamine River. Continual discharge was evident within Gowrie Creek and Macintyre Brook.

Table 5.2 Rainfall and stream flow prior to and including the first sampling event (11 to 20 June 2018)

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
Monday 4 June 2018	0.0	13.48	0.0	0.00	20.57
Tuesday 5 June 2018	0.0	13.12	0.0	0.00	18.81
Wednesday 6 June 2018	0.0	11.71	0.0	0.00	12.68
Thursday 7 June 2018	0.0	18.86	6.0	0.00	11.01
Friday 8 June 2018	0.0	17.46	0.0	0.00	12.70
Saturday 9 June 2018	0.0	42.19	0.0	0.00	18.50
Sunday 10 June 2018	0.0	112.49	1.0	0.00	18.49
Monday 11 June 2018	0.0	120.03	0.0	0.00	20.22
Tuesday 12 June 2018	0.0	103.97	0.0	0.00	18.05
Wednesday 13 June 2018	0.0	52.54	0.0	0.00	16.22
Thursday 14 June 2018	0.0	29.11	0.0	0.00	15.94
Friday 15 June 2018	0.0	24.41	0.0	0.00	14.01
Saturday 16 June 2018	0.0	20.07	0.0	0.00	11.36
Sunday 17 June 2018	0.0	16.56	0.0	0.00	10.85
Monday 18 June 2018	0.0	19.33	0.0	0.00	10.36
Tuesday 19 June 2018	0.0	28.36	0.0	0.00	11.25
Wednesday 20 June 2018	0.0	16.15	0.0	0.00	10.63

Source: BoM (2020), DRDMW (WMIP) (2020)

The weather conditions leading up to the second sampling event (November/December 2018) were generally hot with some rainfall occurring across both BoM weather stations. Table 5.3 indicates that 33 mm and 11.4 mm, respectively of rain was recorded in the week from the Booba Sands and the Pittsworth BoM stations leading up to the second sampling event. Although higher rainfall was observed prior to the second sampling event, streamflow mirrored the first water quality assessment within no flow in the Condamine River. Continual discharge was evident within Gowrie Creek and Macintyre Brook.

Table 5.3 Rainfall and stream flow prior to and including the second sampling event (26 November and 3 December 2018)

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
Monday 19 November 2018	1.0	33.48	0.0	0.00	17.74
Tuesday 20 November 2018	0.0	31.36	0.0	0.00	12.62
Wednesday 21 November 2018	0.0	33.51	0.0	0.00	11.62
Thursday 22 November 2018	32.0	48.15	5.0	0.00	92.52
Friday 23 November 2018	0.0	43.53	6.4	0.00	64.43
Saturday 24 November 2018	0.0	31.36	0.0	0.00	26.42
Sunday 25 November 2018	0.0	17.30	0.0	0.00	21.82
Monday 26 November 2018	0.0	12.10	0.0	0.00	18.06
Tuesday 27 November 2018	0.0	14.14	0.0	0.00	17.22
Wednesday 28 November 2018	0.0	14.97	5.0	0.00	67.02
Thursday 29 November 2018	0.0	24.26	0.0	0.00	27.88

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
Friday 30 November 2018	0.0	26.13	0.0	0.00	17.59
Saturday 1 December 2018	0.0	28.40	0.0	0.00	11.36
Sunday 2 December 2018	0.0	25.91	0.0	0.00	5.99
Monday 3 December 2018	0.0	59.55	0.0	0.00	3.68

Source: BoM (2020), DNRME (WMIP) (2020)

The weather conditions leading up to the third sampling event (February 2019) were clear and dry. Table 5.4 indicates 1 mm of rain was recorded across both BoM weather stations in the week leading up to the third sampling event. Stream discharge within the Condamine River remained absent. Continual discharge was evident within Gowrie Creek and Macintyre Brook.

Table 5.4 Rainfall and stream flow prior to and including the third sampling event (11 to 19 February 2019)

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
Monday 4 February 2019	0.0	27.54	0.0	0.00	5.22
Tuesday 5 February 2019	0.0	15.08	0.0	0.00	3.84
Wednesday 6 February 2019	0.0	23.24	0.0	0.00	0.53
Thursday 7 February 2019	0.0	24.34	0.0	0.00	28.59
Friday 8 February 2019	0.0	31.91	0.0	0.00	9.79
Saturday 9 February 2019	0.0	30.21	0.0	0.00	5.31
Sunday 10 February 2019	1.0	24.32	0.0	0.00	3.87
Monday 11 February 2019	0.0	16.22	0.0	0.00	8.00
Tuesday 12 February 2019	0.0	6.79	0.0	0.00	5.81
Wednesday 13 February 2019	0.0	6.95	0.0	0.00	5.45
Thursday 14 February 2019	0.0	25.49	0.0	0.00	4.69
Friday 15 February 2019	0.0	19.29	0.0	0.00	4.19
Saturday 16 February 2019	0.0	29.54	0.0	0.00	3.55
Sunday 17 February 2019	0.0	47.57	0.0	0.00	2.08
Monday 18 February 2019	0.0	59.95	0.0	0.00	0.01
Tuesday 19 February 2019	0.0	65.39	0.0	0.00	2.18

Source: BoM (2020), DNRME (WMIP) (2020)

The weather conditions leading up to the fourth sampling event (April/May 2019) were generally clear and dry. Table 5.5 indicates no rainfall was recorded at either BoM weather station the week leading up to the fourth sampling event. Stream discharge within the Condamine River remained absent. Continual discharge was evident within Macintyre Brook and relatively higher (in comparison to previous assessments) in Gowrie Creek.

Table 5.5 Rainfall and stream flow prior to and including the fourth sampling event (29 April to 2 May 2019)

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
Monday 22 April 2019	0.0	21.58	0.0	0.00	31.42
Tuesday 23 April 2019	0.0	26.28	0.0	0.00	21.85
Wednesday 24 April 2019	0.0	24.47	0.0	0.00	31.42
Thursday 25 April 2019	0.0	32.37	0.0	0.00	21.48
Friday 26 April 2019	0.0	28.60	0.0	0.00	21.49
Saturday 27 April 2019	0.0	28.46	0.0	0.00	27.42
Sunday 28 April 2019	0.0	38.65	0.0	0.00	30.53
Monday 29 April 2019	0.0	33.31	0.0	0.00	27.31
Tuesday 30 April 2019	0.0	28.83	0.0	0.00	27.07
Wednesday 1 May 2019	0.0	27.17	0.0	0.00	42.86
Thursday 2 May 2019	0.0	25.64	0.0	0.00	46.11

Source: BoM (2020), DNRME (WMIP) (2020)

The weather conditions leading up to the fifth sampling event (May 2019) were generally clear and dry. Table 5.6 indicates no rainfall was recorded at either BoM weather station the week leading up to the fifth sampling event. Stream discharge within the Condamine River remained absent. Continual discharge was evident within Macintyre Brook and relatively higher (in comparison to previous assessments) in Gowrie Creek.

Table 5.6 Rainfall and stream flow prior to and including the fifth sampling event (15 May to 19 May 2019)

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
Wednesday 8 May 2019	0.00	4.77	0.00	0.00	14.59
Thursday 9 May 2019	0.00	2.19	0.00	0.00	20.19
Friday 10 May 2019	0.00	1.77	0.00	0.00	24.86
Saturday 11 May 2019	0.00	1.58	0.00	0.00	26.15
Sunday 12 May 2019	0.00	0.77	0.00	0.00	27.43
Monday 13 May 2019	0.00	0.32	0.00	0.00	26.14
Tuesday 14 May 2019	0.00	0.43	0.00	0.00	22.71
Wednesday 15 May 2019	0.00	3.74	0.00	0.00	17.80
Thursday 16 May 2019	0.00	3.58	0.00	0.00	15.92
Friday 17 May 2019	0.00	3.50	0.00	0.00	15.20
Saturday 18 May 2019	0.00	1.60	0.00	0.00	23.95
Sunday 19 May 2019	0.00	4.75	0.00	0.00	27.08

Source: BoM (2020), DNRME (WMIP) (2020)

Rainfall and stream flow averages seven days prior to and including the day of the sixth and seventh sampling events are presented in Table 5.7

Table 5.7 Rainfall and stream flow averages prior to and including baseline water quality sampling events (14 December 2020 to 28 May 2021)

Day/date	Rainfall at Booba Sands (mm daily)	Macintyre Brook stream flow (average M/L per day)	Rainfall at Pittsworth (mm daily)	Condamine River stream flow (average M/L per day)	Gowrie Creek at Oakey stream flow (average M/L per day)
14 to 17 December 2020	2.55	26.02	4.64	0.00	33.04
19 to 21 January 2021	6.2	35.11	6.2	209.60	31.15
23 to 25 February 2021	0.9	2.92	0.64	0.00	16.18
13 to 15 April 2021	3	2,627.60 (High Flow)	2	990.06 (High Flow)	64.48
5 to 7 May 2021	1.86	14.20	3.23	98.84	44.04
26 to 28 May 2021	0	9.80	0	119.28	25.42
23 to 25 March 2021 (high flow)	10.9	2750.41	12.44	4855.33	218.22

Source: BoM (2023), DNRME (WMIP) (2022)

5.2.3 Field and laboratory assessed water quality results

A summary of the surface water quality assessments is provided below alongside water quality assessments separated into each of the relevant water type zones under the Border Rivers basin and the Condamine River basin. Surface water quality site investigation results are provided in Appendix B and a general description of each site is provided in Appendix C (Table C-1).

5.2.3.1 Queensland Border Rivers basin

Macintyre Barwon Floodplain (Sites 1 to 2)

Water quality results for the Macintyre Barwon Floodplain reflect a catchment with elevated pH, salinity and organic nutrient levels, most likely due to a combination of saline soils, poor riparian vegetation and adjacent grazing land use.

Physico-chemical parameters (Table 5.8) presented WQO exceedances of pH in most cases, EC exceedances in half of the samples and several elevated levels for DO, Turbidity and Total Suspended Solids.

Nutrient parameters (Table 5.9) show WQO exceedances for the majority of samples for the parameters Nitrogen Oxides (NO_x), Total N, Total P and Reactive P. Chlorophyll a and Ammonia occasionally exceeded WQOs.

Dissolved metal concentrations (Table 5.10) were below laboratory detection limits for cadmium, lead, and zinc. Several exceedances for copper were noted, potentially due to applications of herbicides or fertilisers containing copper sulphates. Mercury exceeded WQOs in August 2021.

The concentration of PAHs was below the laboratory level of detection at all sites for all sampling events.

Table 5.8 Water quality results for Sites 2 and 2R in the Macintyre Barwon Floodplain – physico-chemical

Physico-chemical		pH	Temp (°C)	DO (% Sat)	EC (µS/cm)	Salinity (mg/L)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low flow		7.4 to 8.0	-	60 to 110	240	-	30	25	-	-	-
High flow		7.0 to 7.5	-	60 to 110	180	-	110	70	-	-	-
Site	Sampling event										
2	Jun 2018	Not sampled									
	Nov 2018	7.74	25.5	83.8	224	0.10	53.2	27	12	10	71
	Feb 2019	6.77	28.7	101.6	211	0.11	22.9	23	13	11	78
	Apr 2019	7.23	21.6	76.2	216	0.10	11.2	10	16	13	93
	May 2019	7.76	16.8	84.6	299	0.14	13.0	12	15	8	70
	December 20	8.04	25.2	55.3	380	180	27	34	N/A	N/A	120
	Jan 2021	7.84	29.5	103.5	320	150	17	22	N/A	N/A	130
	Feb 2021	No access									
	Mar 2021*	No access									
	Apr 2021	6.75	25	52.1	220	110	28	25	N/A	N/A	52
	Early May 2021	7.09	18.7	50	320	176	22	19	N/A	N/A	23
	Late May 2021	7.3	16.8	66.2	320	180	18	5	N/A	N/A	71
	Jun 2021	7.13	N/A	81.7	81.7	N/A	55	38	N/A	N/A	N/A
	Jul 2021	7.14	N/A	85.2	85.2	N/A	48	12	N/A	N/A	N/A
	Aug 2021	7.12	N/A	80.9	80.9	N/A	15	37	N/A	N/A	N/A
	Sep 2021	7.83	N/A	90	90	N/A	9.1	14	N/A	N/A	N/A
	Oct 2021	7.53	N/A	83.4	83.4	N/A	21	28	N/A	N/A	N/A
	Nov 2021	6.69	N/A	70.2	70.2	N/A	5.2	6.8	N/A	N/A	N/A

Physico-chemical		pH	Temp (°C)	DO (% Sat)	EC (µS/cm)	Salinity (mg/L)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
2R	Jun 2018	7.61	14.0	57.5	239	0.12	13.4	<5	10	8	58
	Nov 2018	7.27	25.0	90.2	223	0.1	96.0	43	12	9	67
	Feb 2019	7.31	28.9	89.5	211	0.11	25.7	24	13	11	78
	Apr 2019	7.68	22.3	71.6	215	0.10	12.2	7	16	13	93
	Dec 2020	8.28	25.3	66.7	340	160	23	16	N/A	N/A	130
	Jan 2021	7.95	29.7	105	310	150	23	4.9	N/A	N/A	130
	Feb 2021	No access									
	Mar 2021*	No access									
	Apr 2021	7	20.4	66.3	210	100	20	31	N/A	N/A	43
	Early May 2021	7.34	18.7	N/A	310	171	14	20	N/A	N/A	31
	Late May 2021	7.56	16.8	62.6	310	190	16	11	N/A	N/A	67
	Jun 2021	7.66	N/A	79.4	220	N/A	49	39	N/A	N/A	N/A
	Jul 2021	7.13	N/A	84.4	180	N/A	82	34	N/A	N/A	N/A
	Aug 2021	7.22	N/A	81.2	240	N/A	15	32	N/A	N/A	N/A
	Sep 2021	7.12	N/A	86.7	260	N/A	5.4	12	N/A	N/A	N/A
	Oct 2021	7.56	N/A	83.2	270	N/A	16	27	N/A	N/A	N/A
	Nov 2021	6.68	N/A	67.6	180	N/A	55	5.2	N/A	N/A	N/A

Source: ANZG, 2018; DES, 2020b; ELA 2019

Table notes:

Values outside guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = LOR > WQO

LOR = Limit of Reporting

Table 5.9 Water quality results for Sites 2 and 2R in the Macintyre Barwon Floodplain – nutrients

Nutrients (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low flow		0.02	-	-	0.010	-	-	0.575	0.07	0.02	3
High flow		ID	-	-	0.195	-	-	0.9	0.15	ID	ID
Site	Sampling event										
2	Jun 2018	Not sampled									
	Nov 2018	<0.01	<0.01	<0.01	<0.01	0.5	0.5	0.5	0.12	0.04	9
	Feb 2019	0.07	<0.01	0.17	0.17	0.5	0.6	0.8	0.16	0.13	2
	Apr 2019	0.03	<0.01	<0.01	<0.01	0.5	0.5	0.5	0.08	0.04	5
	May 2019	0.02	<0.01	<0.01	0.02	0.7	0.7	0.7	0.03	<0.01	7
	Dec 2020	<0.01	<0.02	<0.02	<0.05**	N/A	0.7	0.7	0.04	0.01	2.5
	Jan 2021	<0.01	<0.02	<0.02	<0.05**	N/A	1.4	1.4	0.15	0.03	2.5
	Feb 2021	No access									
	Mar 2021*	No access									
	Apr 2021	0.06	<0.02	0.73	0.73	N/A	0.5	1.23	0.1	0.07	5
	Early May 2021	0.04	<0.02	1.3	1.3	N/A	0.7	2	0.08	0.04	2.5
	Late May 2021	<0.01	<0.02	0.94	0.94	N/A	<0.2	0.94	0.09	0.02	2.5
	Jun 2021	0.005	0.01	0.15	0.15	N/A	1.4	1.55	0.06	0.13	2.5
	Jul 2021	0.02	0.01	0.27	0.28	N/A	0.3	0.58	0.05	0.12	2.5
	Aug 2021	0.01	0.01	0.51	0.51	N/A	0.1	0.51	0.04	0.09	2.5
	Sep 2021	0.02	0.01	0.12	0.12	N/A	0.7	0.82	0.02	0.05	2.5
	Oct 2021	0.02	0.01	0.24	0.24	N/A	0.5	0.74	0.05	0.09	2.5
	Nov 2021	0.03	0.01	0.24	0.24	N/A	0.61	0.85	0.05	0.07	2.5

Nutrients (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low flow		0.02	-	-	0.010	-	-	0.575	0.07	0.02	3
High flow		ID	-	-	0.195	-	-	0.9	0.15	ID	ID
2R	Jun 2018	0.02	<0.01	<0.01	<0.01	0.5	0.5	0.5	0.05	0.01	<1
	Nov 2018	<0.01	<0.01	0.02	0.02	0.5	0.5	0.5	0.015	0.04	5
	Feb 2019	0.03	<0.01	0.16	0.16	0.6	0.6	0.8	0.16	0.13	2
	Apr 2019	0.02	<0.01	<0.01	<0.01	0.4	0.4	0.4	0.06	0.03	4
	Dec 2020	<0.01	<0.02	<0.02	<0.05	N/A	0.6	0.6	0.04	0.03	2.5
	Jan 2021	0.01	<0.02	<0.02	<0.05	N/A	0.9	0.9	0.16	0.03	2.5
	Feb 2021	No access									
	Mar 2021*	No access									
	Apr 2021	0.06	<0.02	0.74	0.74	N/A	0.9	1.64	0.09	0.06	5
	Early May 2021	0.03	<0.02	1.3	1.3	N/A	<0.2	1.3	0.08	0.04	2.5
	Late May 2021	0.02	<0.02	0.96	0.98	N/A	<0.2	0.98	0.07	0.03	2.5
	Jun 2021	0.005	0.01	0.14	0.14	N/A	1.3	1.44	0.12	0.07	6.2
	Jul 2021	0.02	0.01	0.27	0.28	N/A	0.1	0.28	0.14	0.06	2.5
	Aug 2021	0.02	0.01	0.51	0.51	N/A	0.1	0.51	0.09	0.04	2.5
	Sep 2021	0.02	0.01	0.12	0.12	N/A	0.3	0.42	0.05	0.02	2.5
	Oct 2021	0.01	0.01	0.24	0.25	N/A	1.1	1.35	0.09	0.06	2.5
	Nov 2021	0.02	0.01	0.27	0.27	N/A	0.46	0.73	0.06	0.06	2.5

Source: ANZG, 2018; DES, 2020b; ELA 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

ID = Insufficient data for determination of water quality objective

* = High flow event

** = WQO < LOR

Table 5.10 Water quality results for Sites 2 and 2R in the Macintyre Barwon Floodplain – dissolved metals

Dissolved metals (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
Site	Sampling event								
2	Jun 2018	Not sampled							
	Nov 2018	0.003	<0.0001	<0.001	0.002	<0.001	0.002	<0.005	<0.0001**
	Feb 2019	0.004	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.003	<0.0001	<0.001	0.001	<0.001	0.003	<0.005	<0.0001**
	May 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Dec 2020	0.003	< 0.0002	< 0.001	< 0.001	< 0.001	0.003	< 0.005	<0.0001**
	Jan 2021	0.004	< 0.0002	< 0.001	< 0.001	< 0.001	0.004	< 0.005	<0.0001**
	Feb 2021	No access							
	Mar 2021*	No access							
	Apr 2021	0.005	< 0.0002	0.001	0.004	< 0.001	0.003	< 0.005	<0.0001**
	Early May 2021	0.004	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Late May 2021	0.004	< 0.0002	< 0.001	0.001	< 0.001	0.002	< 0.005	<0.0001**
	Jun 2021	0.002	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005
	Jul 2021	0.002	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005
	Aug 2021	0.003	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005
	Sep 2021	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	0.005
	Oct 2021	0.003	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005
	Nov 2021	0.004	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005

Dissolved metals (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
2R	Jun 2018	0.002	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Nov 2018	0.003	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Feb 2019	0.004	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.003	<0.0001	<0.001	0.001	<0.001	0.002	<0.005	<0.0001**
	Dec 2020	0.004	< 0.0002	< 0.001	< 0.001	< 0.001	0.003	< 0.005	<0.0001**
	Jan 2021	0.004	< 0.0002	< 0.001	< 0.001	< 0.001	0.004	< 0.005	<0.0001**
	Feb 2021	No access							
	Mar 2021*	No access							
	Apr 2021	0.004	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Early May 2021	0.003	< 0.0002	< 0.001	0.001	< 0.001	0.002	< 0.005	<0.0001**
	Late May 2021	0.004	< 0.0002	< 0.001	0.001	< 0.001	0.002	< 0.005	<0.0001**
	Jun 2021	0.002	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	<0.005**
	Jul 2021	0.002	<0.0002	0.001	0.003	<0.001	<0.0001	0.002	<0.005
	Aug 2021	0.003	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	0.006
	Sep 2021	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	<0.005**
	Oct 2021	0.004	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Nov 2021	0.004	<0.0002	<0.001	0.003	<0.001	<0.0001	0.004	<0.005**

Source: ANZG 2018, ELA 2019

Table notes:

Orange shading where value is above WQO or outside WQO range where applicable. All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = WQO < LOR

Lower Macintyre Brook (Sites 3 to 8)

Water quality at sites in the Lower Macintyre Brook water type zone was characterised by low DO saturation, high salinity, low pH and simultaneously elevated turbidity and total suspended solids. In contrast to the Macintyre Barwon Floodplain sites, the Lower Macintyre Brook water sites demonstrated higher impact from the reduced flow environmental conditions throughout the impact assessment area.

Physico-chemical parameters (Table 5.11) presented WQO exceedances of pH, DO, Turbidity and TSS in most cases and EC exceedances in half of the samples.

Nutrient data also demonstrated exceedances of ammonia NO_x, Total N, through the majority of samples (Table 5.12). Total P concentrations were above WQOs in about 50% of the samples and Reactive P exceedance levels were recorded several times. This may reflect low flow conditions.

Dissolved metal concentrations (Table 5.13) were below laboratory detection limits for cadmium, and zinc. Several exceedances for copper were noted, potentially due to applications of herbicides or fertilisers containing copper sulphates. Mercury exceeded WQOs between July and October 2021.

The concentration of PAHs was below the laboratory level of detection at all sites for all sampling events.

Table 5.11 Water quality results for Sites 3, 6 and 7 in the Lower Macintyre Brook – physico-chemical

Guideline		pH	Temp (°C)	DO (% Sat)	EC (µS/cm)	Salinity (mg/L)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.4 to 8.0	-	60 to 110	370	-	11	10	-	-	-
High Flow		7.2 to 8.0	-	60 to 110	250	-	25	25	-	-	-
Site	Sampling event										
3	Jun 2018	5.58	10.7	46.1	383	0.2	9.7	<5	11	10	69
	Nov 2018	7.33	23.8	89.1	406	0.19	6.5	<5	14	10	76
	Feb 2019	6.65	25.1	50.1	357	0.19	6.9	8	15	10	79
	Apr 2019	7.77	19.6	63.4	423	0.20	14.7	12	20	12	99
	Dec 20	7.56	23.1	63.2	420	200	8	12	N/A	N/A	94
	Jan 21	6.78	25.2	29.2	200	97	87	39	N/A	N/A	52
	Feb 21	7.17	91	25.9	210	160	7.9	9.9	N/A	N/A	31
	Mar 21*	No access									
	Apr 21	7.18	18.8	77.7	230	110	38	24	N/A	N/A	50
	Early May 21	7.24	16.6	52.2	340	187	16	14	N/A	N/A	21
	Late May 21	7.37	13.7	56.6	350	210	12	6.4	N/A	N/A	60
	Jun 21	7.55	N/A	81.1	420	N/A	11	32	N/A	N/A	N/A
	Jul 21	7.31	N/A	87.5	200	N/A	35	9.1	N/A	N/A	N/A
	Aug 21	7.34	N/A	61.9	310	N/A	15	42	N/A	N/A	N/A
	Sep 21	7.25	N/A	59.1	310	N/A	4.2	21	N/A	N/A	N/A
	Oct 21	7.16	N/A	57.7	360	N/A	12	16	N/A	N/A	N/A
	Nov 21	7.11	N/A	76.3	210	N/A	69	9.3	N/A	N/A	N/A
6	Jun 2018	7.97	10.2	52.7	334	0.17	17.2	20 ¹	9	8	55
	Nov 2018	7.08	21.0	51.4	427	0.2	20.8	14	15	10	79
	Feb 2019	7.20	25.1	49.7	389	0.20	15.1	12	16	10	81
	Apr 2019	7.45	18.4	53.1	433	0.21	13.7	10	20	12	99

Guideline		pH	Temp (°C)	DO (% Sat)	EC (µS/cm)	Salinity (mg/L)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.4 to 8.0	-	60 to 110	370	-	11	10	-	-	-
High Flow		7.2 to 8.0	-	60 to 110	250	-	25	25	-	-	-
	Dec 20	7.74	22.9	58.8	360	170	13	18	N/A	N/A	84
	Jan 21	6.8	23.4	10.9	280	130	44	16	N/A	N/A	72
	Feb 21	7.03	135.9	25.2	420	120	17	14	N/A	N/A	92
	Mar 21*	6.08	22.8	52.6	90	200	320	240	N/A	N/A	12
	Apr 21	7.03	18.4	67.2	240	120	22	27	N/A	N/A	48
	Early May 21	7.23	16.2	50.3	380	209	29	25	N/A	N/A	26
	Late May 21	7.5	13.3	56.6	470	280	18	10	N/A	N/A	47
	Jun 21	7.45	N/A	74.3	260	N/A	16	39	N/A	N/A	N/A
	Jul 21	7.18	N/A	76.7	230	N/A	30	17	N/A	N/A	N/A
	Aug 21	7.3	N/A	59.1	310	N/A	18	52	N/A	N/A	N/A
	Sep 21	7.44	N/A	58.9	410	N/A	10	22	N/A	N/A	N/A
	Oct 21	7.23	N/A	55.6	350	N/A	23	29	N/A	N/A	N/A
	Nov 21	6.56	N/A	62.3	210	N/A	62	8.1	N/A	N/A	N/A
7	Jun 2018	7.80	10.3	48.7	337	0.17	18.0	18	9	9	60
	Nov 2018	7.46	25.2	76.3	434	0.2	15.0	9	15	10	79
	Feb 2019	7.29	26.6	55.3	409	0.21	12.2	12	17	11	88
	Apr 2019	7.64	19.2	51.2	430	0.21	8.2	6	21	12	102
	May 2019	7.55	16.8	79.3	449	0.21	7.3	6	19	11	93
	Dec 20	7.73	23.1	94	320	150	120	14	N/A	N/A	160
	Jan 21	7.29	30.1	96.5	340	160	16	24	N/A	N/A	88
	Feb 21	7.21	83.1	26.1	360	230	22	18	N/A	N/A	91
	Mar 21*	5.8	22.2	60.1	73	180	390	280	N/A	N/A	19
	Apr 21	7.07	18.9	68.3	230	110	26	28	N/A	N/A	47

Guideline		pH	Temp (°C)	DO (% Sat)	EC (µS/cm)	Salinity (mg/L)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.4 to 8.0	-	60 to 110	370	-	11	10	-	-	-
High Flow		7.2 to 8.0	-	60 to 110	250	-	25	25	-	-	-
	Early May 21	7.25	17.1	63.8	390	215	120	14	N/A	N/A	34
	Late May 21	7.27	14.3	47.5	410	250	16	24	N/A	N/A	65
	Jun 21	7.51		84.6	240	N/A	14	36	N/A	N/A	N/A
	Jul 21	7.16		83.2	210	N/A	35	7.1	N/A	N/A	N/A
	Aug 21	7.01		65.6	320	N/A	15	46	N/A	N/A	N/A
	Sep 21	7.47		76.3	370	N/A	2	17	N/A	N/A	N/A
	Oct 21	7.2		52.1	330	N/A	15	24	N/A	N/A	N/A
	Nov 21	6.93		70.7	210	N/A	52	8.5	N/A	N/A	N/A

Source: ANZG, 2018; DES, 2020b; ELA 2019

Table notes:

Values outside of all guidelines are shaded orange.

All units mg/L unless stated otherwise.

- = No values available

1 Result was outside the relative percent difference criterion of 35%.

* = High flow event

** = WQO < LOR

Table 5.12 Water quality results for Sites 3, 6 and 7 in the Lower Macintyre Brook – nutrients

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.008	-	-	0.018	-	-	0.71	0.055	0.011	ID
High Flow		ID	-	-	ID	-	-	0.91	0.07	ID	ID
Site	Sampling event										
3	Jun 2018	0.04	<0.01	<0.01	<0.01	0.8	0.8	0.8	0.04	<0.01	<2
	Nov 2018	<0.01**	<0.01	<0.01	<0.01	0.6	0.6	0.6	0.04	<0.01	7
	Feb 2019	0.04	<0.01	<0.01	<0.01	1	1	1	0.06	<0.01	12
	Apr 2019	0.02	<0.01	<0.01	<0.01	1.6	1.6	1.6	0.08	<0.01	65
	Dec 20	0.03	<0.02	<0.02	<0.05	N/A	0.8	0.8	0.4	<0.01	6.4
	Jan 21	0.08	0.04	0.05	0.09	N/A	1.9	1.99	0.19	0.03	5.3
	Feb 21	0.25	<0.02	<0.02	<0.05	N/A	1	1	0.06	0.02	8
	Mar 21*	No access									
	Apr 21	0.03	0.06	0.33	0.39	N/A	0.3	0.69	0.09	0.05	5
	Early May 21	0.03	<0.02	0.14	0.15	N/A	0.5	0.65	0.06	0.01	17
	Late May 21	0.01	<0.02	0.11	0.12	N/A	<0.2	<0.2	0.04	<0.01	2.5
	Jun 21	0.005	0.01	0.01	0.025	N/A	1.7	1.7	0.03	0.005	19
	Jul 21	0.005	0.01	0.4	0.41	N/A	0.8	1.21	0.09	0.03	2.5
	Aug 21	0.005	0.01	0.35	0.35	N/A	0.1	0.35	0.06	0.01	2.5
	Sep 21	0.05	0.01	0.01	0.025	N/A	1.4	1.4	0.04	0.005	2.5
	Oct 21	0.02	0.01	0.01	0.025	N/A	0.1	0.1	0.03	0.005	2.5
	Nov 21	0.05	0.02	0.2	0.22	N/A	0.45	0.67	0.04	0.03	2.5
6	Jun 2018	0.03	<0.01	0.05	0.05	0.8	0.8	0.8	0.04	<0.01	<2.0
	Nov 2018	<0.01**	<0.01	<0.01	<0.01	0.7	0.7	0.7	0.05	<0.01	4
	Feb 2019	0.05	<0.01	<0.01	<0.01	1.2	1.2	1.2	0.06	<0.01	5
	Apr 2019	0.03	<0.01	<0.01	<0.01	1.1	1.1	1.1	0.04	<0.01	10

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.008	-	-	0.018	-	-	0.71	0.055	0.011	ID
High Flow		ID	-	-	ID	-	-	0.91	0.07	ID	ID
	Dec 20	0.02	<0.02	<0.02	<0.05	N/A	0.7	0.7	0.02	<0.01	2.5
	Jan 21	0.06	0.04	0.06	0.1	N/A	1.6	1.7	0.18	0.02	5.3
	Feb 21	0.14	<0.02	<0.02	<0.05	N/A	1	1	0.05	0.02	9.1
	Mar 21*	0.03	<0.02	0.18	0.18	N/A	2.4	2.58	<0.5**	0.07	2.5
	Apr 21	0.1	<0.02	0.48	0.48	N/A	0.8	1.28	0.09	0.06	5
	Early May 21	0.05	<0.02	0.08	0.08	N/A	0.9	0.98	0.04	0.01	15
	Late May 21	0.06	<0.02	0.09	0.09	N/A	<0.2	<0.2	0.03	<0.01	2.5
	Jun 21	0.005	0.01	0.02	0.025	N/A	1.2	1.2	0.04	0.005	2.5
	Jul 21	0.02	0.01	0.35	0.36	N/A	0.9	1.26	0.08	0.03	2.5
	Aug 21	0.07	0.01	0.37	0.37	N/A	0.1	0.37	0.07	0.02	2.5
	Sep 21	0.07	0.01	0.01	0.025	N/A	1.5	1.5	0.03	0.005	2.5
	Oct 21	0.03	0.02	0.05	0.07	N/A	0.1	0.1	0.04	0.01	2.5
	Nov 21	0.04	0.01	0.17	0.18	N/A	0.44	0.62	0.04	0.02	2.5
7	Jun 2018	0.04	<0.01	0.15	0.15	0.9	0.9	1	0.04	<0.01	<2
	Nov 2018	<0.01**	<0.01	0.02	0.02	0.7	0.7	0.7	0.06	<0.01	5
	Feb 2019	0.05	<0.01	0.03	0.03	1	1	1	0.04	<0.01	6
	Apr 2019	0.03	<0.01	0.09	0.09	1.1	1.1	1.2	0.04	<0.01	14
	May 2019	0.05	<0.01	0.24	0.24	1	1	1.2	0.02	<0.01	7
	Dec 20	<0.01**	<0.02	<0.02	<0.05	N/A	0.8	0.8	0.02	<0.01	2.5
	Jan 21	0.08	0.05	<0.02	0.07	N/A	0.7	0.77	0.18	0.03	5.3
	Feb 21	0.08	<0.02	<0.02	<0.05	N/A	0.7	0.7	0.04	<0.01	6.9
	Mar 21*	0.05	<0.02	0.27	0.27	N/A	0.3	0.57	<0.5**	0.07	2.5
	Apr 21	0.14	<0.02	0.38	0.38	N/A	1.3	1.68	0.08	0.03	5

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.008	-	-	0.018	-	-	0.71	0.055	0.011	ID
High Flow		ID	-	-	ID	-	-	0.91	0.07	ID	ID
	Early May 21	0.05	<0.02	0.14	0.15	N/A	1	1.15	0.04	0.01	43
	Late May 21	0.04	<0.02	0.19	0.19	N/A	<0.2	<0.2	0.06	<0.01	2.5
	Jun 21	0.005	0.01	0.02	0.025	N/A	0.8	0.8	0.04	0.005	2.5
	Jul 21	0.005	0.01	0.39	0.4	N/A	0.9	1.3	0.08	0.03	2.5
	Aug 21	0.04	0.01	0.41	0.41	N/A	0.1	0.41	0.07	0.02	2.5
	Sep 21	0.03	0.01	0.01	0.025	N/A	0.3	0.3	0.03	0.005	2.5
	Oct 21	0.04	0.01	0.05	0.06	N/A	0.5	0.56	0.04	0.01	2.5
	Nov 21	0.04	0.01	0.17	0.18	N/A	0.44	0.62	0.05	0.02	2.5

Source: ANZG, 2018; DES, 2020b; ELA 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

ID = Insufficient data for determination of water quality objective

* = High flow event

** = Value > WQO but < LOR

Table 5.13 Water quality results for Sites 3, 6 and 7 in the Lower Macintyre Brook – dissolved metals

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
Site	Sampling event								
3	Jun 2018	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Nov 2018	0.002	<0.0001	<0.001	0.001	<0.001	<0.001	<0.005	<0.0001**
	Feb 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Dec 20	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Jan 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.005	<0.0001**
	Mar 21*	No access							
	Apr 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Late May 21	0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	<0.005**
	Jul 21	0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	0.005
	Aug 21	0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.001	<0.005**
	Sep 21	0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.001	<0.005**
	Oct 21	0.002	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.006
	Nov 21	0.002	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
6	Jun 2018	0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Nov 2018	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Feb 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Dec 20	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Jan 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<0.0001**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Feb 21	< 0.001	< 0.0002	0.002	0.002	0.002	< 0.001	< 0.005	<0.0001**
	Mar 21*	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.001	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.005	<0.0001**
	Early May 21	0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Late May 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	<0.005**
	Jul 21	0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.001	<0.005**
	Aug 21	0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.001	0.005
	Sep 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.007
	Oct 21	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	<0.005**
	Nov 21	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	<0.005**
7	Jun 2018	0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Nov 2018	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Feb 2019	0.002	<0.0001	<0.001	0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	May 2019	0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Dec 20	0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.005	<0.0001**
	Jan 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.005	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Mar 21*	0.001	< 0.0002	0.001	0.003	0.002	< 0.001	< 0.005	<0.0001**
	Apr 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.001	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Late May 21	0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	<0.005**
	Jul 21	0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	<0.005**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Aug 21	0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.001	<0.005
	Sep 21	0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005**
	Oct 21	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	<0.001	0.062
	Nov 21	0.002	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	<0.005**

Source: ANZG, 2018; ELA, 2019

Table notes:

Orange shading where value is above WQO or outside WQO range where applicable.

All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = WQO < LOR

Canning Creek (Sites 9 to 20)

Water quality at sites in the Canning Creek catchment was characterised by elevated electrical conductivity, turbid waters and instances of alkaline pH observations exceeding local WQO guidelines. Results present a catchment most likely exposed to saline soils, poor riparian vegetation and adjacent grazing land use.

Physico-chemical parameters (Table 5.14) presented WQO exceedances of Turbidity in most cases, EC, TSS and DO exceedances in about 50% of the samples and several elevated levels for pH.

Nutrient parameters (Table 5.15) exhibited WQO exceedances for the majority of samples for the parameters NO_x, Total N, Total P, Reactive P and Ammonia.

Dissolved metal concentrations (Table 5.16) were below laboratory detection limits for cadmium and mercury. Several exceedances for copper were noted, potentially due to applications of herbicides or fertilisers containing copper sulphates. Mercury exceeded WQOs between June and August 2021.

The concentration of PAHs was below the laboratory level of detection at all sites for all sampling events.

Table 5.14 Water quality results for Sites 11, 14, 16 and 18 in Canning Creek and Site 20R in Nicol Creek – physico-chemical

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.2 to 7.8	-	60 to 110	200	-	35	25	-	-	-
High Flow		6.9 to 7.9	-	60 to 110	165	-	50	60	-	-	-
Site	Sampling event										
11	Jun 2018	8.18	10.4	67.6	213	0.15	17	15	11	7	56
	Nov 2018	8.21	23.7	103.1	286	0.13	21	14	13	6	57
	Feb 2019	7.00	25.7	65.0	236	0.12	25	23	12	6	55
	Apr 2019	7.27	16.6	66.0	297	0.14	64	104	16	8	73
	Dec 20	7.77	25.9	71.7	290	140	17	9.6	N/A	N/A	65
	Jan 21	7.12	27.9	76.4	200	95	54	30	N/A	N/A	55
	Feb 21	7.28	73.7	28.3	230	160	6.3	13	N/A	N/A	64
	Mar 21*	6.65	22.6	57.2	80	260	190	160	N/A	N/A	21
	Apr 21	6.93	18.7	44.9	220	110	56	18	N/A	N/A	48
	Early May 21	7	15.4	27.6	270	149	23	18	N/A	N/A	22
	Late May 21	7.13	14.3	32	290	170	63	9	N/A	N/A	49
	Jun 21	7.11	N/A	36.5	250	N/A	200	48	N/A	N/A	N/A
	Jul 21	No access									
	Aug 21	7.39	N/A	46	280	N/A	40	25	N/A	N/A	N/A
	Sep 21	7.12	N/A	55.6	270	N/A	20	23	N/A	N/A	N/A
	Oct 21	7.12	N/A	38.7	410	N/A	11	11	N/A	N/A	N/A
	Nov 21	6.77	N/A	50.7	150	N/A	150	27	N/A	N/A	N/A

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.2 to 7.8	-	60 to 110	200	-	35	25	-	-	-
High Flow		6.9 to 7.9	-	60 to 110	165	-	50	60	-	-	-
14	Jun 2018	7.70	14.7	64.30	160	0.10	44	20	4	7	39
	Nov 2018	8.09	22.5	86.60	248	0.11	37	<5	5	9	50
	Feb 2019	8.19	28.0	101.40	307	0.16	74	39	6	12	64
	Apr 2019	7.46	19.2	61.70	353	0.17	104	44	7	16	83
	Dec 20	Dry at time of sampling									
	Jan 21										
	Feb 21										
	Mar 21*										
	Apr 21										
	Early May 21										
	Late May 21										
	Jun 21										
	Jul 21										
	Aug 21										
	Sep 21										
	Oct 21										
	Nov 21										
16	Jun 2018	7.66	12.6	56.30	184	0.11	147	32	14	4	51
	Nov 2018	7.82	18.8	82.30	382	0.17	161	56	27	8	100
	Feb 2019	8.39	29.4	120.00	636	0.33	259	170	25	12	112
	Apr 2019	7.62	19.5	32.00	1255	0.62	>1000	2170	42	18	179
	Dec 20	No access									

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.2 to 7.8	-	60 to 110	200	-	35	25	-	-	-
High Flow		6.9 to 7.9	-	60 to 110	165	-	50	60	-	-	-
	Jan 21	7.21	27.5	65.5	180	90	110	29	N/A	N/A	68
	Feb 21	7.58	67.9	28	220	150	23	15	N/A	N/A	73
	Mar 21*	6.38	23.5	69.9	130	420	450	320	N/A	N/A	30
	Apr 21	7.16	16.3	37	160	79	83	62	N/A	N/A	49
	Early May 21	7.36	15.6	49.6	180	99	95	13	N/A	N/A	26
	Late May 21	7.59	14	46.1	180	110	90	6.6	N/A	N/A	51
	Jun 21	7.34	N/A	74.3	170	N/A	62	37	N/A	N/A	N/A
	Jul 21	7.32	N/A	66.8	190	N/A	150	25	N/A	N/A	N/A
	Aug 21	7.44	N/A	60.3	200	N/A	110	37	N/A	N/A	N/A
	Sep 21	7.68	N/A	78.2	210	N/A	100	27	N/A	N/A	N/A
	Oct 21	7.54	N/A	69.2	330	N/A	140	67	N/A	N/A	N/A
	Nov 21	6.9	N/A	72.4	150	N/A	180	58	N/A	N/A	N/A
18	Jun 2018	Not Sampled									
	Nov 2018	Not Sampled									
	Feb 2019	7.22	28.4	57.9	311	0.16	60.6	18	28	7	99
	Apr 2019	7.52	19.4	53.7	320	0.15	23.8	8	34	8	118
	May 2019	7.84	16.0	39.7	332	0.15	36.3	14	29	7	101
	Dec 20	Dry at time of sampling									
	Jan 21	7.21	28.8	44.7	180	89	400	130	N/A	N/A	65
	Feb 21	7.47	53.2	29.6	200	190	48	14	N/A	N/A	41
	Mar 21*	6.99	22.7	78.9	120	160	970	700	N/A	N/A	37
	Apr 21	7.7	22.2	66.6	160	79	140	44	N/A	N/A	46

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.2 to 7.8	-	60 to 110	200	-	35	25	-	-	-
High Flow		6.9 to 7.9	-	60 to 110	165	-	50	60	-	-	-
	Early May 21	7.35	15.8	52.7	170	94	140	14	N/A	N/A	24
	Late May 21	7.45	12.1	31.5	170	100	150	13	N/A	N/A	53
	Jun 21	7.26	N/A	55.6	170	N/A	140	36	N/A	N/A	N/A
	Jul 21	7.23	N/A	60	190	N/A	140	18	N/A	N/A	N/A
	Aug 21	7.36	N/A	64	170	N/A	140	19	N/A	N/A	N/A
	Sep 21	7.34	N/A	75.3	160	N/A	170	31	N/A	N/A	N/A
	Oct 21	7.42	N/A	80.4	240	N/A	140	21	N/A	N/A	N/A
	Nov 21	6.97	N/A	69.9	170	N/A	140	34	N/A	N/A	N/A
20R	Jun 2018	Not Sampled									
	Nov 2018	Not Sampled									
	Feb 2019	Not Sampled									
	Apr 2019	7.31	19.9	32.8	154	0.08	8.63	10	19	6	72
	Dec 20	Dry at time of sampling									
	Jan 21										
	Feb 21										
	Mar 21*	7.42	22.4	73.5	220	360	910	750	N/A	N/A	64
	Apr 21	Dry at time of sampling									
	Early May 21										
	Late May 21	8.96	12.4	76.8	590	350	95	12	N/A	N/A	45

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25		-	-	-
Basin Plan											
Low Flow		7.2 to 7.8	-	60 to 110	200	-	35	25	-	-	-
High Flow		6.9 to 7.9	-	60 to 110	165	-	50	60	-	-	-
	Jun 21	Dry at time of sampling									
	Jul 21										
	Aug 21										
	Sep 21										
	Oct 21										
	Nov 21										

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise

- = No values available

* = High flow event

** = WQO < LOR

Table 5.15 Water quality results for Sites 11, 14, 16 and 18 in Canning Creek and Site 20R in Nicol Creek – nutrients

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.001	-	-	0.006	-	-	0.52	0.03	0.008	ID
High Flow		ID	-	-	ID	-	-	0.60	0.04	ID	ID
Site	Sampling event										
11	Jun 2018	0.02	<0.01	0.02	0.02	0.9	0.9	0.9	0.06	<0.01**	<2
	Nov 2018	<0.01**	<0.01	<0.01	<0.01**	1.2	1.2	1.2	0.11	<0.01**	40
	Feb 2019	0.04	<0.01	<0.01	<0.01**	2.2	2.2	2.2	0.15	<0.01**	23
	Apr 2019	0.02	<0.01	<0.01	<0.01**	5.7	5.7	5.7	0.33	<0.01**	460
	Dec 20	<0.01**	<0.02	<0.02	<0.05**	N/A	0.7	0.7	0.05	0.33	6.4
	Jan 21	0.07	0.03	<0.02	<0.05**	N/A	0.6	0.6	0.14	0.02	7.5
	Feb 21	0.03	<0.02	<0.02	<0.05**	N/A	1.2	1.2	0.05	<0.01**	6.9
	Mar 21*	0.04	<0.02	0.33	0.34	N/A	1	1.34	<0.5**	0.04	< 5
	Apr 21	0.05	<0.02	0.06	0.06	N/A	0.8	0.86	0.07	0.02	< 10
	Early May 21	0.07	<0.02	<0.02	<0.05**	N/A	1.1	1.1	0.04	0.02	7.5
	Late May 21	0.11	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.06	<0.01**	8.9
	Jun 21	0.005	0.01	0.01	0.025	N/A	2.8	2.8	8.9	8.9	8.9
	Jul 21	No Access									
	Aug 21	0.005	0.01	0.01	0.025	N/A	0.1	0.1	2.5	2.5	2.5
	Sep 21	0.02	0.01	0.01	0.025	N/A	0.6	0.6	2.5	2.5	2.5
	Oct 21	0.01	0.01	0.01	0.025	N/A	0.7	0.7	2.5	2.5	2.5
	Nov 21	0.16	0.01	0.54	0.55	N/A	0.08	0.63	2.5	2.5	2.5
14	Jun 2018	0.25	<0.01	<0.01	<0.01**	1.0	1.2	1.2	0.03	<0.01**	<1
	Nov 2018	<0.01**	<0.01	<0.01	<0.01**	0.7	0.7	0.7	0.03	<0.01**	3
	Feb 2019	0.05	<0.01	<0.01	<0.01**	1.6	1.6	1.6	0.07	<0.01**	6
	Apr 2019	0.03	<0.01	<0.01	<0.01**	2.3	2.3	2.3	0.10	<0.01**	16

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.001	-	-	0.006	-	-	0.52	0.03	0.008	ID
High Flow		ID	-	-	ID	-	-	0.60	0.04	ID	ID
	Dec 20	Dry at time of sampling									
	Jan 21										
	Feb 21										
	Mar 21*										
	Apr 21										
	Early May 21										
	Late May 21										
	Jun 21										
	Jul 21										
	Aug 21										
	Sep 21										
	Oct 21										
	Nov 21										
16	Jun 2018	0.02	<0.01	<0.01	<0.01**	1.0	1.0	1.0	0.11	<0.01**	<4
	Nov 2018	0.06	<0.01	0.01	0.01	1.3	1.4	1.4	0.17	<0.01**	8
	Feb 2019	0.06	<0.01	0.02	0.02	4.1	4.2	4.2	0.31	<0.01**	54
	Apr 2019	1.50	0.05	0.02	0.07	29.6	31.1	31.2	3.93	<0.01**	545
	Dec 20	No access									
	Jan 21	0.13	0.03	0.09	0.12	N/A	0.7	0.82	0.25	0.07	22
	Feb 21	0.09	<0.02	<0.02	<0.05**	N/A	0.6	0.6	0.07	0.04	7.5
	Mar 21*	0.05	<0.02	2	2.0	N/A	13	15	<0.5**	0.2	< 5
	Apr 21	0.23	<0.02	<0.02	<0.05**	N/A	0.9	0.9	0.15	0.06	< 10
	Early May 21	0.05	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.07	0.03	47

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.001	-	-	0.006	-	-	0.52	0.03	0.008	ID
High Flow		ID	-	-	ID	-	-	0.60	0.04	ID	ID
	Late May 21	<0.01	<0.02	<0.02	<0.05**	N/A	0.2	0.2	0.06	<0.01**	5.3
	Jun 21	0.005	0.01	0.01	0.025	N/A	0.8	0.8	0.05	0.005	5.3
	Jul 21	0.07	0.04	1.4	1.5	N/A	1.3	2.8	0.31	0.14	5
	Aug 21	0.005	0.01	0.01	0.025	N/A	0.1	0.1	0.07	0.02	2.5
	Sep 21	0.04	0.01	0.07	0.07	N/A	1.5	1.57	0.09	0.03	2.5
	Oct 21	0.01	0.01	0.01	0.025	N/A	1.7	1.7	0.05	0.005	9.4
	Nov 21	0.1	0.07	0.6	0.67	N/A	0.33	1	0.1	0.06	2.5
18	Jun 2018	Not Sampled									
	Nov 2018	Not Sampled									
	Feb 2019	0.03	<0.01	<0.01	<0.01**	1.2	1.2	1.2	0.10	<0.01**	7
	Apr 2019	0.02	<0.01	<0.01	<0.01**	0.8	0.8	0.8	0.04	<0.01**	4
	May 2019	0.02	<0.01	<0.01	<0.01**	0.8	0.8	0.8	0.04	<0.01**	5
	Dec 20	Dry at time of sampling									
	Jan 21	0.05	<0.02	0.3	0.3	N/A	0.7	1	0.23	0.08	< 5
	Feb 21	0.06	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.05	0.06	6.4
	Mar 21*	0.08	<0.02	1.3	1.3	N/A	4.6	5.9	<0.5**	0.1	< 5
	Apr 21	0.08	<0.02	0.34	0.35	N/A	0.4	0.75	0.13	0.05	< 10
	Early May 21	0.06	<0.02	0.15	0.15	N/A	<0.2	<0.2	0.05	0.02	7.5
	Late May 21	0.02	<0.02	0.07	0.08	N/A	<0.2	<0.2	0.06	<0.01**	< 5
	Jun 21	0.005	0.01	0.02	0.025	N/A	1.4	1.4	0.05	0.01	8.9
	Jul 21	0.06	0.03	0.92	0.95	N/A	1.8	2.75	0.25	0.14	2.5
	Aug 21	0.02	0.01	0.69	0.69	N/A	0.2	0.89	0.21	0.1	2.5
	Sep 21	0.06	0.01	0.39	0.4	N/A	1.3	1.7	0.14	0.05	2.5

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.001	-	-	0.006	-	-	0.52	0.03	0.008	ID
High Flow		ID	-	-	ID	-	-	0.60	0.04	ID	ID
	Oct 21	0.03	0.01	0.01	0.025	N/A	1.4	1.4	0.12	0.03	2.5
	Nov 21	0.1	0.01	0.16	0.18	N/A	0.71	0.89	0.1	0.07	2.5
20R	Jun 2018	Not Sampled									
	Nov 2018	Not Sampled									
	Feb 2019	Not Sampled									
	Apr 2019	0.02	<0.01	<0.01	<0.01**	1.6	1.6	1.6	0.32	0.10	21
	Dec 20	Dry at time of sampling									
	Jan 21										
	Feb 21										
	Mar 21*	0.15	<0.02	7.8	7.8	N/A	4	11.8	<0.5**	0.25	<5
	Apr 21	Dry at time of sampling									
	Early May 21										
	Late May 21	0.06	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.03	<0.01**	<5
	Jun 21	Dry at time of sampling									
	Jul 21										
	Aug 21										
	Sep 21										
	Oct 21										
	Nov 21										

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

ID = Insufficient data for determination of water quality objective

* = High flow event

** = > WQO < LOR

Table 5.16 Water quality results for Sites 11, 14, 16 and 18 in Canning Creek and Site 20R in Nicol Creek – dissolved metals

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
Site	Sampling event								
11	Jun 2018	0.001	<0.0001	<0.001	<0.001	<0.001	0.001	<0.005	<0.0001**
	Nov 2018	0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Feb 2019	0.003	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Dec 20	0.003	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	0.006	<0.0001**
	Jan 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Mar 21*	< 0.001	< 0.0002	0.002	0.003	0.002	< 0.001	< 0.005	<0.0001**
	Apr 21	0.002	< 0.0002	0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Late May 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	0.011
	Jul 21	No access							
	Aug 21	0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	0.006
	Sep 21	0.002	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Oct 21	0.002	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	<0.005**
	Nov 21	0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.004	<0.005**
14	Jun 2018	<0.001	<0.0001	<0.001	<0.001	<0.001	0.001	<0.005	<0.0001**
	Nov 2018	0.001	<0.0001	<0.001	<0.001	<0.001	0.001	<0.005	<0.0001**
	Feb 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21								

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Feb 21								
	Mar 21*								
	Apr 21								
	Early May 21								
	Late May 21								
	Jun 21								
	Jul 21								
	Aug 21								
	Sep 21								
	Oct 21								
	Nov 21								
16	Jun 2018	<0.001	<0.0001	<0.001	<0.001	<0.001	0.001	<0.005	<0.0001**
	Nov 2018	0.001	<0.0001	<0.001	0.002	<0.001	0.002	<0.005	<0.0001**
	Feb 2019	0.003	<0.0001	<0.001	0.002	<0.001	0.002	<0.005	<0.0001**
	Apr 2019	0.004	<0.0001	<0.001	0.002	<0.001	0.009	<0.005	<0.0001**
	Dec 20	No access							
	Jan 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Feb 21	0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Mar 21*	0.001	< 0.0002	< 0.001	0.003	0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	0.001	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.001	0.006
	Aug 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Sep 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005**
	Oct 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005**
	Nov 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005**
18	Jun 2018	Not Sampled							
	Nov 2018	Not Sampled							
	Feb 2019	0.002	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.0001**
	Apr 2019	0.001	<0.0001	<0.001	0.001	<0.001	0.002	<0.005	<0.0001**
	May 2019	<0.001	<0.0001	<0.001	0.001	<0.001	0.002	<0.005	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21	0.001	< 0.0002	< 0.001	0.002	< 0.001	0.002	< 0.005	<0.0001**
	Feb 21	0.001	< 0.0002	< 0.001	0.001	< 0.001	0.002	< 0.005	<0.0001**
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.002	0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	0.003	< 0.001	0.002	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.003	< 0.001	0.003	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.003	< 0.001	0.002	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.001	0.034
	Aug 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	0.01
	Sep 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	<0.005**
	Oct 21	0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	<0.005**
	Nov 21	0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	<0.005**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
20R	Jun 2018	Not Sampled							
	Nov 2018	Not Sampled							
	Feb 2019	Not Sampled							
	Apr 2019	0.003	<0.0001	<0.001	<0.001	<0.001	0.004	0.008	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21								
	Feb 21								
	Mar 21*	0.001	< 0.0002	< 0.001	0.003	< 0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	Dry at time of sampling							
	Early May 21								
	Late May 21	0.001	< 0.0002	< 0.001	0.006	< 0.001	0.003	< 0.005	<0.0001**
	Jun 21	Dry at time of sampling							
	Jul 21								
	Aug 21								
	Sep 21								
	Oct 21								
	Nov 21								

Source: ANZG, 2018; ELA, 2019

Table notes:

Orange shading where value is above WQO or outside WQO range where applicable. All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = WQO < LOR

5.2.3.2 Condamine River basin

Southern Condamine (Sites 21 to 26)

Water quality at sites in the Southern Condamine River catchment was characterised by turbid, saline waters low in oxygen and instances of alkaline pH levels. General WQO exceedances for most physico-chemical and nutrient parameters present poor water quality for Southern Condamine sites. Potential impacts through the combined factors of reduce flow, sparse riparian vegetation, adjacent landuse and soils likely contribute to the poor WQ.

Physico-chemical parameters (Table 5.17) presented WQO exceedances for all parameters with an established WQO (pH, EC, DO, Turbidity and TSS) in most cases.

Nutrient data also demonstrated exceedances of Ammonia, NOx, Total N, Total P and reactive P through the majority of samples (Table 5.18). Chlorophyll a concentrations were above WQOs in about 50% of the samples.

Dissolved metal concentrations (Table 5.19) were below laboratory detection limits for cadmium and mercury. Copper concentrations were exceeding WQOs in the majority of the samples, potentially due to applications of herbicides or fertilisers containing copper sulphates. One Lead exceedance was recorded at site 24. Mercury exceeded WQOs between June and September 2021.

The concentration of PAHs was below the laboratory level of detection at all sites for all sampling events.

Table 5.17 Water quality results for Sites 23 and 24 in the Southern Condamine – physico-chemical

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low Flow		7.2 to 7.9	-	60 to 110	170	-	9	8	-	-	-
High Flow		7.0 to 7.6	-	60 to 110	160	-	25	17	-	-	-
Site	Sampling event										
23	Jun 2018	Not Sampled									
	Nov 2018	Not Sampled									
	Feb 2019	7.18	32.0	84.70	267	0.14	8.0	8	23	8	90
	Apr 2019	7.38	19.3	68.60	290	0.14	31.1	18	30	10	116
	Dec 20	Dry at time of sampling									
	Jan 21	6.79	24.5	1.1	190	92	190	34	N/A	N/A	50
	Feb 21	7.96	45.9	31.7	250	160	87	56	N/A	N/A	72
	Mar 21*	6.98	21	56.8	130	360	440	360	N/A	N/A	35
	Apr 21	9.29	20.5	207.2	290	140	54	35	N/A	N/A	50
	Early May 21	7.91	16.5	83	300	165	58	10	N/A	N/A	33
	Late May 21	7.86	14	19.2	280	170	59	30	N/A	N/A	63
	Jun 21	8.5	N/A	149.1	290	N/A	36	55	N/A	N/A	N/A
	Jul 21	7.01	N/A	67.6	220	N/A	130	19	N/A	N/A	N/A
	Aug 21	7.81	N/A	74.6	210	N/A	130	61	N/A	N/A	N/A
	Sep 21	8.27	N/A	111.9	210	N/A	100	39	N/A	N/A	N/A
	Oct 21	Not representative									
	Nov 21	7.81		92.6	200		140	21	N/A	N/A	

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low Flow		7.2 to 7.9	-	60 to 110	170	-	9	8	-	-	-
High Flow		7.0 to 7.6	-	60 to 110	160	-	25	17	-	-	-
24	Jun 2018	7.77	7.9	45.90	345	0.16	239	98	14	11	80
	Nov 2018	8.18	30.9	89.50	580	0.27	251	194	27	18	142
	Feb 2019	7.42	27.2	47.80	281	0.14	135	60	13	8	65
	Apr 2019	Not Sampled									
	Dec 20	Dry at time of sampling									
	Jan 21	8.48	32.6	157.3	200	97	270	56	N/A	N/A	42
	Feb 21	8.27	35.1	32.3	230	180	110	41	N/A	N/A	58
	Mar 21*	6.95	22.8	17.8	120	300	300	110	N/A	N/A	32
	Apr 21	7.11	19.9	39	170	83	84	85	N/A	N/A	37
	Early May 21	7.13	16.8	28.4	180	99	130	39	N/A	N/A	22
	Late May 21	7.28	14.5	26.5	200	120	250	48	N/A	N/A	44
	Jun 21	7.2	N/A	64.5	190	N/A	260	100	N/A	N/A	N/A
	Jul 21	7.01	N/A	78.1	160	N/A	130	39	N/A	N/A	N/A
	Aug 21	7.09	N/A	53.2	160	N/A	160	190	N/A	N/A	N/A
	Sep 21	7.2	N/A	60.1	150	N/A	180	140	N/A	N/A	N/A
	Oct 21	7.22	N/A	68.5	220	N/A	290	150	N/A	N/A	N/A
	Nov 21	6.85	N/A	43.4	210	N/A	460	73	N/A	N/A	N/A

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise

- = No values available

* = High flow event

** = WQO < LOR

Table 5.18 Water quality results for Sites 23 and 24 in the Southern Condamine – nutrients

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.006	-	-	0.003	-	-	0.595	0.045	0.015	5
High Flow		ID	-	-	ID	-	-	0.830	0.060	0.020	ID
Site	Sampling event										
23	Jun 2018	Not Sampled									
	Nov 2018	Not Sampled									
	Feb 2019	0.03	<0.01	<0.01	<0.01	1.4	1.4	1.4	0.10	0.02	2
	Apr 2019	0.02	<0.01	<0.01	<0.01	0.9	0.9	0.9	0.06	<0.01	7
	Dec 20	Dry at time of sampling									
	Jan 21	0.12	0.06	0.02	0.08	N/A	1	1.08	0.25	0.06	2.5
	Feb 21	0.08	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.07	0.01	20
	Mar 21*	0.1	<0.02	3.4	3.4	N/A	1.2	4.6	<0.5**	0.2	2.5
	Apr 21	0.08	<0.02	0.11	0.11	N/A	0.8	0.91	0.12	0.07	5
	Early May 21	0.03	<0.02	0.03	<0.05**	N/A	<0.2	<0.2	0.07	0.02	2.5
	Late May 21	0.04	<0.02	0.03	<0.05**	N/A	<0.2	<0.2	0.09	<0.01	2.5
	Jun 21	0.005	0.01	0.01	0.025	N/A	1	1	0.15	0.005	91
	Jul 21	0.04	0.04	2	2.1	N/A	0.7	2.8	0.23	0.13	2.5
	Aug 21	0.01	0.01	0.3	0.3	N/A	0.1	0.3	0.1	0.03	6
	Sep 21	0.07	0.01	0.04	0.025	N/A	2.1	2.1	0.1	0.02	2.5
	Oct 21	Not representative									
	Nov 21	0.07	0.01	0.01	0.025	N/A	0.6	0.6	0.13	0.03	2.5

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.006	-	-	0.003	-	-	0.595	0.045	0.015	5
High Flow		ID	-	-	ID	-	-	0.830	0.060	0.020	ID
24	Jun 2018	0.04	<0.01	<0.01	<0.01**	0.5	0.5	0.5	0.07	<0.01	<4
	Nov 2018	0.08	<0.01	0.01	0.01	4.1	4.2	4.2	0.51	0.03	28
	Feb 2019	0.04	<0.01	<0.01	<0.01**	1.8	1.8	1.8	0.35	0.07	9
	Apr 2019	Not Sampled									
	Dec 20	Dry at time of sampling									
	Jan 21	0.2	0.14	<0.02	0.16	N/A	1.2	1.36	0.29	0.06	8.5
	Feb 21	0.13	<0.02	<0.02	<0.05	N/A	<0.2	<0.2	0.13	0.03	5.3
	Mar 21*	0.05	<0.02	0.95	0.95	N/A	0.6	1.55	<0.5**	0.27	2.5
	Apr 21	0.09	<0.02	<0.02	<0.05	N/A	9.5	9.5	0.32	0.21	5
	Early May 21	0.07	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.28	0.09	15
	Late May 21	0.02	<0.02	0.14	0.15	N/A	<0.2	<0.2	0.32	0.08	2.5
	Jun 21	0.005	0.01	0.08	0.08	N/A	0.1	0.1	0.29	0.03	2.5
	Jul 21	0.04	0.03	0.25	0.28	N/A	0.8	1.08	0.23	0.06	2.5
	Aug 21	0.05	0.01	0.01	0.025	N/A	0.5	0.5	0.18	0.04	2.5
	Sep 21	0.09	0.01	0.04	0.07	N/A	1.3	1.37	0.21	0.03	2.5
	Oct 21	0.05	0.01	0.025	0.025	N/A	0.01	0.1	0.24	0.02	5.3
	Nov 21	0.01	0.01	5	5	N/A	0.025	5	0.37	0.13	2.5

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

ID = Insufficient data for determination of water quality objective

* = High flow event

** = WQO < LOR

Table 5.19 Water quality results for Sites 23 and 24 in the Southern Condamine – dissolved metals

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
Site	Sampling event								
23	Jun 2018	Not Sampled							
	Nov 2018	Not Sampled							
	Feb 2019	0.003	<0.0001	<0.001	<0.001	<0.001	0.001	<0.005	<0.0001**
	Apr 2019	0.002	<0.0001	<0.001	<0.001	<0.001	0.003	<0.005	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21	0.002	< 0.0002	< 0.001	0.003	< 0.001	0.004	< 0.005	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.003	0.008	<0.0001**
	Mar 21*	< 0.001	< 0.0002	0.001	0.002	0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	0.002	< 0.0002	< 0.001	0.003	< 0.001	0.003	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Late May 21	0.001	< 0.0002	< 0.001	0.002	< 0.001	0.004	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	0.02
	Aug 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.003	0.007
	Sep 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.004	0.017
	Oct 21	Not representative							
	Nov 21	0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.004	<0.005**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
24	Jun 2018	<0.001	<0.0001	<0.001	0.001	<0.001	0.005	<0.005	<0.0001**
	Nov 2018	0.002	<0.0001	<0.001	0.004	<0.001	0.006	<0.005	<0.0001**
	Feb 2019	0.003	<0.0001	<0.001	0.001	0.006	<0.001	<0.005	<0.0001**
	Apr 2019	Not Sampled							
	Dec 20	Dry at time of sampling							
	Jan 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.005	< 0.005	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	0.001	< 0.001	0.005	< 0.005	<0.0001**
	Mar 21*	< 0.001	< 0.0002	0.002	0.003	0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	0.002	< 0.0002	< 0.001	0.004	< 0.001	0.005	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.003	< 0.001	0.005	< 0.005	<0.0001**
	Late May 21	0.001	< 0.0002	< 0.001	0.003	< 0.001	0.006	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	0.012
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	<0.005**
	Aug 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.005	<0.005**
	Oct 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.005	<0.005**
	Nov 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**

Source: ANZG, 2018; ELA, 2019

Table notes:

Orange shading where value is above WQO or outside WQO range where applicable. All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = WQO < LOR

Central Condamine (Sites 27 to 33)

Water quality at sites in the Central Condamine River catchment was characterised by turbid waters and instances of alkaline waters. Significant oversaturation of DO and an increase in chlorophyll a concentration was noted from Sites 27 and 28 during February 2019 indicating potential diurnal fluxes in surface water DO concentrations due to algal growth. Exceedances in chlorophyll a across most of the sampled sites aligns with the majority of exceedances noted in ammonia, total nitrogen and total phosphorus.

Physico-chemical parameters (Table 5.20) presented Turbidity and TSS concentrations above WQOs approximately 50% of the time and several exceedances were recorded for pH, DO and EC.

Nutrient parameters (Table 5.21). exhibited WQO exceedances for Ammonia, Total N, Total P and Reactive P for the majority of samples. NOx concentration exceeded WQOs approximately 50% of the time and Chlorophyll a levels presented several elevations.

Dissolved metal concentrations (Table 5.22) were below laboratory detection limits for cadmium, chromium, lead and mercury. Copper concentrations were exceeding WQOs in the majority of samples, potentially due to applications of herbicides or fertilisers containing copper sulphates. Lead exceedances were recorded at sites 28, 29 and 32. Zinc exceedances were recorded at sites 27, 30, 32 and 33. Nickel exceedances were documented at sites 28, 29 and 32. Mercury exceedances were recorded in June and September at sites 27 and 30.

The concentration of PAHs was below the laboratory level of detection at all sites for all sampling events.

Table 5.20 Water quality results for Sites 27, 28, 30, 32 and 33 in the Central Condamine – physico-chemical

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low Flow		7.4 to 8.3	-	60 to 110	890	-	25	25	-	-	-
High Flow		7.0 to 7.6	-	60 to 110	290	-	220	130	-	-	-
Site	Sampling event										
27	Jun 2018	8.50	10.0	85.0	352	0.28	51.8	28	40	24	199
	Nov 2018	Not sampled									
	Feb 2019	8.34	30.3	134.1	503	0.26	87.5	74	37	25	195
	Apr 2019	7.72	17.2	50.6	233	0.11	671	214	21	12	102
	Dec 20	Dry at time of sampling									
	Jan 21	7.57	29	80.2	220	110	23	20	N/A	N/A	76
	Feb 21	8.87	63.8	27.9	330	190	75	61	N/A	N/A	110
	Mar 21*	6.61	21.8	72.9	160	300	670	330	N/A	N/A	72
	Apr 21	7.87	19.8	89.9	220	110	79	98	N/A	N/A	69
	Early May 21	8.47	17.1	87.2	270	149	17	18	N/A	N/A	37
	Late May 21	8.73	17.6	94.5	280	170	63	31	N/A	N/A	84
	Jun 21	8.49	N/A	106	330	N/A	11	32	N/A	N/A	N/A
	Jul 21	7.38	N/A	91.2	290	N/A	84	42	N/A	N/A	N/A
	Aug 21	8.21	N/A	93.3	370	N/A	6	27	N/A	N/A	N/A
	Sep 21	8.64	N/A	101.6	370	N/A	1.5	24	N/A	N/A	N/A
	Oct 21	7.28	N/A	74.2	130	N/A	3600	1600	N/A	N/A	N/A
	Nov 21	7.53	N/A	76.8	280	N/A	180	32	N/A	N/A	N/A

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low Flow		7.4 to 8.3	-	60 to 110	890	-	25	25	-	-	-
High Flow		7.0 to 7.6	-	60 to 110	290	-	220	130	-	-	-
28	Jun 2018	Not sampled									
	Nov 2018	Not sampled									
	Feb 2019	9.13	35.2	233.6	519	0.27	75.6	73	26	22	156
	Apr 2019	7.93	23.1	21.1	315	0.15	477	175	30	18	149
29	Jun 2018	Not sampled									
	Nov 2018	Not sampled									
	Feb 2019	Not sampled									
	Apr 2019	8.04	22.0	35.0	307	0.14	77.8	48	33	23	177
	Dec 20	Dry at time of sampling									
	Jan 21										
	Feb 21										
	Mar 21*	No access									
	Apr 21	7.5	19	70.2	240	120	21	38	N/A	N/A	79
	Early May 21	7.49	18	46.7	260	143	24	16	N/A	N/A	41
	Late May 21	7.47	14.8	26.1	230	140	69	15	N/A	N/A	62
	Jun 21	Not representative									
	Jul 21										
	Aug 21	Dry at time of sampling									
	Sep 21										
	Oct 21	Not representative									
	Nov 21	No access									

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low Flow		7.4 to 8.3	-	60 to 110	890	-	25	25	-	-	-
High Flow		7.0 to 7.6	-	60 to 110	290	-	220	130	-	-	-
30	Jun 2018	-	14.3	65.5	356	0.22	30.0	11	29	18	146
	Nov 2018	8.83	28.8	104.6	507	0.24	98.1	63	22	19	133
	Feb 2019	8.45	25.1	59.6	365	0.19	43.0	35	25	16	128
	Apr 2019	7.71	18.7	70.4	449	0.21	95.6	70	34	26	192
	Dec 20	Dry at time of sampling									
	Jan 21	7.83	28.9	93.4	220	110	25	22	N/A	N/A	70
	Feb 21	8.42	105.4	30	270	180	87	84	N/A	N/A	110
	Mar 21*	7.6	22.4	83.9	220	190	100	86	N/A	N/A	55
	Apr 21	7.95	20.7	92.4	220	110	55	84	N/A	N/A	66
	Early May 21	8.54	17.2	87.6	270	149	13	12	N/A	N/A	26
	Late May 21	8.09	14.7	80.6	240	140	83	22	N/A	N/A	47
	Jun 21	8.52	N/A	101.8	330	N/A	9.5	35	N/A	N/A	N/A
	Jul 21	7.66	N/A	95.2	280	N/A	65	23	N/A	N/A	N/A
	Aug 21	8.26	N/A	89.7	370	N/A	4.4	31	N/A	N/A	N/A
	Sep 21	8.37	N/A	105.1	360	N/A	3.2	18	N/A	N/A	N/A
	Oct 21	Not representative									
	Nov 21	7.46	N/A	82.9	260	N/A	170	28	N/A	N/A	N/A
32	Jun 2018	Not sampled									
	Nov 2018	Not sampled									
	Feb 2019	7.80	23.4	82.2	588	0.30	11.5	95	37	27	204
	Apr 2019	Not sampled									

Guideline	pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO	6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan										
Low Flow	7.4 to 8.3	-	60 to 110	890	-	25	25	-	-	-
High Flow	7.0 to 7.6	-	60 to 110	290	-	220	130	-	-	-
	Dec 20	Dry at time of sampling								
	Jan 21									
	Feb 21									
	Mar 21*	6.77	23.6	47.5	180	220	330	150	N/A	74
	Apr 21	7.54	20.3	61.6	220	110	53	58	N/A	67
	Early May 21	7.63	16.6	57.4	290	160	9	4.4	N/A	42
	Late May 21	8.01	15.3	73.4	300	180	43	18	N/A	77
	Jun 21	8.17	N/A	112	340	N/A	13	28	N/A	N/A
	Jul 21	7.59	N/A	90.2	290	N/A	56	13	N/A	N/A
	Aug 21	8.39	N/A	104	370	N/A	12	48	N/A	N/A
	Sep 21	Dry at time of sampling								
	Oct 21									
33	Nov 21	7.32	N/A	69.5	270	N/A	98	29	N/A	N/A
	Jun 2018	Not sampled								
	Nov 2018	7.70	25.2	106.8	212	0.10	42.9	15	12	59
	Feb 2019	Not sampled								
	Apr 2019	Not sampled								
	Dec 20	Dry at time of sampling								
	Jan 21	7.19	25	6.2	360	170	7.7	25	N/A	120
	Feb 21	7.53	18.6	25	430	300	9.2	11	N/A	180
	Mar 21*	No access								
	Apr 21	7.76	20.1	78.5	220	110	44	79	N/A	75
	Early May 21	7.59	17.3	62.8	290	160	3.8	5.4	N/A	30

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low Flow		7.4 to 8.3	-	60 to 110	890	-	25	25	-	-	-
High Flow		7.0 to 7.6	-	60 to 110	290	-	220	130	-	-	-
	Late May 21	8.57	16.4	70.6	290	170	55	22	N/A	N/A	77
	Jun 21	8.11	N/A	106.1	330	N/A	4.1	28	N/A	N/A	N/A
	Jul 21	7.71	N/A	88.3	240	N/A	67	27	N/A	N/A	N/A
	Aug 21	8.27	N/A	111	350	N/A	15	28	N/A	N/A	N/A
	Sep 21	Not representative									
	Oct 21	7.37	N/A	74.5	290	N/A	66	42	N/A	N/A	N/A
	Nov 21	7.41	N/A	78.7	270	N/A	100	34	N/A	N/A	N/A

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = WQO < LOR

Table 5.21 Water quality results for Sites 27, 28, 30, 32 and 33 in the Central Condamine – nutrients

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.004	-	-	0.004	-	-	0.86	0.17	0.02	9
High Flow		ID	-	-	0.480	-	-	2.2	0.95	0.50	4
Site	Sampling event										
27	Jun 2018	0.03	<0.01	<0.01	<0.01	0.90	0.9	0.9	0.11	<0.01	5
	Nov 2018	Not sampled									
	Feb 2019	0.05	<0.01	0.01	0.01	2.20	2.2	2.2	0.23	<0.01	53
	Apr 2019	0.08	<0.01	<0.01	<0.01	1.40	1.5	1.5	0.51	0.04	24
	Dec 20	Dry at time of sampling									
	Jan 21	<0.01**	<0.02	<0.02	<0.05**	N/A	0.9	0.9	0.35	0.16	5.9
	Feb 21	0.28	<0.02	<0.02	<0.05**	N/A	0.4	0.4	0.1	0.05	14
	Mar 21*	0.05	<0.02	1.1	1.1	N/A	<0.2	1.1	<0.5	0.34	2.5
	Apr 21	0.03	<0.02	0.31	0.31	N/A	0.6	0.91	0.25	0.07	5
	Early May 21	<0.01**	<0.02	<0.02	<0.05**	N/A	0.7	0.7	0.11	0.12	2.5
	Late May 21	0.07	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.17	0.08	2.5
	Jun 21	0.03	0.01	0.01	0.025	N/A	1.2	1.2	0.08	0.03	2.5
	Jul 21	0.02	0.01	0.47	0.48	N/A	0.9	1.38	0.29	0.12	5
	Aug 21	0.08	0.01	0.01	0.025	N/A	0.01	0.01	0.08	0.04	2.5
	Sep 21	0.04	0.01	0.01	0.025	N/A	0.4	0.4	0.05	0.03	2.5
	Oct 21	0.15	0.04	1.8	1.8	N/A	3.6	5.4	2.1	0.2	2.5
	Nov 21	0.06	0.16	2.6	2.8	N/A	0.2	3	0.41	0.22	2.5

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan		0.004	-	-	0.004	-	-	0.86	0.17	0.02	9
Low Flow		ID	-	-	0.480	-	-	2.2	0.95	0.50	4
High Flow											
28	Jun 2018	Not sampled									
	Nov 2018	Not sampled									
	Feb 2019	0.07	<0.01	<0.01	<0.01**	5.10	5.2	5.2	0.43	0.02	56
	Apr 2019	0.04	<0.01	<0.01	<0.01**	1.50	1.5	1.5	0.31	0.01	26
29	Jun 2018	Not sampled									
	Nov 2018	Not sampled									
	Feb 2019	Not sampled									
	Apr 2019	0.03	<0.01	<0.01	<0.01**	1.80	1.8	1.8	0.66	0.37	18
	Dec 20	Dry at time of sampling									
	Jan 21										
	Feb 21										
	Mar 21*	No access									
	Apr 21	0.04	<0.02	<0.02	<0.05**	N/A	8	8	0.77	0.88	19
	Early May 21	0.04	<0.02	<0.02	<0.05**	N/A	0.5	0.5	0.89	0.6	9.6
	Late May 21	0.11	<0.05	<0.05	<0.05**	N/A	<0.2	<0.2	0.86	0.56	< 5
	Jun 21	Not representative									
	Jul 21										
	Aug 21										
	Sep 21	Dry at time of sampling									
	Oct 21	Not representative									
	Nov 21	No access									

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.004	-	-	0.004	-	-	0.86	0.17	0.02	9
High Flow		ID	-	-	0.480	-	-	2.2	0.95	0.50	4
30	Jun 2018	0.02	<0.01	<0.01	<0.01**	0.50	0.5	0.5	0.07	<0.01	<2
	Nov 2018	0.10	0.01	0.03	0.04	4.50	4.6	4.6	0.39	0.05	57
	Feb 2019	0.06	<0.01	<0.01	<0.01**	5.10	5.2	5.2	0.43	0.02	50
	Apr 2019	0.03	<0.01	<0.01	<0.01**	3.30	3.3	3.3	0.38	<0.01	72
	Dec 20	Dry at time of sampling									
	Jan 21	0.01	<0.02	<0.02	<0.05**	N/A	1.6	1.6	0.33	0.14	12
	Feb 21	0.36	<0.02	<0.02	<0.05**	N/A	0.8	0.8	0.32	0.2	8.5
	Mar 21*	0.22	<0.02	0.17	0.17	N/A	1	1.17	<0.5	0.18	6.4
	Apr 21	0.03	<0.02	0.3	0.30	N/A	0.9	1.2	0.23	0.19	5
	Early May 21	0.03	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.11	0.08	2.5
	Late May 21	0.03	<0.02	0.47	0.49	N/A	<0.2	0.49	0.21	0.11	2.5
	Jun 21	0.005	0.01	0.01	0.025	N/A	1.2	1.2	0.07	0.03	6.2
	Jul 21	0.02	0.01	0.46	0.48	N/A	0.9	1.38	0.28	0.12	2.5
	Aug 21	0.005	0.01	0.01	0.025	N/A	0.1	0.1	0.07	0.04	2.5
	Sep 21	0.05	0.01	0.01	0.025	N/A	0.6	0.6	0.08	0.05	2.5
	Oct 21	Not representative									
	Nov 21	0.06	0.18	2.2	2.3	N/A	0.3	2.6	0.34	0.22	2.5
32	Jun 2018	Not sampled									
	Nov 2018	Not sampled									
	Feb 2019	0.09	<0.01	<0.01	<0.01	3.70	3.8	3.8	0.43	0.03	90
	Apr 2019	Not sampled									
	Dec 20	Dry at time of sampling									
	Jan 21										

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.004	-	-	0.004	-	-	0.86	0.17	0.02	9
High Flow		ID	-	-	0.480	-	-	2.2	0.95	0.50	4
	Feb 21										
	Mar 21*	0.03	<0.02	0.91	0.91	N/A	<0.2	0.91	<0.5	0.43	2.5.
	Apr 21	0.02	<0.02	0.29	0.29	N/A	0.6	0.89	0.21	0.19	5
	Early May 21	0.03	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.14	0.1	33
	Late May 21	0.02	<0.02	0.32	0.34	N/A	<0.2	0.34	0.18	0.1	5.3
	Jun 21	0.005	0.01	0.01	0.025	N/A	1.4	1.4	0.09	0.02	2.5
	Jul 21	0.02	0.01	0.47	0.48	N/A	0.1	0.48	0.29	0.13	2.5
	Aug 21	0.005	0.01	0.01	0.025	N/A	0.1	0.1	0.11	0.07	2.5
	Sep 21	Dry at time of sampling									
	Oct 21										
	Nov 21	0.03	0.16	2.6	2.8	N/A	0.2	3	0.37	0.23	2.5
33	Jun 2018	Not sampled									
	Nov 2018	0.03	<0.01	<0.01	<0.01**	1.00	1.0	1.0	0.23	0.05	3
	Feb 2019	Not sampled									
	Apr 2019	Not sampled									
	Dec 20	Dry at time of sampling									
	Jan 21	0.16	<0.02	<0.02	<0.05**	N/A	2.5	2.5	0.71	0.44	16
	Feb 21	0.09	<0.02	<0.02	<0.05**	N/A	2.1	2.1	0.3	0.11	11
	Mar 21*	No access									
	Apr 21	0.02	<0.02	0.34	0.34	N/A	9.5	9.84	0.24	0.22	5
	Early May 21	0.02	<0.02	<0.02	<0.05	N/A	<0.2	<0.2	0.16	0.11	8.5
	Late May 21	0.04	0.02	0.22	0.25	N/A	<0.2	0.25	0.18	0.09	2.5
	Jun 21	0.005	0.01	0.01	0.025	N/A	1.9	1.9	0.09	0.03	2.5

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low Flow		0.004	-	-	0.004	-	-	0.86	0.17	0.02	9
High Flow		ID	-	-	0.480	-	-	2.2	0.95	0.50	4
	Jul 21	0.02	0.01	0.49	0.5	N/A	0.5	1	0.3	0.12	2.5
	Aug 21	0.005	0.01	0.01	0.025	N/A	0.1	0.1	0.14	0.08	2.5
	Sep 21	Not Representative									
	Oct 21	0.04	0.03	1	1	N/A	1.9	1.9	0.09	0.03	2.5
	Nov 21	0.04	0.19	2.6	2.8	N/A	0.5	1	0.3	0.12	2.5

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise

- = No values available

ID = Insufficient data for determination of water quality objective

* = High flow event

** = WQO < LOR

Table 5.22 Water quality results for Sites 27, 28, 30, 32 and 33 in the Central Condamine –dissolved metals

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
Site	Sampling event								
27	Jun 2018	<0.001	<0.0001	<0.001	0.002	<0.001	0.006	<0.005	<0.0001**
	Nov 2018	Not sampled							
	Feb 2019	0.002	<0.0001	<0.001	<0.001	<0.001	0.007	<0.005	<0.0001**
	Apr 2019	0.001	<0.0001	<0.001	0.002	<0.001	0.008	<0.005	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.005	< 0.005	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	0.001	< 0.001	0.005	0.03	<0.0001**
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	0.002	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.004	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Aug 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	0.015
	Oct 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	<0.005**
	Nov 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**
28	Jun 2018	Not sampled							
	Nov 2018	Not sampled							
	Feb 2019	0.005	<0.0001	<0.001	0.002	<0.001	0.012	<0.005	<0.0001**
	Apr 2019	0.001	<0.0001	<0.001	0.005	<0.001	0.011	<0.005	<0.0001**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
29	Jun 2018	Not sampled							
	Nov 2018	Not sampled							
	Feb 2019	Not sampled							
	Apr 2019	0.003	<0.0001	<0.001	0.005	<0.001	0.015	<0.005	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21								
	Feb 21								
	Mar 21*	No access							
	Apr 21	0.003	< 0.0002	0.001	0.001	< 0.001	0.008	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.008	< 0.005	<0.0001**
	Late May 21	0.002	< 0.0002	< 0.001	0.002	< 0.001	0.009	< 0.005	<0.0001**
	Jun 21	Not representative							
	Jul 21								
	Aug 21	Dry at time of sampling							
	Sep 21								
	Oct 21	Not representative							
	Nov 21	No access							
30	Jun 2018	<0.001	<0.0001	<0.001	0.001	<0.001	0.003	<0.005	<0.0001**
	Nov 2018	0.002	<0.0001	<0.001	0.003	<0.001	0.004	<0.005	<0.0001**
	Feb 2019	0.001	<0.0001	<0.001	<0.001	<0.001	0.003	<0.005	<0.0001**
	Apr 2019	<0.001	<0.0001	<0.001	0.001	<0.001	0.006	<0.005	<0.0001**
	Dec 20	Dry at time of sampling							
	Jan 21	< 0.001	< 0.0002	< 0.001	0.003	< 0.001	0.004	< 0.005	<0.0001**
	Feb 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.005	0.015	<0.0001**
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	< 0.001	< 0.005	<0.0001**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
32	Apr 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	0.002	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Aug 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	0.023
	Oct 21	Not representative							
	Nov 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**
	Jun 2018	Not sampled							
	Nov 2018	Not sampled							
	Feb 2019	0.003	<0.0001	<0.001	<0.001	<0.001	0.011	<0.005	<0.0001**
	Apr 2019	Not sampled							
	Dec 20	Dry at time of sampling							
	Jan 21								
	Feb 21								
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	0.018	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	0.015
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Aug 21	<0.001	<0.0002	<0.001	0.004	<0.001	<0.0001	0.004	<0.005**
	Sep 21	Dry at time of sampling							
	Oct 21								

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Nov 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**
33	Jun 2018	Not sampled							
	Nov 2018	<0.001	<0.0001	<0.001	0.004	<0.001	0.008	<0.005	<0.0001**
	Feb 2019	Not sampled							
	Apr 2019	Not sampled							
	Dec 20	Dry at time of sampling							
	Jan 21	0.001	< 0.0002	< 0.001	0.002	< 0.001	0.007	0.009	<0.0001**
	Feb 21	0.002	< 0.0002	< 0.001	< 0.001	< 0.001	0.006	< 0.005	<0.0001**
	Mar 21*	No access							
	Apr 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	0.003	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Aug 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**
	Sep 21	Not representative							
	Oct 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**
	Nov 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.005	<0.005**

Source: ANZG, 2018; ELA, 2019

Table notes:

Orange shading where value is above WQO or outside WQO range where applicable

All units mg/L unless stated otherwise.

- = No values available

* = High flow event

** = WQO < LOR

Oakey Creek (Sites 34 to 43)

Water quality at sites in the Oakey Creek catchment was characterised by waters high in salinity and with alkaline pH. Significantly elevated Chlorophyll a levels during 2021 for site 40 suggest eutrophication. Samples depict the catchment as relatively high in organic nutrients whilst most of the Physico-chemical parameter levels were within WQO (apart from site 39).

Physico-chemical parameters (Table 5.23) presented WQO exceedances for EC. Approximately 50% of pH and TSS concentrations exceed WQOs and DO, and Turbidity presented several exceedances.

Nutrient data also demonstrated low flow conditions with exceedances of Ammonia and Total N through the majority of samples (Table 5.24). NOx concentrations were above WQOs in about 50% of the samples. Total P, Reactive P and Chlorophyll a presented several WQO exceedances.

Dissolved metal concentrations (Table 5.25) were below laboratory detection limits for arsenic, cadmium, chromium, lead and mercury. Copper concentrations were exceeding WQOs in in approximately 50 per cent of the samples, potentially due to applications of herbicides or fertilisers containing copper sulphates. Several zinc exceedances were recorded at sites 42. Mercury exceedances were recorded for most sites between June and December.

The concentration of PAHs was below the laboratory level of detection at all sites for all sampling events.

Table 5.23 Water quality results for Sites 39, 40 and 42 in the Oakey Creek – physico-chemical

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low flow		7.7 to 8.3	-	60 to 110	510	-	13	14	-	-	-
High flow		7.4 to 8.1	-	60 to 110	375	-	55	65	-	-	-
Site	Sampling event										
39	Jun 2018	8.12	14.0	75.5	2318	1.25	11.3	8	73	137	746
	Nov 2018	8.36	28.2	121.6	1731	0.86	20.5	14	65	94	549
	Feb 2019	8.54	29.4	148.2	2632	1.48	35.2	30	42	169	801
	Apr 2019	8.24	20.3	106.2	1843	0.92	21.9	20	87	122	720
	Dec 20	No access									
	Jan 21	7.59	23.2	58.8	930	460	20	25	N/A	N/A	280
	Feb 21	8.16	77.3	24.4	1400	780	11	9.9	N/A	N/A	500
	Mar 21*	7.37	23.9	45.9	370	230	150	96	N/A	N/A	110
	Apr 21	7.58	17.7	57.1	1000	490	17	27	N/A	N/A	310
	Early May 21	7.93	14.6	56.6	830	457	45	31	N/A	N/A	96
	Late May 21	7.9	14.4	7.4	1500	900	45	45	N/A	N/A	440
	Jun 21	7.97	N/A	109.4	1500	N/A	11	42	N/A	N/A	N/A
	Jul 21	7.9	N/A	73.9	1700	N/A	3.4	4.8	N/A	N/A	N/A
	Aug 21	8.29	N/A	56.5	2000	N/A	5.3	69	N/A	N/A	N/A
	Sep 21	7.96	N/A	50.3	1900	N/A	33	40	N/A	N/A	N/A
	Oct 21	7.79	N/A	58.8	970	N/A	43	41	N/A	N/A	N/A
	Nov 21	7.49	N/A	39.8	930	N/A	45	87	N/A	N/A	N/A
40	Jun 2018	8.42	10.4	74.6	1320	0.69	8.1	10	51	82	465
	Nov 2018	8.25	24.8	92.0	692	0.33	12.5	9	32	38	236
	Feb 2019	Not Sampled									
	Apr 2019	8.13	20.4	88.6	680	0.33	40.6	26	37	48	290

Guideline	pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO	6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan										
Low flow	7.7 to 8.3	-	60 to 110	510	-	13	14	-	-	-
High flow	7.4 to 8.1	-	60 to 110	375	-	55	65	-	-	-
42	Dec 20	NO access								
	Jan 21	8.39	22.9	118.8	660	320	8.4	13	N/A	210
	Feb 21	Dry at time of sampling								
	Mar 21*	8.34	18.3	93.8	540	310	80	91	N/A	220
	Apr 21	8.54	14.1	92.8	1100	540	3.5	10	N/A	430
	Early May 21	8.39	13.4	82.8	720	396	23	31	N/A	87
	Late May 21	8.66	10.3	83.1	1200	720	4.3	16	N/A	400
	Jun 21	8.54	N/A	88.2	1200		0.5	35	N/A	N/A
	Jul 21	8.58	N/A	89	1400		4	4.8	N/A	N/A
	Aug 21	8.49	N/A	76.9	1000		3.3	26	N/A	N/A
	Sep 21	8.54	N/A	84.9	1100		7.3	18	N/A	N/A
	Oct 21	8.31	N/A	85.4	860		43	63	N/A	N/A
	Nov 21	8.04	N/A	83.3	470		190	2.5	N/A	N/A
42	Jun 2018	8.52	9.80	72.8	1287	0.69	4.6	6	55	471
	Nov 2018	8.30	32.5	116.7	1157	0.56	6.1	10	49	398
	Feb 2019	8.44	30.8	146.6	1339	0.73	10.3	8	43	482
	Apr 2019	8.15	22.9	85.0	850	0.41	14.6	12	48	367
	May 2019	8.25	16.2	105.4	1339	0.64	5.5	<5	62	509
	Dec 20	8.28	21.9	83	400	190	120	130	N/A	160
	Jan 21	8.19	22.8	106	880	430	4.5	12	N/A	300
	Feb 21	8.25	67.8	25.2	1400	730	5.4	8	N/A	510
	Mar 21*	7.88	25.4	87.2	690	460	30	42	N/A	260
	Apr 21	8.39	14.4	97.4	1200	600	1.4	< 2	N/A	460

Guideline		pH units	Temp (°C)	DO (%Sat)	EC (µS/cm)	Salinity (g/kg)	Turbidity (NTU)	TSS (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Hardness as CaCO ₃ (mg/L)
ANZG WQO		6.5 to 7.5	-	90 to 110	30 to 350	-	2 to 25	-	-	-	-
Basin Plan											
Low flow		7.7 to 8.3	-	60 to 110	510	-	13	14	-	-	-
High flow		7.4 to 8.1	-	60 to 110	375	-	55	65	-	-	-
	Early May 21	8.39	13.7	88.4	960	528	13	19	N/A	N/A	100
	Late May 21	8.54	8.2	98.6	1100	660	< 1	< 1	N/A	N/A	420
	Jun 21	8.43	N/A	98.7	1200	N/A	1.2	25	N/A	N/A	N/A
	Jul 21	8.44	N/A	92.3	1400	N/A	2.3	3	N/A	N/A	N/A
	Aug 21	8.47	N/A	88.6	1200	N/A	1.7	21	N/A	N/A	N/A
	Sep 21	8.4	N/A	94.3	1200	N/A	5.4	11	N/A	N/A	N/A
	Oct 21	8.29	N/A	81.9	970	N/A	12	24	N/A	N/A	N/A
	Nov 21	8.16	N/A	85.4	590	N/A	41	2.5	N/A	N/A	N/A

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

N/A = Not applicable

- = No values available

* = High flow event

** = WQO < LOR

Table 5.24 Water quality results for Sites 39, 40 and 42 in the Oakey Creek – nutrients

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low flow		0.010	-	-	0.005	-	-	1.000	0.110	0.045	5
High flow		ID	-	-	ID	-	-	1.280	0.340	0.09	ID
Site	Sampling event										
39	Jun 2018	0.04	0.01	0.51	0.52	0.3	0.3	0.8	0.02	<0.01	<1
	Nov 2018	0.05	<0.01	<0.01	<0.01**	0.4	0.5	0.5	0.11	<0.01	13
	Feb 2019	0.06	<0.01	<0.01	<0.01**	0.9	1.0	1.0	0.08	<0.01	12
	Apr 2019	0.04	<0.01	0.07	0.07	0.6	0.6	0.7	0.06	<0.01	31
	Dec 20	Dry at time of sampling									
	Jan 21	0.03	0.02	0.04	0.06	N/A	<0.2	<0.2	0.2	0.03	2.5
	Feb 21	0.03	<0.02	<0.02	<0.05**	N/A	<0.2	<0.2	0.04	<0.01	5.3
	Mar 21*	0.05	<0.02	2	2.0	N/A	13	15	<0.5**	0.31	2.5
	Apr 21	0.02	<0.02	0.91	0.91	N/A	15	15.91	0.06	0.07	5
	Early May 21	0.05	0.03	1	1.0	N/A	<0.2	1	0.2	0.14	2.5
	Late May 21	0.04	0.02	1.5	1.5	N/A	<0.2	1.5	0.05	<0.01	2.5
	Jun 21	0.005	0.01	0.21	0.21	N/A	1.5	1.71	0.05	0.005	5.3
	Jul 21	0.01	0.01	1.7	1.7	N/A	0.1	1.7	0.06	0.03	2.5
	Aug 21	0.01	0.01	0.87	0.87	N/A	0.1	0.87	0.03	0.005	2.5
	Sep 21	0.21	0.01	0.81	0.83	N/A	0.1	0.83	0.03	0.005	2.5
	Oct 21	0.02	0.01	0.17	0.17	N/A	0.1	0.1	0.08	0.04	2.5
	Nov 21	0.1	0.01	0.78	0.8	N/A	0.4	1.2	0.05	0.03	2.5
40	Jun 2018	0.02	<0.01	<0.01	<0.01**	0.3	0.3	0.3	0.02	<0.01	<1
	Nov 2018	0.06	0.02	0.72	0.74	0.3	0.4	1.1	0.20	0.02	7
	Feb 2019	Not Sampled									

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low flow		0.010	-	-	0.005	-	-	1.000	0.110	0.045	5
High flow		ID	-	-	ID	-	-	1.280	0.340	0.09	ID
	Apr 2019	0.02	0.02	0.90	0.92	0.3	0.3	1.2	0.06	0.02	4
	Dec 20	No access									
	Jan 21	<0.01	<0.02	0.21	0.23	N/A	0.5	0.73	0.22	0.04	660
	Feb 21	Dry at time of sampling									
	Mar 21*	0.02	<0.02	1.5	1.5	N/A	<0.5	1.5	<0.5**	0.09	540
	Apr 21	<0.01	<0.02	0.26	0.28	N/A	0.3	0.58	0.03	0.03	1100
	Early May 21	0.03	<0.02	1.5	1.5	N/A	<0.2	1.5	0.09	0.05	720
	Late May 21	<0.01**	<0.02	0.95	0.96	N/A	<0.2	0.96	0.03	<0.01	1200
	Jun 21	0.005	0.01	0.43	0.43	N/A	1.2	1.63	0.05	0.02	2.5
	Jul 21	0.005	0.01	2.4	2.4	N/A	0.1	2.4	0.05	0.03	2.5
	Aug 21	0.04	0.01	1.9	2	N/A	0.1	2	0.04	0.04	2.5
	Sep 21	0.005	0.03	1.5	1.6	N/A	0.7	2.3	0.01	0.005	2.5
	Oct 21	0.005	0.03	2	2	N/A	0.4	2.4	0.11	0.06	2.5
	Nov 21	0.005	0.01	1.1	1.2	N/A	0.025	1.2	0.13	0.06	2.5
42	Jun 2018	0.02	<0.01	1.25	1.25	0.2	0.2	1.4	0.01	<0.01	<1
	Nov 2018	0.05	<0.01	0.82	0.82	0.2	0.2	1.0	0.17	0.01	<1
	Feb 2019	0.06	0.02	0.69	0.71	0.3	0.4	1.1	0.02	<0.01	3
	Apr 2019	0.05	0.02	1.25	1.27	0.2	0.2	1.5	0.04	0.02	2
	May 2019	0.03	0.02	1.38	1.4	0.2	0.2	1.6	<0.01	<0.01	1
	Dec 20	0.02	<0.02	<0.02	0.54	N/A	0.5	0.5	0.16	0.31	<5
	Jan 21	<0.01**	<0.02	0.24	0.25	N/A	0.7	0.95	0.19	0.02	< 5
	Feb 21	0.04	<0.02	0.41	0.42	N/A	<0.2	0.42	0.03	0.01	< 5

Guideline (mg/L)		Ammonia	Nitrite	Nitrate	NOx	Organic N	TKN	Total N	Total P	Reactive P	Chlorophyll a (µg/L)
ANZG WQO		0.013	-	-	0.015	-	-	-	0.03	0.015	-
Basin Plan											
Low flow		0.010	-	-	0.005	-	-	1.000	0.110	0.045	5
High flow		ID	-	-	ID	-	-	1.280	0.340	0.09	ID
	Mar 21*	0.03	<0.02	1.5	1.6	N/A	<0.2	1.6	<0.5	0.09	< 5
	Apr 21	0.01	<0.02	0.84	0.86	N/A	0.3	1.16	<0.01	<0.01	< 10**
	Early May 21	0.04	<0.02	1.9	2.0	N/A	<0.2	2	0.09	0.06	< 5
	Late May 21	<0.01**	<0.02	1.5	1.5	N/A	<0.2	1.5	0.02	<0.01	< 5
	Jun 21	0.005	0.01	0.49	0.5	N/A	4.2	4.7	0.03	0.01	2.5
	Jul 21	0.005	0.01	2.7	2.7	N/A	0.1	2.7	0.04	0.03	2.5
	Aug 21	0.02	0.01	2.5	2.5	N/A	0.1	2.5	0.06	0.03	2.5
	Sep 21	0.005	0.01	1.9	1.9	N/A	0.5	2.4	0.01	0.005	2.5
	Oct 21	0.005	0.01	2.1	2.1	N/A	0.1	2.1	0.1	0.08	2.5
	Nov 21	0.005	0.01	1.6	1.7	N/A	0.025	1.7	0.11	0.07	2.5

Source: ANZG, 2018; DES, 2020b; ELA, 2019

Table notes:

Values outside of all guidelines are shaded orange. All units mg/L unless stated otherwise.

- = No values available

ID = Insufficient data for determination of water quality objective

* = High flow event

** = WQO < LOR

Table 5.25 Water quality results for Sites 39, 40 and 42 in the Oakey Creek – dissolved metals

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
Site	Sampling event								
39	Jun 2018	<0.001	<0.0001	<0.001	<0.001	<0.001	0.004	<0.005	<0.0001**
	Nov 2018	<0.001	<0.0001	<0.001	0.002	<0.001	0.007	<0.005	<0.0001**
	Feb 2019	<0.001	<0.0001	<0.001	0.001	<0.001	0.006	<0.005	<0.0001**
	Apr 2019	<0.001	<0.0001	<0.001	0.002	<0.001	0.010	<0.005	<0.0001**
	Dec 20	No access							
	Jan 21	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	0.005	< 0.005	<0.0001**
	Feb 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.005	< 0.005	<0.0001**
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.004	< 0.001	0.002	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.006	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.003	< 0.001	0.004	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.007	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.005	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	0.001	<0.001	0.0001	0.005	<0.005**
	Aug 21	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.005	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.005	0.009
	Oct 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.005	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.007	<0.005**
40	Jun 2018	<0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Nov 2018	<0.001	<0.0001	<0.001	0.003	<0.001	0.004	<0.005	<0.0001**
	Feb 2019	Not Sampled							
	Apr 2019	<0.001	<0.0001	<0.001	0.002	<0.001	0.003	<0.005	<0.0001**
	Dec 20	No access							
	Jan 21	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	0.003	< 0.005	<0.0001**

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Feb 21	Dry at time of sampling							
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.001	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.001	<0.005**
	Jul 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008
	Aug 21	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	0.007
	Oct 21	<0.001	<0.0002	0.002	0.002	<0.001	<0.0001	0.002	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
42	Jun 2018	<0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Nov 2018	<0.001	<0.0001	<0.001	0.002	<0.001	0.002	<0.005	<0.0001**
	Feb 2019	<0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Apr 2019	<0.001	<0.0001	<0.001	0.001	<0.001	0.003	<0.005	<0.0001**
	May 2019	<0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.005	<0.0001**
	Dec 20	< 0.001	< 0.0002	< 0.001	0.002	< 0.001	0.003	< 0.005	<0.0001**
	Jan 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.003	< 0.005	<0.0001**
	Feb 21	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	0.003	0.057	<0.0001**
	Mar 21*	< 0.001	< 0.0002	< 0.001	0.001	< 0.001	< 0.001	< 0.005	<0.0001**
	Apr 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Early May 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Late May 21	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	0.002	< 0.005	<0.0001**
	Jun 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	0.007
	Jul 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.001	0.005

Guideline (mg/L)		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury
ANZG WQO		0.024	0.0002	0.0033	0.0014	0.0034	0.011	0.008	0.00006
Basin Plan		-	-	-	-	-	-	-	-
	Aug 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	0.009
	Sep 21	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	0.005
	Oct 21	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005**
	Sep 21	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.002	<0.005**

Source: ANZG, 2018

Table notes:

Orange shading where value is above WQO or outside WQO range where applicable

All units mg/L unless stated otherwise.

- = No values available* = High flow event

** = Value > WQO but < LOR

5.3 Summary of existing water quality conditions

Water quality data from collected samples has been compared to historical water quality data from DRDMW Macintyre Brook, Condamine River and Gowrie Creek gauging stations, as a proxy for the impact assessment area. This comparison has identified that water quality values recorded during sampling for the Project are typically consistent with similar data obtained from the corresponding gauging stations.

Historic water quality has been typically outside of WQOs with TSS exceeding WQOs both historically and within the current assessment. Total nitrogen and phosphorus, as a typical anthropogenic contaminant, were also consistent with historical data, with WQO exceedances recorded across all sampling events. Water quality across the impact assessment area was typically considered average to poor with typical patterns of alkaline pH, high electrical conductivity, elevated concentrations of suspended sediment, nutrients and instances of diminished DO concentrations. Some instances of Mercury exceeding WQOs across all catchments between the months of June and October 2021.

Data from the gauging stations showed that the majority of water quality parameters (i.e. TSS, ammonia, total nitrogen and total phosphorus) did not meet WQOs. The gauging station data indicates that discharge within Macintyre Brook and Gowrie Creek was variable. Similarly, the Condamine River exhibited no flow conditions for much of the sampling period from 2017 to 2019. More flow was present in the streams 2021.

In summary, the poor water quality conditions observed within the impact assessment area are likely to be the result of the extensive agricultural and rural land uses in the catchment, and the disturbed status of the waterways.

5.4 Baseline water quality monitoring

Further baseline water quality monitoring occurred between November 2020 and November 2021. The monitoring recorded results from the 13 monitoring events including 12 routine events and one flood event monitoring event. This water quality was assessed against regional WQOs.

Exceedances were noted in sites across each of the Oakey Creek, central Condamine River and Macintyre Brook, catchments. A large degree of regional WQOs exceedances were noted for the following parameters:

- Total Phosphorous
- Filterable Phosphorous
- Ammonia
- Total Nitrogen
- Nitrate and Nitrite
- Soluble Copper
- Soluble Zinc.

No quantities of PAH above laboratory limits or reporting were reported for any of the sampled sites.

The data identified within this factual report was used for the derivation of interim site-specific objectives (Section 5.5). For further details regarding the baseline monitoring report refer to Appendix G.

5.5 Interim water quality objectives

The interim site-specific WQOs were developed as a tool for identifying potential issues associated with and impacts arising from construction activities. While each stream crossing location was not assessed for water quality values, it was considered that the values presented within this report provide a proxy indication of water quality across key water crossing locations along the footprint.

These interim site-specific WQOs are not intended as assessment triggers for compliance (nor are the EPP (Water and Wetland Biodiversity) regional WQOs) but can be used as indicators for the adequacy of management measures. There is potential for the interim WQOs to be supplemented by additional water quality sampling before commencement of construction to allow for full calculation of WQOs.

As the waters within the impact assessment area are scheduled as slightly-moderately disturbed (under EPP (Water and Wetland Biodiversity)), the 80th percentile was selected as the objective.

Across all water types, interim physico-chemical site-specific WQOs were elevated in relation to EPP (Water and Wetland Biodiversity) WQOs, specifically for Chlorophyll a, TSS and Turbidity. Additionally, interim nutrient site-specific WQOs were elevated in relation to WQOs. Toxicant site-specific WQOs varied (in terms of above and below) in relation to EPP (Water and Wetland Biodiversity) WQOs.

Interim WQOs were derived for those sites where at least eight sample results have been obtained. Sites that had less eight samples obtained were excluded from the derivation process. That is, interim WQOs were not derived for two sites:

- 14
- 20R

For further details regarding the baseline monitoring report refer to Appendix H.

5.5.1 Physico-chemical parameter baseline values

Physico-chemical baseline values are presented below by sub-catchment and site number. Sub-catchments with site-specific water quality objectives from EPP (Water and Wetland Biodiversity) include:

- Macintyre Barwon Floodplain
- Lower Macintyre Brook
- Canning Creek
- Southern Condamine
- Central Condamine
- Oakey Creek.

5.5.1.1 Macintyre Barwon Floodplain

Monitoring sites located within the Macintyre Barwon Floodplain sub-catchment include:

- 2
- 2R.

Physico-chemical baseline percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.26 and Table 5.27.

Table 5.26 Site 2 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.03	7.77	7.4 to 8.0
Specific conductivity	µs/cm at 25°C	210.80	320.00	240
DO saturation	(%)	64.02	86.16	60 to 110
Chlorophyll a	µg/L	2.50	5.00	3.00
TSS	mg/L	11.60	29.20	25.00
Turbidity	NTU	12.64	32.00	30.00

Table 5.27 Site 2R physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.13	7.66	7.4 to 8.0
Specific conductivity	µs/cm at 25°C	210.80	310.00	240
DO saturation	(%)	66.54	87.82	60 to 110
Chlorophyll a	µg/L	2.50	4.20	3
TSS	mg/L	6.64	32.40	25
Turbidity	NTU	13.88	50.20	30

5.5.1.2 Lower Macintyre Brook

Monitoring sites located within the Lower Macintyre Brook sub-catchment include:

- 3
- 6
- 7.

Physico-chemical baseline percentiles and regional EPP (Water and Wetland Biodiversity)WQOs are identified in Table 5.28, Table 5.29 and Table 5.30.

Table 5.28 Site 3 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.11	7.37	7.4 to 8.0
Specific conductivity	µs/cm at 25°C	210.00	406.00	370
DO saturation	(%)	52.20	77.70	60 to 110
Chlorophyll a	µg/L	2.50	12.00	Indeterminate
TSS	mg/L	8.00	24.00	10
Turbidity	NTU	7.90	35.00	11

Table 5.29 Site 6 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.03	7.45	7.4 to 8.0
Specific conductivity	µs/cm at 25°C	260.00	420.00	370
DO saturation	(%)	50.30	62.30	60 to 110
Chlorophyll a	µg/L	2.50	5.30	Indeterminate
TSS	mg/L	11.60	27.40	10
Turbidity	NTU	15.10	29.00	11

Table 5.30 Site 7 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.17	7.54	7.4 to 8.0
Specific conductivity	µs/cm at 25°C	256.00	409.80	370
DO saturation	(%)	51.46	68.42	60 to 110
Chlorophyll a	µg/L	2.50	8.90	Indeterminate
TSS	mg/L	8.60	27.60	10
Turbidity	NTU	12.56	63.20	11

5.5.1.3 Canning Creek

Monitoring sites located within the Canning Creek sub-catchment include:

- 11
- 16
- 18.

Physico-chemical baseline percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.31, Table 5.32 and Table 5.33.

Table 5.31 Site 11 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.00	7.47	7.2 to 7.8
Specific conductivity	µs/cm at 25°C	218.60	290.00	200
DO saturation	(%)	38.26	68.42	60 to 110
Chlorophyll a	µg/L	2.50	8.90	Indeterminate
TSS	mg/L	12.60	27.60	25
Turbidity	NTU	17.00	63.20	35

Table 5.32 Site 16 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.30	7.66	7.2 to 7.8
Specific conductivity	µs/cm at 25°C	176.00	264.00	200
DO saturation	(%)	48.90	75.08	60 to 110
Chlorophyll a	µg/L	2.50	14.44	Indeterminate
TSS	mg/L	21.00	59.60	25
Turbidity	NTU	87.20	154.40	35

Table 5.33 Site 18 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.23	7.49	7.2 to 7.8
Specific conductivity	µs/cm at 25°C	170.00	268.40	200
DO saturation	(%)	42.70	67.92	60 to 110
Chlorophyll a	µg/L	2.50	6.64	Indeterminate
TSS	mg/L	14.00	34.80	25
Turbidity	NTU	55.56	144.00	35

5.5.1.4 Southern Condamine

Monitoring sites located within the Southern Condamine sub-catchment include:

- 23
- 24.

Physico-chemical baseline percentiles and regional EPP (Water and Wetland Biodiversity)WQOs are identified in Table 5.34 and Table 5.35.

Table 5.34 Site 23 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.22	8.21	7.2 to 7.9
Specific conductivity	µs/cm at 25°C	210.00	290.00	170
DO saturation	(%)	68.60	113.30	60 to 110
Chlorophyll a	µg/L	2.50	6.80	5
TSS	mg/L	18.20	51.80	8
Turbidity	NTU	39.60	130.00	9

Table 5.35 Site B2G 24 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.10	7.93	7.2 to 7.9
Specific conductivity	µs/cm at 25°C	166.00	250.40	170
DO saturation	(%)	34.76	72.34	60 to 110
Chlorophyll a	µg/L	2.50	8.70	5
TSS	mg/L	45.20	144.00	8
Turbidity	NTU	130.00	264.00	9

5.5.1.5 Central Condamine

Monitoring sites located within the Central Condamine sub-catchment include:

- 27
- 29
- 30
- 32
- 33.

Physico-chemical baseline percentiles and regional EPP (Water and Wetland Biodiversity)WQOs are identified in Table 5.36, Table 5.37, Table 5.38, Table 5.39 and Table 5.40.

Table 5.36 Site 27 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.55	8.56	7.4 to 8.3
Specific conductivity	µs/cm at 25°C	227.80	359.20	890
DO saturation	(%)	78.84	97.34	60 to 110
Chlorophyll a	µg/L	2.50	12.80	9
TSS	mg/L	25.20	68.80	25
Turbidity	NTU	13.40	86.10	25

Table 5.37 Site 29 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.48	7.72	7.4 to 8.3
Specific conductivity	µs/cm at 25°C	236.00	278.80	890
DO saturation	(%)	31.44	56.10	60 to 110
Chlorophyll a	µg/L	6.76	18.40	9
TSS	mg/L	15.60	42.00	25
Turbidity	NTU	22.80	72.52	25

Table 5.38 Site 30 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.76	8.49	7.4 to 8.3
Specific conductivity	µs/cm at 25°C	252.00	367.00	890
DO saturation	(%)	76.52	97.84	60 to 110
Chlorophyll a	µg/L	2.50	27.20	9
TSS	mg/L	20.40	65.80	25
Turbidity	NTU	11.60	90.44	25

Table 5.39 Site 32 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.56	8.11	7.4 to 8.3
Specific conductivity	µs/cm at 25°C	278.00	358.00	890
DO saturation	(%)	64.76	98.48	60 to 110
Chlorophyll a	µg/L	2.50	21.92	9
TSS	mg/L	15.00	54.00	25
Turbidity	NTU	11.70	54.80	25

Table 5.40 Site 33 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.41	8.11	7.4 to 8.3
Specific conductivity	µs/cm at 25°C	240.00	350.00	890
DO saturation	(%)	62.80	106.10	60 to 110
Chlorophyll a	µg/L	2.50	8.50	9
TSS	mg/L	15.00	34.00	25
Turbidity	NTU	7.70	66.00	25

5.5.1.6 Oakey Creek

Monitoring sites located within the Oakey Creek sub-catchment include:

- 39
- 40
- 42.

Physico-chemical baseline percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.41, Table 5.42 and Table 5.43.

Table 5.41 Site 39 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	7.75	8.25	7.7 to 8.3
Specific conductivity	µs/cm at 25°C	962.00	1920.00	510
DO saturation	(%)	56.58	106.84	60 to 110
Chlorophyll a	µg/L	2.50	6.64	5
TSS	mg/L	13.18	42.60	14
Turbidity	NTU	11.00	43.40	13

Table 5.42 Site 40 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	8.27	8.54	7.7 to 8.3
Specific conductivity	µs/cm at 25°C	684.80	1200.00	510
DO saturation	(%)	82.92	90.80	60 to 110
Chlorophyll a	µg/L	2.50	3.40	5
TSS	mg/L	9.40	29.00	14
Turbidity	NTU	3.70	33.56	13

Table 5.43 Site 42 physico-chemical WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
pH	log [H ⁺]	8.25	8.44	7.7 to 8.3
Specific conductivity	µs/cm at 25°C	896.00	1328.60	510
DO saturation	(%)	85.08	105.88	60 to 110
Chlorophyll a	µg/L	2.10	2.50	
TSS	mg/L	2.60	20.60	14
Turbidity	NTU	1.82	12.80	13

5.5.2 Nutrient parameter baseline values

Nutrient baseline values are presented below by sub-catchment and site number. Sub-catchments with site-specific nutrient baseline values include:

- Macintyre Barwon Floodplain
- Lower Macintyre Brook
- Canning Creek
- Southern Condamine
- Central Condamine
- Oakey Creek.

5.5.2.1 Macintyre Barwon Floodplain

Monitoring sites located within the Macintyre Barwon Floodplain sub-catchment include:

- 2
- 2R.

Nutrient percentiles and regional EPP (Water and Wetland Biodiversity)WQOs are identified in Table 5.44 and Table 5.45.

Table 5.44 Site 2 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.07	0.12	0.07
FRP	mg/L	0.02	0.05	0.020
Ammonia	mg/L	0.01	0.03	0.020
Nitrate	mg/L	0.01	0.55	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.02	0.55	0.010
TKN	mg/L	0.46	0.70	-
Total N	mg/L	0.57	1.26	0.575

Table note:

FRP = Filterable reactive phosphorus

Table 5.45 Site 2R nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.05	0.12	0.07
FRP	mg/L	0.03	0.06	0.020
Ammonia	mg/L	0.01	0.02	0.020
Nitrate	mg/L	0.01	0.56	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.02	0.56	0.010
TKN	mg/L	0.10	0.90	-
Total N	mg/L	0.48	1.31	0.575

5.5.2.2 Lower Macintyre Brook

Monitoring sites located within the Lower Macintyre Brook sub-catchment include:

- 3
- 6
- 7.

Nutrient percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.46, Table 5.47 and Table 5.48.

Table 5.46 Site 3 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.04	0.09	0.055
FRP	mg/L	0.01	0.03	0.011
Ammonia	mg/L	0.01	0.05	0.008
Nitrate	mg/L	0.01	0.20	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.01	0.22	0.018

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
TKN	mg/L	0.30	1.40	-
Total N	mg/L	0.60	1.40	0.710

Table 5.47 Site 6 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.04	0.07	0.055
FRP	mg/L	0.01	0.02	0.011
Ammonia	mg/L	0.02	0.07	0.008
Nitrate	mg/L	0.01	0.17	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.03	0.18	0.018
TKN	mg/L	0.44	1.20	-
Total N	mg/L	0.62	1.26	0.710

Table 5.48 Site 7 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.04	0.12	0.055
FRP	mg/L	0.01	0.01	0.011
Ammonia	mg/L	0.01	0.07	0.008
Nitrate	mg/L	0.01	0.01	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.03	0.03	0.018
TKN	mg/L	0.45	1.40	-
Total N	mg/L	0.57	1.40	0.710

5.5.2.3 Canning Creek

Monitoring sites located within the Canning Creek sub-catchment include:

- 11
- 16
- 18
- 20R.

Nutrient percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.49, Table 5.50 and Table 5.51.

Table 5.49 Site 11 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.05	0.12	0.030
FRP	mg/L	0.01	0.01	0.008
Ammonia	mg/L	0.01	0.07	0.010
Nitrate	mg/L	0.01	0.01	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.02	0.03	0.006
TKN	mg/L	0.50	1.40	-
Total N	mg/L	0.60	1.40	0.520

Table 5.50 Site 16 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.07	0.20	0.030
FRP	mg/L	0.01	0.06	0.008
Ammonia	mg/L	0.01	0.09	0.010
Nitrate	mg/L	0.01	0.07	-
Nitrite	mg/L	0.01	0.02	-
Nox	mg/L	0.02	0.08	0.006
TKN	mg/L	0.28	1.44	-
Total N	mg/L	0.44	1.62	0.520

Table 5.51 Site 18 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.05	0.17	0.030
FRP	mg/L	0.01	0.07	0.008
Ammonia	mg/L	0.02	0.06	0.010
Nitrate	mg/L	0.01	0.36	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.02	0.37	0.006
TKN	mg/L	0.16	1.34	-
Total N	mg/L	0.49	1.40	0.520

5.5.2.4 Southern Condamine

Monitoring sites located within the Southern Condamine sub-catchment include:

- 23
- 24.

Nutrient percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.52 and Table 5.53.

Table 5.52 Site 23 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.07	0.15	0.045
FRP	mg/L	0.01	0.05	0.015
Ammonia	mg/L	0.02	0.08	0.006
Nitrate	mg/L	0.01	0.10	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.03	0.10	0.003
TKN	mg/L	0.10	1.00	-
Total N	mg/L	0.14	1.34	0.595

Table 5.53 Site 24 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.20	0.33	0.045
FRP	mg/L	0.03	0.08	0.015
Ammonia	mg/L	0.03	0.09	0.006
Nitrate	mg/L	0.01	0.06	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.02	0.12	0.003
TKN	mg/L	0.10	1.50	-
Total N	mg/L	0.10	2.76	0.595

5.5.2.5 Central Condamine

Monitoring sites located within the Central Condamine sub-catchment include:

- 27
- 29
- 30
- 32
- 33.

Nutrient baseline percentiles and regional EPP (Water and Wetland Biodiversity) WQOs are identified in Table 5.54, Table 5.55, Table 5.56, Table 5.57 and Table 5.58.

Table 5.54 Site 27 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.09	0.33	0.170
FRP	mg/L	0.03	0.14	0.020
Ammonia	mg/L	0.03	0.08	0.004
Nitrate	mg/L	0.01	0.37	-
Nitrite	mg/L	0.01	0.01	-

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Nox	mg/L	0.02	0.38	0.004
TKN	mg/L	0.32	1.32	-
Total N	mg/L	0.40	1.78	0.860

Table 5.55 Site 29 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.73	0.87	0.170
FRP	mg/L	0.48	0.71	0.020
Ammonia	mg/L	0.04	0.07	0.004
Nitrate	mg/L	0.01	0.02	-
Nitrite	mg/L	0.01	0.02	-
Nox	mg/L	0.02	0.03	0.004
TKN	mg/L	0.34	4.28	-
Total N	mg/L	0.34	4.28	0.860

Table 5.56 Site 30 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.08	0.36	0.170
FRP	mg/L	0.03	0.16	0.020
Ammonia	mg/L	0.02	0.06	0.004
Nitrate	mg/L	0.01	0.36	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.02	0.37	0.004
TKN	mg/L	0.22	2.28	-
Total N	mg/L	0.50	2.88	0.860

Table 5.57 Site 32 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.12	0.34	0.170
FRP	mg/L	0.05	0.17	0.020
Ammonia	mg/L	0.01	0.03	0.004
Nitrate	mg/L	0.01	0.41	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.03	0.42	0.004
TKN	mg/L	0.10	1.08	-
Total N	mg/L	0.20	2.36	0.860

Table 5.58 Site 33 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.16	0.30	0.170
FRP	mg/L	0.08	0.22	0.020
Ammonia	mg/L	0.02	0.04	0.004
Nitrate	mg/L	0.01	0.49	-
Nitrite	mg/L	0.01	0.01	-
Nox	mg/L	0.03	0.50	0.004
TKN	mg/L	0.10	2.10	-
Total N	mg/L	0.25	2.50	0.860

5.5.2.6 Oakey Creek

Monitoring sites located within the Oakey Creek sub-catchment include:

- 39
- 40
- 42.

Nutrient percentiles and regional EPP (Water and Wetland Biodiversity)WQOs are identified in Table 5.59, Table 5.60 and Table 5.61.

Table 5.59 Site 39 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.04	0.09	0.110
FRP	mg/L	0.01	0.03	0.045
Ammonia	mg/L	0.02	0.05	0.010
Nitrate	mg/L	0.01	0.93	-
Nitrite	mg/L	0.01	0.02	-
Nox	mg/L	0.05	0.93	0.005
TKN	mg/L	0.10	0.54	-
Total N	mg/L	0.34	1.32	1.00

Table 5.60 Site 40 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.03	0.12	0.110
FRP	mg/L	0.01	0.05	0.045
Ammonia	mg/L	0.01	0.03	0.010
Nitrate	mg/L	0.10	1.74	-
Nitrite	mg/L	0.01	0.03	-
Nox	mg/L	0.34	1.84	0.005
TKN	mg/L	0.10	0.46	-
Total N	mg/L	0.82	2.18	1.00

Table 5.61 Site 42 nutrient WQOs (for slightly-moderately disturbed ecosystems)

Parameter	Measurement unit	20 th percentile	80 th percentile	Regional WQO EPP (Water and Wetland Biodiversity)
Total P	mg/L	0.01	0.11	0.110
FRP	mg/L	0.01	0.03	0.045
Ammonia	mg/L	0.01	0.04	0.010
Nitrate	mg/L	0.02	1.90	-
Nitrite	mg/L	0.01	0.79	-
Nox	mg/L	0.57	1.98	0.005
TKN	mg/L	0.10	0.48	-
Total N	mg/L	1.02	2.34	1.00

5.5.3 Toxicant parameter baseline values

Toxicant baseline values are presented below by sub-catchment and site number. Sub-catchments with site-specific toxicant baseline values include:

- Macintyre Barwon Floodplain
- Lower Macintyre Brook
- Canning Creek
- Southern Condamine
- Central Condamine
- Oakey Creek.

5.5.3.1 Macintyre Barwon Floodplain

Monitoring sites located within the Macintyre Barwon Floodplain sub-catchment include:

- 2
- 2R.

Toxicant baseline percentiles and equivalent 95 species protection are identified in Table 5.62 and Table 5.63.

Table 5.62 Site 2 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.002	0.004	0.024
Cadmium	mg/L	0.00005	0.0001	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0022	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.0005	0.011
Zinc	mg/L	0.002	0.003	0.008
Mercury	mg/L	0.00005	0.0025	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.63 Site 2R toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.002	0.004	0.024
Cadmium	mg/L	0.00005	0.0001	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.00050	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.0008	0.011
Zinc	mg/L	0.002	0.003	0.008
Mercury	mg/L	0.00005	0.0025	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

5.5.3.2 Lower Macintyre Brook

Monitoring sites located within the Lower Macintyre Brook sub-catchment include:

- 3
- 6
- 7.

Toxicant baseline percentiles and equivalent 95 species protection are identified in Table 5.64, Table 5.65 and Table 5.66.

Table 5.64 Site 3 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.001	0.002	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00050	0.011
Zinc	mg/L	0.0005	0.0025	0.008
Mercury	mg/L	0.00005	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.65 Site 6 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.001	0.002	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0010	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00050	0.011

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Zinc	mg/L	0.0005	0.0025	0.008
Mercury	mg/L	0.00005	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.66 Site 7 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.00100	0.00200	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00050	0.011
Zinc	mg/L	0.0005	0.0030	0.008
Mercury	mg/L	0.00005	0.00320	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

5.5.3.3 Canning Creek

Monitoring sites located within the Canning Creek sub-catchment include:

- 11
- 16
- 18
- 20R.

Toxicant baseline percentiles and equivalent 95 species protection are identified in Table 5.67, Table 5.68 and Table 5.69.

Table 5.67 Site 11 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.001	0.002	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00050	0.011
Zinc	mg/L	0.0020	0.0030	0.008
Mercury	mg/L	0.00005	0.00320	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.68 Site 16 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0012	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0020	0.0030	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00120	0.011
Zinc	mg/L	0.0020	0.0030	0.008
Mercury	mg/L	0.00005	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.69 Site 18 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0010	0.024
Cadmium	mg/L	0.00008	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0010	0.0030	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00023	0.011
Zinc	mg/L	0.0020	0.0025	0.008
Mercury	mg/L	0.00152	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

5.5.3.4 Southern Condamine

Monitoring sites located within the Southern Condamine sub-catchment include:

- Site 23
- Site 24.

Toxicant baseline percentiles and equivalent 95 species protection are identified in Table 5.70 and Table 5.71.

Table 5.70 Site 23 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0020	0.024
Cadmium	mg/L	0.0001	0.0001	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0008	0.0030	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00005	0.011

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Zinc	mg/L	0.0030	0.0040	0.008
Mercury	mg/L	0.0025	0.0078	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.71 Site 24 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0020	0.024
Cadmium	mg/L	0.00008	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0016	0.0030	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00023	0.011
Zinc	mg/L	0.0028	0.0050	0.008
Mercury	mg/L	0.00152	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

5.5.3.5 Central Condamine

Monitoring sites located within the Central Condamine sub-catchment include:

- 27
- 29
- 30
- 32
- 33.

Toxicant baseline percentiles and equivalent 95 species protection are identified in Table 5.72, Table 5.73, Table 5.74, Table 5.75 and Table 5.76.

Table 5.72 Site 27 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0007	0.024
Cadmium	mg/L	0.00008	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0016	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00243	0.011
Zinc	mg/L	0.0020	0.0044	0.008
Mercury	mg/L	0.00152	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.73 Site 29 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0014	0.0030	0.024
Cadmium	mg/L	0.00008	0.00010	0.002
Chromium	mg/L	0.0005	0.0007	0.001
Copper	mg/L	0.0016	0.0032	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00603	0.011
Zinc	mg/L	0.0058	0.0084	0.008
Mercury	mg/L	0.00152	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.74 Site 30 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0005	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0010	0.0024	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00300	0.011
Zinc	mg/L	0.0020	0.0034	0.008
Mercury	mg/L	0.00005	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.75 Site 32 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0005	0.024
Cadmium	mg/L	0.0001	0.0001	0.002
Chromium	mg/L	0.0001	0.0005	0.001
Copper	mg/L	0.0005	0.0026	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00005	0.011
Zinc	mg/L	0.00005	0.00360	0.008
Mercury	mg/L	0.0025	0.0100	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.76 Site 33 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0005	0.024
Cadmium	mg/L	0.0001	0.0001	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0020	0.0030	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00005	0.011
Zinc	mg/L	0.0030	0.0050	0.008
Mercury	mg/L	0.0025	0.0025	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

5.5.3.6 Oakey Creek

Monitoring sites located within the Oakey Creek sub-catchment include:

- 39
- 40
- 42.

Toxicant baseline percentiles and equivalent 95 species protection are identified in Table 5.77, Table 5.78 and Table 5.79.

Table 5.77 Site 39 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0005	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00440	0.011
Zinc	mg/L	0.0025	0.0052	0.008
Mercury	mg/L	0.00005	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.78 Site 40 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0005	0.024
Cadmium	mg/L	0.00007	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0020	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00122	0.011

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Zinc	mg/L	0.0014	0.0025	0.008
Mercury	mg/L	0.00103	0.00250	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

Table 5.79 Site 42 toxicant baseline percentiles and 95% species protection

Parameter	Measurement unit	20 th percentile	80 th percentile	ANZG WQO
Arsenic	mg/L	0.0005	0.0005	0.024
Cadmium	mg/L	0.00005	0.00010	0.002
Chromium	mg/L	0.0005	0.0005	0.001
Copper	mg/L	0.0005	0.0018	0.0014
Lead	mg/L	0.0005	0.0005	0.0034
Nickel	mg/L	0.00005	0.00200	0.011
Zinc	mg/L	0.0020	0.0025	0.008
Mercury	mg/L	0.00005	0.00500	0.0006 ^a

Source: 95% species protection (ANZG, 2018)

Table note:

a* denotes (99% species protection due to bioaccumulation)

6 Potential impacts

6.1 Impacts to surface water quality

Potential surface water quality impacts will be avoided/minimised through initial mitigation through design responses and proposed *in-situ* mitigation measures as required (Sections 7.1 and 7.2, respectively). Potential impacts were assessed with consideration of the existing surface water quality condition, sensitivity of water quality receptors (including acknowledgment of downstream impacts and the assimilative capacity of the surrounding catchment).

The assessment of surface water quality impacts has also included consideration of the assimilative capacity of the receiving environment through historic and existing compliance with existing WQOs. Currently, the existing water quality conditions do not meet all the WQO values for each catchment. As such, the assimilative capacity was considered as part of the qualitative risk of degradation of water quality (against WQOs) from potential Project impacts.

It is considered likely that the assimilative capacity of the waterways within the impact assessment area will be greater during higher flow conditions (Appendix E). In contrast, the lowest assimilative capacity and highest potential for impact would occur during periods of extended low flow (such as those experienced from 2017 to 2019).

Potential impacts from the Project are expected to have the highest risk during periods of higher flow condition, due to increased potential of transportation of contaminants to waterways. However, this aligns with the highest assimilative capacity of the waterway, reducing overall impact magnitude.

The following sections provide a summarised discussion of the potential direct and indirect impacts to surface water quality as a consequence of Project activities.

6.1.1 Construction impacts

Potential direct and indirect impacts to surface water quality that may arise due to construction activities for the Project are discussed in Table 6.1. Impacts include those to the water feature itself, in addition to receptors that may be indirectly impacted due to alterations in water quality, such as fish species and riparian vegetation.

Table 6.1 Potential construction impacts to water quality and impacting processes

Potential impact	Impacting process
Increased debris load in waterways, thereby reducing the aesthetic quality of downstream waterway systems. Debris may also impact on the health of aquatic and terrestrial fauna, particularly if ingested.	Potential for rubbish and debris from construction sites to be blown off or washed away from a construction area into nearby waterways, due to poor housekeeping or loss of containment.
Increased water turbidity and sedimentation load. Potential changes to overland flow pathways and diversions are considered to have a high risk of impacting surface water quality receptors associated with: - Flowing watercourses and unmapped waterways - Static waterbodies occurring downstream of the Project works.	Increased sediment loading of waterways may arise due to: - Construction activities that involve the clearance of vegetation and disturbance of topsoil, thereby leaving subsoils exposed to erosional processes. In turn, this may result in elevated sediment concentrations in surface runoff - Construction works involving disturbance to the riparian corridor (e.g. removal of riparian vegetation and alterations to the profile of banks) may indirectly result in erosion and scouring of streambanks - Physical disturbance of stream beds and banks during the establishment of culverts and bridges, leading to a reduction in stability during construction of creek crossings - Dewatering associated with the decommissioning of artificial waterbodies that intersect the Project footprint may cause an increase in erosion and sedimentation of waterways if the discharge of that water is not adequately managed

Potential impact	Impacting process
	■ Catch-drains to re-direct the drainage feature ■ Potential erosion risk associated with soils exposed during topsoil stripping, earthworks, stockpiles, excavation and trenching activities required for infrastructure and material borrow pits, or from inadequate rehabilitation processes.
Alterations to water chemistry may impact on downstream aquatic ecosystem condition, as well as the useability of downstream waters for purposes such as irrigation, farm supply, stock use, recreation. Potential impact to proximal wetlands, with high sensitivity receptor areas.	Water chemistry may be altered due to the following processes: ■ Clearing and construction activities ■ Accidental spills and leaks of chemicals or fuels from construction equipment or fuel storages ■ Flow diversions ■ Subsoil exposure within excavations and borrow pits which have the potential to result in the leachate of acid rock drainage from the soil into overland flow ■ The erosion of stockpiled materials, which could lead to increased nutrient concentrations in overland flow. Salinity in runoff could arise from: ■ Disturbance and exposure of saline soils during construction, which could increase salinity in overland flows. The Project footprint directly intersects moderate to high salinity hazard rating areas (Figure 4.15) ■ Stockpiling of sediment and earthworks within high salinity hazard areas ■ Removal of vegetation, alteration of water resources, application of water (e.g. for material compaction) and general land use changes. Leakage from longitudinal drainage channels. If ponding were to occur, may also contribute to rising water tables and the vertical movement of salts in the soil profile. Nutrient loading: ■ Nutrients may migrate into waterways with sediment lost from cleared areas and from stockpiles. Contaminants and toxicants may impact water quality as a result of: ■ Accidental spills and leaks of chemicals or fuels from construction equipment or fuel storages ■ Residual heavy metals from rail grinding and welding ■ Compounds adhered to ballast materials ■ Dewatering activities leading to liberation of toxicants from potentially contaminated land ■ Contaminated land disturbance – if any nearby contaminated lands are disturbed near waterways, there is the potential for contamination from runoff on these waterways.

Domestic wastewater

Sources of domestic wastewater generation during construction will be restricted to the following:

- Toilets and kitchenette facilities provided in site office locations along the Project footprint
- Portaloos established at work fronts
- Non-resident workforce accommodation facilities that will be operational during the construction works stage.

It is expected that each of these potential sources of domestic wastewater will be self-contained and will not require direct discharge of wastewater to sewer or to waterways. Wastewater generated through the use of toilets and kitchenette facilities in office sites and work fronts will be captured and containerised. It is expected that this wastewater will be collected by a licenced waste contractor and taken offsite for disposal at an appropriately licenced wastewater facility.

ARTC has received advice from a non-resident workforce accommodation service provider to determine the typical daily water requirement for a non-resident workforce accommodation. Advice it was concluded that an average daily volume of 250 L/person/day should be adopted to estimate the water usage for non-resident workforce accommodation. As a comparison, the daily water use per person recorded in Millmerran in February 2022 was 163 L/person/day (TRC, 2022).

Each non-resident workforce accommodation facility has a 300 bed design capacity, with occupancy expected to vary from 150 to 300 persons depending on the construction schedule. The daily water usage for a single non-resident workforce accommodation facility will fluctuate with occupancy throughout the construction period. Based on a usage rate of 250 L/person/day, a 300 bed facility will operate between 50 and 100 per cent capacity (300 occupants), requiring 37.5 to 75.0 kilolitres (kL) of water per day. Actual water usage will fluctuate around this average as accommodation demands change with the progression of construction.

Wastewater generated from non-resident workforce accommodation will be treated in temporary package sewage treatment plants located onsite (estimated capacity of 300 equivalent population). Any wastewater not reused/irrigated onsite and/or by-products of treatment not suitable for reuse would be taken offsite for lawful disposal by a licenced waste contractor.

Industrial or trade waste

Sources of industrial or trade waste during construction will be limited, but may include:

- Precast concrete facility and concrete batch plants
- Vehicle and plant washdown facilities, located in laydown areas, non-resident workforce accommodation, Whetstone MDC.

Two locations have been identified for the temporary siting of a precast concrete facility and concrete batch plants for the Project (Table 6.2). The proposed locations are immediately north and south of the Condamine River floodplain outside the 1% AEP flood line.

Table 6.2 Precast concrete facility and concrete batch plant locations

ID ¹	Location	Chainage	Description
B2G-LDN152.0	Gore Highway and Dieckmann Road	Ch 152.1 km	Precast concrete facility and concrete batch plant - north
B2G-LDN138.5	Gore Highway	Ch 138.6 km	Precast concrete facility and concrete batch plant - south

Table note:

1 Refer to drawings in EIS Appendix B1: Design Drawings

Where industrial or trade waste may be generated by construction activities, the resultant wastewater will be captured and, where possible, recycled. Where recycling is not feasible, the captured wastewater will be collected by a licenced contractor and taken offsite for disposal at an appropriately licenced wastewater facility.

Stormwater and seepage

Sources of stormwater and seepage during construction may include:

- Stormwater runoff from construction sites
- Water that is discharged from dewatered excavations and trenches
- Water that accumulates in cuts due to groundwater seepage.

Temporary site drainage and water management controls will be installed in order to minimise the impacts of runoff and sedimentation from construction activities on adjacent receptors. Temporary site drainage and water runoff management will be in line with the International Erosion Control Association's *Best Practice Erosion and Sediment Control* document (2008) and will:

- Minimise runoff and sedimentation from Project activities to existing watercourses and drainage features
- Minimise disturbance to the water quality of existing watercourses and drainage features along the Project footprint
- Mitigate secondary salinisation through preventing downward leakage of water, with the use of lining or similar
- Establish surface profiling to prevent inadvertent ponding of water
- Control that water usage for vegetation establishment, landscaping, dust suppression and rehabilitation will be consistent with the quality requirements specified for irrigation and general water use in the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG, 2018)
- Ensure efficient water application, so as to avoid prolonged oversaturation of soils within and adjoining the Project footprint.

The design includes 20 sediment basins, as identified in Table 1.3. All of the proposed sediment basins are passive which allows surface runoff from a catchment to flow into the sediment basin without the need for pumping. The locations of sediment basins are shown in working plans and longitudinal sections presented in EIS Appendix B1: Design Drawings.

The placement and sizing of sediment basins for the Project has been established based on the landform and earthworks required to construct the design. Therefore, the placement and sizing of sediment basins will need to be reassessed and revised, as required, during detailed design. Sufficient allowance has been included in the Project footprint for sediment basins to be relocated and/or resized, as required to support detailed design.

In addition to sediment basins, construction sites will be set out, through a combination of landform and use of temporary erosion and sediment control measures, in a manner to minimise the volume of surface runoff that flows across the cleared areas within the temporary footprint. Construction sites will also be established so that potential sources of contamination (e.g. fuels and other hazardous materials) are appropriately stored and bundled.

In the first instance, stormwater and water that is dewatered from excavations (i.e. trenches and pits) or private storages within the Project footprint that are being decommissioned will be directed to a temporary retention structure where the water will be retained in order to allow suspended solids to settle out of suspension and for evaporation to occur. If waters are to be discharged from site, either directly or indirectly, it will be done in a manner that ensures the discharged water is compliant with the relevant WQOs for the receiving waterway (Section 2.2).

Water collected in sediment basins may be used for dust suppression, rehabilitation, or earthworks purposes on the condition that the water is proven to be of a quality that is:

- Non-deleterious to earth fill properties
- Consistent with the quality requirements specified for irrigation and general water use in the *Australia and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZG, 2018) and in accordance with any other required licences or conditions.

If waters are to be discharged from site, either directly or indirectly, it will be done in a manner that ensures the discharged water is compliant with the relevant WQOs for the receiving waterway (Section 2.2), ANZG (2018), and in accordance with relevant licences and conditions.

Predictive modelling for groundwater seepage has determined that seepage may occur from the face of deep cuts (>10 m) where groundwater is intersected; however, the assessment has concluded that seepage water, will typically evaporate due to local climate conditions and relatively small volumes when considered with the length of the cuts. Further details are provided in EIS Chapter 15: Groundwater.

6.1.2 Operation and maintenance impacts

Potential direct and indirect impacts to surface water quality during the Project's operation and maintenance activities include those to the water feature itself, in addition to receptors that may be indirectly impacted due to alterations in water quality, such as fish species and riparian vegetation. Many of the potential impacts, and impacting processes, are consistent with those that may occur during construction (Table 6.1) and full duplication of details has not been provided.

Operation and maintenance impacts to surface water quality may include:

- Increased rubbish and debris from operations blown off or washed away from the rail corridor into proximal watercourses
- Introduction of contaminants from a variety of sources during operation and maintenance due to:
 - Oil and grease spills – there is the potential for spillage of oil and grease from the general operation of rolling stock and for this spillage to enter the waterways after heavy rainfall events
 - Residual heavy metals from maintenance rail grinding and welding
 - Leaching of compounds that are adhered to ballast materials
 - Accidental spills of fuels, oil and chemicals during routine operations and maintenance.
- Maintenance – maintenance of the rail line or machinery near waterways (such as the crossing loops that are near to Macintyre Brook at approximate Ch 50.20 km to Ch 52.40 km) has the potential to mobilise sediments from areas disturbed by maintenance activities into adjacent waterways. Furthermore, oils and greases and other contaminants such as metals have the potential to enter waterways from spills, and for impact from the use of environmental toxicants (such as biocides) to maintain operating infrastructure areas. These activities have the potential to impact nearby waterways, through discharge points without appropriate mitigation
- Increase in rates of erosion and resultant sedimentation of waterways, where soils are exposed as a consequence of unsuccessful site rehabilitation.

Operations stage wastewater volumes cannot be established at this time as the frequency and nature of maintenance activities, and rate of wastewater generation, will vary between Project components and be in response to asset age and condition. In any event, wastewater generated during operation and maintenance will be infrequent and small in volume.

Point source discharge of stormwater for the Project is anticipated only to occur where longitudinal drainage connects to locations of cross-drainage. The purpose of longitudinal or track drainage is to remove water that has percolated through the track ballast, and to divert surface runoff to the nearest bridge or culvert location before it reaches the subgrade.

Two types of track drainage are proposed:

- Embankment drains – longitudinal drains that run parallel to the railway and are located within the rail corridor, at the foot of the railway embankment
- Catch drains – longitudinal drains that run parallel to the railway and are located within the rail corridor, on the up-slope side of cuttings.

Track drainage is proposed at specific locations along the Project footprint where the gradient is steep enough to divert surface runoff to the nearest bridge or culvert location. The design and location of track drainage will be refined, if required, during the detailed design stage.

Discharges of stormwater from the rail corridor are only likely to occur during weather events that contribute to inputs to the local waterway system from other sources at the same time, e.g. agricultural properties, road surfaces. Therefore, the impact of stormwater discharges into the local water system during such events are likely to be negligible.

The assessment of stormwater quality using MUSIC compared total suspended solids, total phosphorous and total nitrogen levels in existing discharge conditions against stormwater discharged from longitudinal drains that were applied with 3.5 m buffer strips within 100 m swales before the point of discharge. Swales are grassed or vegetated broad, shallow channels used to collect and convey stormwater flows, promote infiltration, reduce stormwater peak flow rates and discharge volumes, and remove sediments. Swales use a combination of physical and biochemical processes to treat stormwater (Department of Water, 2011). Buffer strips are vegetated areas that reduce sediment loads from water flowing through them. Buffer strips are aligned perpendicular to the water flow. They are commonly used in conjunction with swales (Department of Water, 2011).

The modelling indicated that impacts to rural areas associated with potential stormwater discharges are expected to be negligible with buffering from swales producing discharge of a better quality (reduced concentrations) than typical for rural areas. Therefore, with proposed treatment measures in place, water quality leaving the rail corridor is expected to be like or better than runoff from the existing condition of the rural environments. The proposed Project treatment requirements are considered adequate for water quality receptors provided sufficient buffer strips and swales are provided.

Modelled operational discharge along the Project footprint is predicted to contain suspended solids and nutrients in concentrations higher than forested conditions. However, these pollutant loads would be expected to be discharged from a comparable area of nearby rural catchment. It is expected that these will be contained within the areas of targeted rehabilitation zones and be limited in impact. Although impacts to water quality are theoretically possible, these will be mitigated with the provision of grassed rehabilitation strips along the length of the rail formation. Any impacts are likely to be minor and associated with highly constrained sites where a buffer strips and swales cannot be provided.

6.2 Impacts to waterway morphology

Impacts to water quality could arise from changes to waterway geomorphology through changes to the stability of streams and the potential for scour and sediment transport. The assessment of the potential for change to the fluvial geomorphic environment due to the Project recognises that existing case geomorphological processes must continue to function into the future. The full geomorphological assessment is described in EIS Appendix H: Geomorphology Report.

The revised reference design does not require permanent diversion of any watercourses, as defined under the Water Act (Section 4.6.2). However, two trapezoidal diversion drains are expected to be required for the permanent diversion of mapped waterways under the Fisheries Act based on the revised reference design:

- One trapezoidal diversion drain is required from Ch 121.44 km to Ch 120.76 km to divert runoff from the west away from the permanent footprint, which is located in cut at a small unnamed tributary of Back Creek. The rail in cut intersects a waterway flow path at Ch 121.44 km. The diverted flow returns to the original flow path 750 m downstream of the rail at Ch 120.76 km to a 2,400 X 1,800 reinforced concrete culvert. The diversion from Ch 121.44 km to Ch 120.76 km will be part of a rail alignment longitudinal drainage and is identified as a green (low risk) impact waterway under the DAF *Queensland waterways for waterway barrier works* (2023) spatial mapping (Figure 1.2a)
- At Ch 191.96 km a trapezoidal diversion drain is proposed where the rail embankment overlays an existing flow path at an unnamed tributary of One Mile Gully. This affected flow path runs for about 200 m long at Ch 192.09 km before crossing the permanent footprint obliquely. The diversion pathway is identified as a green (low risk) of impact waterway under the DAF *Queensland waterways for waterway barrier works* (2023) spatial mapping. The diversion is expected to consist of a realignment of the existing drainage feature to run parallel to the alignment before meeting a cross-drainage 1,800 mm reinforced concrete culvert and adjoining the downstream existing flow path (Figure 1.2b).

Design considerations for waterway barriers will include provision of an equivalent channel capacity to the existing channel and use of a similar bed and bank material. As such, these design considerations are not expected to impact fish passage requirements.

At the Whetstone MDC, a drainage feature of Macintyre Brook (named MB9 in the Whetstone MDC Geomorphology Assessment) flows through western extent of the MDC site. Existing flow paths for this drainage feature will be maintained. Where practicable, a 10 m setback distance from the top of bank of waterways will be implemented for activities within the temporary footprint. Any plant maintenance, chemical storage and refuelling will be carried out a minimum of 30 m from riparian vegetation and waterways where practical, with appropriate interception measures in place to avoid impacts to waterways, aquatic habitats and groundwater.

Flood behaviour is important for fluvial geomorphology as it is the flood events that drive channel and floodplain change. Hydraulic modelling has been undertaken to assess potential changes to overland flow and to identify potential impacts to adjacent environmental and land use receptors. Changes to overland flow were assessed by comparing pre- and post-development peak flows and flow hydrographs at appropriate locations e.g. directly downstream of the alignment, and by comparing pre- and post-development flood inundation footprints. Further details are provided in EIS Appendix T: Hydrology and Flooding Technical Report.

Of particular relevance to surface water quality is change to velocities due to the potential for scour and increases in turbidity. The flood impact objectives for design for natural ground surfaces including watercourses are where existing velocities are below 0.5 m/s than the Project should not result in velocities greater than 0.5 m/s (or the defined erosion threshold velocity in specific circumstances), or where the existing velocity is above 0.5 m/s, the increase in velocity is limited to 10 per cent (or within an acceptable range as determined by geomorphological assessment). In general, changes in velocities occur directly adjacent the Project alignment, around cross drainage structures. Scour protection has been specified where the outlet velocities for the 1% AEP event exceed the allowable soil velocities for the particular soil type for each location. Additional scour protection measures have been provided at culvert outlets where flood impact objective exceedances have been identified through modelling EIS Chapter 14: Flooding and Geomorphology).

In-stream works are proposed to be undertaken in accordance with *Accepted development requirements for operational work that is constructing or raising waterway barrier works* (DAF, 2018) for lower risk waterways (low and moderate). In-stream works for lower-risk waterways that cannot meet the accepted development requirements and within higher risk watercourses will be planned and undertaken in accordance with applicable assessment benchmarks for assessable development. Where in-stream works are developed in accordance with applicable accepted development requirements or acceptable outcomes within relevant codes, works are expected, at a minimum, to reduce increases in barriers for water movement during construction.

In-stream works will also need to be undertaken in accordance with the *Riverine protection permit exemption requirements* (DRDMW, 2023). ARTC is an 'approved entity' for exemption from the requirement for riverine protection permit applications. As such activities associated with in-stream disturbance works will be exempt from requiring approval as long as the exemption requirements are adhered to. If exemption requirements are unable to be met, the local DRDMW business centre will be contacted to discuss the need to apply for a riverine protection permit.

6.3 Impacts to surface water availability and users

A flooding and hydrology study has been undertaken separately to this report detailing potential impacts to flow, results are outlined in EIS Appendix T: Hydrology and Flooding Technical Report. There may be small changes to flow during construction if barriers are placed within watercourses during high flow events, however the potential for this to occur is low. Whilst change to hydraulic regimes may occur (due to new infrastructure) at 1% AEP conditions, changes to base-flow and low-flow conditions are not expected and will not significantly impede current surface water resource use.

6.3.1 Construction water sources

EIS Appendix B5: Construction Water provides details on the construction water for the Project. ARTC recognises that water sourcing and availability is critical to supporting the construction program for the Project. Sources of construction water will be finalised as the construction approach is refined during the detailed design stage of the Project (post-EIS). Through this process, refined water demand planning will be undertaken, including detailed contingency options, in the event that protracted dry seasonal conditions prevail and water supply options become unavailable.

The ultimate water sourcing strategy for the Project will be documented in a Construction Water Plan.

An assessment of the suitability of each source will need to be made for each construction activity requiring water, based on the following considerations:

- Available volume from identified source
- Legal access
- Volumetric requirement for the activity
- Water quality requirement for the activity
- Source location relative to the location of need.

Potential sources that are discussed in this section are those that are considered to meet the following assessment criteria:

- Source is located within 25 km of the Project
- Water will, subject to availability, be available for access/purchase for the Project.

Water source types are grouped into the following classifications:

- Potable
- Non-potable:
 - Supplemented sources: Refers to water delivered from infrastructure, e.g. dams. Supplemented supplies are managed by water supply scheme operators.
 - Unsupplemented sources: Surface water or groundwater that is not reliant on infrastructure to store or distribute water
 - Recycled sources: In Queensland, recycled water is regulated differently depending on how the recycled water is used. For example, irrigation and dust suppression are regarded as low exposure uses, whilst uses such as outdoor irrigation, and for augmenting a supply of drinking water are all considered high-exposure uses of recycled water.

ARTC has consulted with each of the potential water suppliers identified in the following section. Details of consultation are provided in EIS Appendix E: Consultation Report.

The impact to water plans (supply and conveyance) within the Project footprint will be minimal due to limited overland flow interference and minimal diversion of defined watercourses. Hydrological modelling has not indicated significant changes to the current flow regimes and as such, minimal impact is expected to occur from the Project on supply and conveyance.

Potential further impact to water plans may be expected due to the requirement for construction water, however this is expected to be regulated by the necessary authorities and will be conducted in accordance with the strategy for sourcing construction water (Section 1.4.5.3).

Water quality protection of aquatic ecosystems will confer protection to current existing conditions within the water quality study area, and water users downstream of the Project footprint. Therefore, identification of potential impact, mitigation measures (Section 7) and resulting impact assessment (Section 7.3) identifies any impact to surface water users. ARTC will not interfere with any existing commercial arrangements for the access to and/or sale of water between water entitlement holders and other end users. Consultation with potential water suppliers and/or water entitlement holders for construction water purposes will continue during the detailed design process.

6.4 Licenced water users

Construction water will only be obtained from existing licenced and/or lawful sources, within the limits of applicable allocations or entitlements. No water will be sourced from potable networks or supplemented surface water sources that are managed by TRC or GRC. ARTC will not interfere with any existing commercial arrangements for the access to and/or sale of water between water entitlement holders and other end users. .

Prior to taking water from existing licenced source points, the Project will obtain all necessary permits and licences and will seek to enter into an agreement with the water entitlement holder to purchase water at a negotiated rate. In all such instances, the take of water will be metered and/or recorded to ensure that volumes taken for the Project are within the allocated annual limits for each source. The take of water from a source will cease once the allocated annual limit has been reached.

Based on these limitations and management measures, the take of water for construction of the Project is expected to be no greater than that which is already licenced to be extracted and used within catchment areas proximal to the Project. Consequently, no impacts to existing licenced water users are foreseen.

6.4.1 Construction water supply consultation

Consultation with potential water suppliers to gauge interest in providing water for the Project has occurred and is outlined in EIS Appendix E: Consultation Report. Parties previously consulted by ARTC regarding the supply of water include the following:

- DRDMW
- DNRME
- Sunwater
- RuralCo Water
- New Hope
- QGC/Shell
- Millmerran Power
- Local governments (GRC and TRC).

ARTC is committed to ongoing consultation with all potential suppliers to confirm the ability to source water from any identified (and agreeable) licenced private water sources (e.g. in the instance the allocation type requires modification).

The DRDMW maintains *Exemption requirements for construction authorities for the take of water without a water entitlement (OSW/2020/5467)* (DNRME, 2021). These exemption requirements may only be used by a constructing authority defined under Schedule 2 of the *Acquisition of Land Act 1967* (Qld) and includes State government departments and local governments. At present these guidelines do not directly apply to ARTC.

If an exemption does not apply to ARTC, then a Temporary Water Permit would be required before taking any water for construction purposes.

Given the range of construction activities, the water quality requirements will range from potable to non-potable water sources. Opportunities may exist for construction water to be sourced from recycled water. Construction water will only be obtained from existing licenced sources, within the limits of applicable allocations or entitlements. Additionally, no water will be sourced from potable networks or surface water storages that are managed by TRC or GRC. ARTC will not interfere with any existing commercial arrangements for the access to and/or sale of water between water entitlement holders and other end users. Consultation with potential water suppliers and/or water entitlement holders for construction water purposes will continue during the detailed design process.

7 Mitigation measures

This section provides discussion of mitigation measures and controls that have been incorporated into the revised reference design (Section 7.1) Additionally, this section provides measures that are proposed and implemented into future stages of Project delivery to address Project-specific risks to surface water quality (Section 7.2).

7.1 Mitigation through the revised reference design stage

Development of the revised reference design for the Project has progressed in parallel with the impact assessment process. As a consequence, design solutions for avoiding, minimising or mitigating impacts have been incorporated into the revised reference design as appropriate and where possible.

Mitigation measures and controls that have been factored into the design, or otherwise implemented during the revised reference design stage for impacts to surface water quality and resources, are as follows:

- The Project utilises the existing South Western Line and Milmerran Branch Line rail corridors as much as possible to avoid introducing a new linear infrastructure corridor across watercourses and floodplains, where possible
- The revised reference design has been developed to minimise impacts to watercourses, riparian vegetation and in-stream flora and habitats by adopting a crossing structure hierarchy where bridges are preferred to culverts
- Watercourse crossing structures (including culverts and bridges) are designed to minimise the need for ongoing maintenance and inspection to maintain aquatic fauna passage (e.g. fish and turtles) and minimise the risk of blockages in reference to *Accepted development requirements for operational work that is constructing or raising waterway barrier works* (DAF, 2018)
- Bridges and waterway crossings are designed to minimise impacts to bed, banks and environmental flows, in accordance with relevant regulatory requirements (as per requirements of DAF and the Fisheries Act)
- The revised reference design has been developed to avoid the need to permanently divert watercourses, as defined and mapped under the Water Act. Two drainage features are expected to likely require diversion
- Bridge structures are provided in the revised reference design over the following watercourses, to minimise disturbance of aquatic habitats:
 - Macintyre River
 - Macintyre Brook
 - Pariagara Creek
 - Cattle Tree Creek
 - Native Dog Creek
 - Bringalily Creek
 - Nicol Creek
 - Back Creek
 - Grasstree Creek
 - Condamine River
 - Condamine River north branch

- Westbrook Creek
- Dry Creek.
- Site specific risk assessments for each waterway crossing will be performed after the construction timing and methods have been determined. The proponent commits to develop an assessment procedure that considers site specific attributes (topography, soil conditions, water quality, in-stream habitat and aquatic ecology, ephemeral nature, fish passage, sediment loading type and intensity of construction works) to minimise risks and impacts on the watercourse and its ecology. For instance, it is suggested that the risks to ephemeral streams is reduced by construction works being performed during dry season to minimise potential impacts. Construction procedures will follow the recommended procedures to be provided in the Project Soil Management Plan and activities will be avoided during wet weather. In addition, the following information should be provided for each crossing:
 - Topographical contours
 - Direction of surface water runoff and drainage
 - Existing or proposed water bores or monitoring wells on the site or adjacent land
 - Location of waste storage and disposal locations
 - Hydrogeological features
 - Identification of environmental values
 - Monitoring and reporting requirements.
- Scour protection measures have been selectively included around culvert entrances and exits, on disturbed stream banks and on land bound by a watercourse to avoid erosion. Scour protection or energy dissipation measures have been specifically designed and sized for each culvert location in accordance with AGRD with consideration for flow velocity, soil type and vegetation cover. Scour protection measures incorporated into the revised reference design for culverts include:
 - Concrete apron
 - Concrete wingwalls
 - Rock mattress scour protection, with geotextile underlay.
- Scour protection measures for culvert outlets have been designed to ensure that the maximum allowable flow velocities in a 1% AEP, as specified in Table 3.1 of AGRD, are not exceeded. Maximum allowable flow velocities in Table 3.1 of AGRD are specific to the soil type at each culvert location, as follows:
 - Stable rock – 4.5 m/s
 - Stones 150 mm diameter or larger – 3.5 m/s
 - Gravel 100 mm or grass cover – 2.5 m/s
 - Firm loam or stiff clay – 1.2 to 2 m/s
 - Sandy or silty clay – 1.0 to 1.5 m/s.
- Where areas immediately downstream of culvert outlets experience velocity changes above the Flood Impact Objectives at the Project boundary, additional scour protection allowed for within the Reference Design
- The scour protection length and minimum rock size (d50) have been determined from Figure 3.15 and Figure 3.17 in AGRD. All required scour lengths are predicted to fit within the rail corridor
- The revised reference design includes 20 sediment basins. All sediment basins are passive which allows surface runoff from a catchment to flow into the sediment basin without the need for pumping
- Longitudinal drains have been designed to include 3.5 m buffer strips within 100 m swales before the point of discharge into the local waterway system. Longitudinal drains are included in the rail formation design, including for crossing loops.

7.2 Proposed mitigation measures

In order to manage and mitigate project risks, several mitigation measures have been proposed for implementation to address Project-specific risks to surface water quality in future stages of Project delivery.

Table 7.1 identifies the relevant Project stage, the aspect to be managed and the proposed mitigation measure. The mitigation measures presented in Table 7.1 have then been factored into the assessment of residual impact significance, as documented in Table 8.1.

In addition to the mitigation measures identified in Table 7.1 and as part of the detailed design stage, when finalised positions of infrastructure elements (e.g. abutments/piers etc.) are known and detailed soil surveys are complete, geomorphological assessment of identified risk locations has been undertaken.

Table 7.1 Proposed Surface Water Mitigation Measures

Delivery stage	Aspect	Mitigation and management measures
Detailed design	Erosion and sediment control	■ Develop a draft Soil Management Plan which includes the following procedures and protocols: – Management of problem soils, such as: ■ Acid sulfate soils, which may occur in proximity to wetland features and water storages ■ Erosive or dispersive soils, such as sodosols that are expected to be encountered between the Macintyre River and Yelarbon as well as along the fertile lands north of Inglewood to the west of Kooroongarra ■ Cracking clays (vertisols) that are expected to be encountered between Koorongara and Millmerran and from Yandilla to Gowrie ■ Saline soils, particularly in high salinity hazard areas such as between Kurumbul and Yelarbon. – Specification of the type and location of erosion and sediment controls. The overarching erosion and sediment control measures will be developed by a Certified Professional in Erosion and Sediment Control and be in accordance with the International Erosion Control Association <i>Best Practice Erosion and Sediment Control</i> (2008). The Soil Management Plan will include: ■ Locations for specific temporary/permanent erosion and sediment control measures, such as: – Sediment retention basins – Scour protection (included in the revised reference design) – Sediment fencing – Berms and other surface flow diversions. ■ Nomination of location-specific erosion controls will include consideration of site conditions, proximity to environmental receptors, adjoining land uses, climatic and seasonal factors, and will be based on an erosion risk assessment ■ Minimise the area of disturbance during each stage to that required to enable the safe construction, operation and maintenance of the rail corridor: – Scheduling of works with consideration to periods of higher rainfall (summer months) – Establish and specify the monitoring and performance objectives for handover on completion of construction – Stockpiling and management/segregation of topsoil where it contains native plants seedbank or weed material. – Requirements for training, inspections, corrective actions, notification and classification of environmental incidents, record keeping, monitoring and performance objectives for handover on completion of construction. ■ Wherever a potential salinity risk is identified, the following management measures should be implemented: – Temporary earthworks and permanent landform for the Project are designed to avoid unwanted water ponding. This objective will be achieved through surface levelling and use of cross-drainage and longitudinal drains within the rail corridor – Design water retention structures, such as sediment basins, to prevent downward leakage of water, with the use of lining or similar – Avoiding, where possible, the need for diversions or alterations to water resources.

Delivery stage	Aspect	Mitigation and management measures
	Interference with existing surface water	■ The revised reference design will be further developed during detailed design to: – Minimise the potential for diversion of watercourses, (as defined under the Water Act), and waterways (as defined under the Fisheries Act) – Minimise the extent of impacts to waterways, riparian vegetation and in-stream flora and habitats, in accordance with the intent of: ■ <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023). – Site-specific risk assessments for each waterway crossing will be performed after the construction timing and methods have been determined. The proponent commits to develop an assessment procedure that considers site-specific attributes (topography, soil conditions, water quality, in-stream habitat and aquatic ecology, ephemeral nature, fish passage, sediment loading type and intensity of construction works) to minimise risks and impacts on the watercourse and its ecology. Construction procedures will follow the recommended procedures to be provided in the Project Soil Management Plan. – An in-stream monitoring program for flora and fauna will be developed in detailed design to inform design and management measures to be used at proposed waterway crossing activities during construction.
	Water quality	■ A Surface Water Management Sub-plan will be developed during the detailed design stage to guide the future revisions and incorporation into the Construction Environmental Management Plan (CEMP). The Sub-plan will provide a surface water monitoring framework, as discussed in Section 7.3. The Surface Water Reporting will be prepared in accordance with the requirements for Receiving Environment Monitoring Program as per the DES guideline (2014). The proposed Receiving Environment Monitoring Program is to be established for the Project during detailed design. ■ The surface water monitoring framework should align, where appropriate, with the in-stream monitoring program. The in-stream monitoring program is to be developed for the purposes of monitoring impacts to riparian vegetation, aquatic fauna and habitats. It will be developed in detailed design to inform design and management measures to be used at proposed waterway crossing activities during construction. ■ The Surface Water Management Sub-plan will include spill prevention measures (see 'construction works' stage of this table), as well as spill response procedures (should an accidental discharge take place) as follows: – <i>Report the incident to relevant supervisor. If warranted, evacuate the area and follow emergency procedures, i.e. calling '000'</i> – <i>Control the source of the spill to stop continued loss of the chemical/material</i> – <i>Contain the chemical/material that has been spilled to prevent further spread</i> – <i>Clean up the spilled chemical/material, for disposal to a licenced waste management facility.</i> ■ The Surface Water Management Sub-plan will include development of a spill management and discharge permitting system to reduce the risk of accidental discharge from site.
	Availability of water to users	■ The revised reference design will be further developed during detailed design to avoid, where practicable, impacts to private water storages so that affected landowners retain access to existing natural resources ■ If impacts to access to existing natural resources cannot be avoided through design, appropriate compensation arrangements will be discussed and agreed with the relevant impacted landowner ■ Where the Project will result in disturbance to private surface water storages (e.g. dams), ARTC will consult with the owners of relevant, legal storage structures prior to works commencing to agree an approach to decommissioning or relocation of the structure. This may also include the usage or relocation of stored water and compensation (if applicable).

Delivery stage	Aspect	Mitigation and management measures
	Construction water	■ The construction water requirements (volumes, quality, demand curves, approvals requirements and lead times) will be confirmed through reviews of the detailed design and the construction approach refinement process and will be documented in a Construction Water Plan to be developed during the detailed design stage. – The refinement process will assess the suitability of each potential source, based on the following considerations: ■ Available volume from identified source ■ Legal access ■ Volumetric requirement for the activity ■ Water quality requirement for the activity ■ Source location relative to the location of need. – Licences, approvals and agreements to access water from sources identified in the finalised Construction Water Plan will be obtained. These may include seasonal water assignments and/or water licences under the Water Act or access agreements with bulk water suppliers or private landowners. ■ ARTC commits to consulting with the relevant stakeholders including councils where relevant, regarding the management of wastewater including options for treatment, reuse, and disposal.
	Rehabilitation	■ A Rehabilitation and Landscaping Management Sub-plan will be developed for the Project, during detailed design and implemented as a component of the CEMP. This Sub-plan will be based on the Inland Rail Landscape and Rehabilitation Strategy, in addition to location and property specific reinstatement commitments. The Plan will include and clearly identify: – Location-specific objectives for rehabilitation, reinstatement and/or stabilisation – Objectives and timeframes for rehabilitation and/or reinstatement/stabilisation works (including biodiversity, vegetation establishment and erosion and sediment control outcomes to be achieved) – Details of the actions and responsibilities to progressively rehabilitate, regenerate, and/or revegetate areas, whilst minimising the duration of exposure in disturbed areas – Include rehabilitation requirements such as: ■ Milling and removal of bitumen pavement ■ Removal of any decommissioned culverts ■ Tying and ripping of base and sub-base material ■ Application of soil ameliorants ■ Topsoiling and/or compost blanket ■ Stabilisation and rehabilitation (e.g. planting and or seeding). – Consideration for maintenance or performance issues of rehabilitation – Sourcing of water for rehabilitation and landscaping purpose from a sustainable, under applicable permits or licences, or in accordance with exemption requirements – Procedures, timeframes, measurable performance objectives and responsibilities for monitoring the success of rehabilitation and/or reinstatement/stabilisation areas – Corrective actions if the outcomes of rehabilitation and/or reinstatement/stabilisation are not achieved.

Delivery stage	Aspect	Mitigation and management measures
		Where temporary construction facilities/borrow pits are required, land will be returned to a stable condition that complies with the conditions of applicable landowner agreements and regulatory approvals (e.g. development approval and/or Environmental Authority).
	Registered water users	- Confirm with the owners of water infrastructure on the impacted properties, the intended purpose of the water and any associated water authorisations. Ensure that the landholder is made aware that: - If a water licence attaches to land and the licensee ceases to be an owner of the land, on the day the licensee ceases to be the owner—(a) the licensee ceases to be the holder of the water licence; and (b) the registered owner of the land becomes the new licensee. - When ownership of part of a property is transferred, the water licence for the property may then be associated with multiple lots, and the water licence may need to be amended before the transfer of the land or it will be held jointly by the buyer and seller after the transfer. - Water authorisation associated with land parcel will be null and void as a result of the land acquisition process. - Identify landholders willing to provide construction water to the Project, including briefing the landholder on potential amendments required to the existing authorisations - Where applicable, engage with any downstream landholders deemed at risk from the Project (e.g. where the Project may impact on instream or overland flow) (Section 6.3) - Inform the contractor of existing water infrastructure and authorisations attached to a land parcel.
Pre-construction activities and early works	Erosion and sediment control	Install initial erosion and sediment controls in support of planning minor civil works, e.g. establishing laydown areas, in accordance with the Soil Management Sub-plan.
Construction	Erosion and sediment control	- Implement the Soil Management Sub-plan, including erosion and sediment controls - Install permanent longitudinal drains and erosion control measures, such as sediment retention basins scour protection and clean water diversions in accordance with the erosion and sediment control plans, during detailed design - Monitor the effectiveness of erosion controls installed as part of the environmental inspection schedule for the Project, as prescribed in the CEMP - Controls that are found to be failing or not performing as intended will either be modified or replaced, as required - Clearing extents are limited to the Project footprint, and clearing is scheduled to minimise the exposure time of unprotected earth to prevent sedimentation of receiving waterways - Where practical, vegetation clearing, and ground disturbing works will be staged sequentially across the Project to minimise areas exposed to erosion and sediment risk of receiving waterways - As part of the Rehabilitation and Landscape Management Sub-plan, where required, surfaces will be consolidated through either landscape, drainage and or pavement designs to reduce risks of operation and maintenance-related erosion and sediment control - Surface profiling of the site will occur, to prevent inadvertent ponding of water, and resultant erosion arising from concentrated flows or exacerbation of salinity.

Delivery stage	Aspect	Mitigation and management measures
	Dewatering	- Where the dewatering of excavations (e.g. trenches and pier holes) is required, water will need to meet the established WQOs for receiving waterways before being released/discharged into local waterways - If dewatering of existing storages is required, dewatering strategies will be required to comply with the <i>Biosecurity Act 2014</i> to take reasonable measures to avoid the spread of pest species, e.g. screening of pump intake.
	Construction water	- The extraction of water will occur in accordance with licences, approvals and/or agreements - Volume monitoring during extraction will be required for each source point, with extraction logs maintained - Extraction reporting will occur, as required, in accordance with requirements of relevant licences, approvals and/or agreements obtained to cover this activity - Ensure efficient water application, so as to avoid prolonged oversaturation of soils within and adjoining the Project footprint.
	Water quality	- Implementation of the Surface Water Management Sub-plan - Water will need to meet the established WQOs for receiving waterways before being released/discharged into local waterways. Water that does not comply with relevant WQOs will either be: - Treated onsite to enable discharge - Removed from site for disposal at an appropriately licenced facility. - Water that is dispersed for vegetation establishment, landscaping and rehabilitation will be consistent with the quality requirements specified for irrigation and general water use in the <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> (ANZG, 2018). - Bulk storage areas for dangerous goods and hazardous materials will be located away from areas of social and environmental receptors such that offsite impacts or risks from any foreseeable hazard scenario will not exceed the dangerous dose for the defined land use zone, i.e. either sensitive, commercial/community, or industrial, in accordance with the intent of the SPP and <i>State code 21: Hazardous chemical facilities</i> (Department of State Development, Infrastructure, Local Government and Planning, 2022). - Licensed transporters operating in compliance with <i>Australian Code for the Transport of Dangerous Goods by Road & Rail</i> will be utilised for the transportation of dangerous goods - Chemicals stored and handled as part of construction activities will be managed in accordance with: - The <i>Work Health Safety Act 2011</i> (Qld) and Regulation <i>AS 2187.1:1998 Explosives—Storage, transport and use: Part 1: Storage</i> (Standards Australia, 1998) <i>AS 2187.2:2006 Explosives—Storage, transport and use: Part 2: Use of explosives</i> (Standards Australia, 2006) <i>AS 1940:2017 The storage and handling of flammable and combustible liquids</i> (Standards Australia, 2017a) <i>AS 3780:2008 The storage and handling of corrosive substances</i> (Standards Australia, 2008a) - The requirements of chemical safety data sheets. - Procedures will be established for safe and effective fuel, oil and chemical storage and handling. This includes storing these materials within roofed, bunded areas. The bunding will have floors and walls that are lined with an impermeable material to prevent leaching and spills - Construction tasks will be scheduled to avoid, where possible, bulk earthwork activities within the 1% AEP during periods of elevated flood risk. Where works cannot be scheduled outside of this time period, activity-specific flood readiness and response planning will be required. This planning will be developed in consultation with the relevant local government and Queensland Fire and Emergency Services.

Delivery stage	Aspect	Mitigation and management measures
		■ Laydown areas and other construction facilities that are located within the 1% AEP will be temporary. Their planning and function in supporting construction will reflect the local flood risk. For example, hazardous goods will not be bulk stored in these locations. ■ Mobile plant will not be stored in the 1% AEP when not scheduled to be in use for construction purposes ■ Plant maintenance and refuelling will be carried out a minimum of 50 m from riparian vegetation and waterways, with appropriate interception measures in place to avoid impacts to waterways, aquatic habitats, and groundwater. Appropriate spill control materials including booms and absorbent materials will be onsite at refuelling facilities at all times. ■ Appropriate waste bins will be located in laydown areas to facilitate segregation and appropriate containment of waste materials ■ Inclusion to surface water management sub-plan, of the development of spill management and discharge permitting system to reduce the risk of accidental discharge from site. This is to include an incident response management procedure (should an accidental discharge take place). ■ Implementation, where practicable, of a 10 m exclusion area from Top of Bank associated with any waterways within the Project footprint.
	Rehabilitation	■ Reinstatement, stabilisation and rehabilitation of disturbed areas will be undertaken progressively, consistent with the Rehabilitation and Landscaping Management Sub-plan.
Operation	Water quality	■ Drainage structures will be inspected to assess physical condition, performance and structural integrity, with corrective measures implemented, as required. Maintenance of surface and subsurface drains will be required to ensure continued effectiveness and to minimise risk of impact to surrounding and downstream environments and structures. ■ Maintenance of plant, rollingstock and railway infrastructure will be carried out with appropriate interception measures in place to avoid impacts to waterways, aquatic habitats and groundwater. Appropriate spill control materials, including booms and absorbent materials, will be onsite at all times during maintenance activities. ■ Spill response procedures (should an accidental discharge take place) will be implemented, as follows: – Report the incident to relevant supervisor. If warranted, evacuate the area and follow emergency procedures, i.e. calling '000' – Control the source of the spill to stop continued loss of the chemical/material – Contain the chemical/material that has been spilled to prevent further spread – Clean up the spilled chemical/material, for disposal to a licenced waste management facility. ■ Mass discharge events (e.g. train derailment) will be responded to in a coordinated manner, with ARTC adopting the role of lead coordinator, with involvement of rollingstock operators, emergency service providers, local council representatives and State agency representatives, as relevant and necessary.
	Erosion and sediment control	■ The effectiveness of permanent erosion controls (e.g. scour protection or vegetated swales) will be monitored as part of the maintenance inspection schedule for the Project, as prescribed in the Operation EMP ■ Controls that are found to be failing or not performing as intended will either be modified or replaced, as required ■ The integrity of rail embankments will be maintained to prevent slope face scour and degradation.

7.3 Surface water monitoring program

The surface water monitoring program will provide for an ongoing assessment of the potential for surface water impacts, as discussed in Section 6. This section provides an overview of the additional baseline and surface water monitoring that will be conducted for the Project.

ARTC commits to provide a detailed monitoring strategy for each water crossing during construction, once exact locations and timeframe of construction works are established. Site specific mitigation measures for each crossing location will be developed to allow for individual site characteristics and impact level of construction activities (described in Section 7.1). Considerations for the site-specific crossing impact assessments will include the below and will be documented in a Surface Water Management Sub-plan supporting the CEMP.

- Water Quality Objectives
- Aquatic Fauna and Flora
- Environmental values including aesthetic quality of downstream water bodies
- Soil salinity
- Flow regime
- Sediment loading
- Elevated exposure to nutrients and toxicants
- All work will be in accordance with *Accepted development requirements for operational work that is constructing or raising waterway barrier works* (DAF, 2018)
- Projects works in accordance with Surface Water Management Sub-plan, Soil Management Sub-plan, Rehabilitation and Landscaping Sub-plan, and erosion and sediment control measures.

7.3.1 Baseline surface water monitoring

A program of baseline surface water monitoring has been undertaken to enable interim site-specific WQOs to be derived. Additional water quality sampling will be required prior to construction to enable full calculation of site-specific WQOs. The *Queensland Water Quality Guidelines 2009* specifies that 18 data points over a two-year period should be used to derive site-specific WQOs. The proponent is committing to perform monthly baseline water quality monitoring until construction activities for the project are completed.

The locations of sampling will endeavour to be consistent with those adopted for the previous baseline sampling, as identified in Table 3.3. If, following detailed design, previous sites are no longer considered to be representative of surface water conditions in the Project footprint, then such locations will be changed for alternative locations that are closer to the Project footprint.

Surface water quality data will be collected at accessible sites in accordance with the *DES Monitoring and Sampling Manual* (2018a). Field personnel undertaking the surveys will be experienced in the collection and analysis of water quality samples.

At each sampling location, the same site characteristics will be recorded and in-field measurements will be collected as have been collected for the previous baseline sampling (Section 3.1). Additionally, samples will be collected for laboratory analysis, to be subject to the same suite of analysis the previous baseline sampling (Section 3.1).

Reporting will be done in accordance with the requirements for Receiving Environment Monitoring Plans as per the DES guideline (2014). The Receiving Environment Monitoring Plan will cover the following items:

- Aims and objectives
- Description of the project and relevant activities
- Description of the receiving waters

- Monitoring program design
 - Locations of monitoring sites
 - Sampling frequency and timing
 - Water quality indicators
 - Sampling methods including QA/QC procedures
 - Analysis and interpretation of results
 - Reporting requirements.

7.3.2 Construction surface water monitoring

To provide a robust water quality monitoring during construction activities, targeted real time monitoring surveys will be performed in addition to regular baseline monitoring. The locations, frequency and parameters of interest for water quality sampling during construction will be subject to confirmation as part of the CEMP, to be reviewed and accepted by the Project Environmental Monitor.

The frequency and location of surface water sampling during construction of the Project will be established with consideration for:

- Construction activities with potential to impact water quality
- Seasonality
- Sensitivity of receiving watercourse.
- Flow characteristics.

It is proposed that water quality sampling be limited to in-situ field parameters that can be sampled by a probe in the first instance (i.e. DO, pH, EC, temperature, turbidity, TDS and ORP) to provide instant results and evaluation of potential impacts from construction activities. Probes allow water quality changes to be immediately identified and the range of parameters measured is typically sufficient to identify the contaminant source and to help to inform mitigation measures. Where exceedances of WQOs are recorded that cannot be attributed to natural background conditions, i.e. water quality values downstream of the construction site vary by +/- 20% from upstream water quality values, then corrective mitigation measures and additional sampling may be warranted.

Corrective action procedures for patterns of WQO exceedance that can be attributed to the Project will be agreed with the Environmental Monitor prior to commencement of construction and documented in the CEMP. Quality assurance/quality control, data control and reporting requirements will also be agreed and included in the CEMP.

8 Impact assessment summary

Potential impacts on surface water associated with the Project in the construction works and operations stages are outlined in Table 8.1. These impacts have been subjected to risk assessment as per the methodology in Section 3.1.5.

The initial risk assessment assumes that the design considerations (or initial mitigation measures) factored into the revised reference design for the Project (Section 7.1) have been implemented.

Additional mitigation and management measures (Table 7.1) were then applied to future stages of the Project to further reduce the level of potential impact and derive a residual significance of impact.

The initial and residual significance of potential impacts are presented in Table 8.1 to demonstrate the effectiveness of mitigation measures. Each potential impact is assessed for moderate and high sensitivity receptors. High sensitivity receptors being waterways with habitat values that support MNES and MSES, i.e. sections of Macintyre River, Macintyre Brook, Canning Creek and the Condamine River that intersect with the Project footprint. All other waterways are regarded as moderate sensitivity receptors.

Impacts on water quality are based on a model of expected occurrences, regarding projected impacts (potential and specific) from Project activities. As such, critical failure of infrastructure is not considered a viable impact for impact significance assessment.

Table 8.1 Initial and residual impact significance assessment for surface water

Aspect	Potential impact	Specific impact	Stage	Sensitivity	Initial impact significance ¹		Residual impact significance of risk ²	
					Magnitude	Significance	Magnitude	Significance
Erosion and sediment control	Increased debris	Contamination of waterway from debris from the Project to be blown into or washed into waterway	Pre-construction activities and early works & construction works	Moderate	Low	Low	Negligible	Low
			Operations					
			Pre-construction activities and early works & construction works	High ³	Low	Moderate	Negligible	Low
			Operations					
		Restriction of flow within the waterways if too much debris is introduced to waterway or is stuck in culverts or creek crossings	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
			Operations					
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low
			Operations					
Water quality Waterways	Changes to receiving water quality and hydrology	Changes to receiving water quality from dewatering of artificial waterbodies	Pre-construction activities and early works & construction works	Moderate	Low	Low	Low	Low
Erosion and sediment control Water quality	Increase in salinity	Increased salinity in proximal watercourses from land disturbance	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
				High ³	Moderate	High	Negligible	Low
Erosion and sediment control Water quality Waterways	Increase in contaminants	Contamination of waterway from inadequate storage of fuels, oils and contaminants	Pre-construction activities and early works & construction works	Moderate	Low	Low	Negligible	Low
			Operations					
			Pre-construction activities and early works & construction works	High ³	Low	Moderate	Negligible	Low
			Operations					
		Runoff from areas of disturbed contaminated lands nearby waterways	Pre-construction activities and early works & construction works	Moderate	Low	Low	Negligible	Low
			Pre-construction activities and early works & construction works	High ³	Low	Moderate	Negligible	Low

Aspect	Potential impact	Specific impact	Stage	Sensitivity	Initial impact significance ¹		Residual impact significance of risk ²			
					Magnitude	Significance	Magnitude	Significance		
		Introduction of contaminants from stockpiled areas	Pre-construction activities and early works & construction works	Moderate	Low	Low	Negligible	Low		
			Pre-construction activities and early works & construction works	High ³	Low	Moderate	Negligible	Low		
		Contaminants can enter waterways after rainfall events from rolling stock or after weed control activities	Operations	Moderate	Moderate	Moderate	Negligible	Low		
			Operations	High ³	Moderate	High	Negligible	Low		
		Potential contamination of waterways from failed equipment or from failed infrastructure	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low		
			Operations							
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low		
			Operations							
		Erosion and sediment control General interference with existing surface water	Increases in erosion and sedimentation	Disturbance of the bed, banks and riparian zone of waterways	Pre-construction activities and early works & construction works	Moderate	High	High	Negligible	Low
					Operations		Moderate	Moderate	Negligible	Low
Pre-construction activities and early works & construction works	High ³				Moderate	High	Negligible	Low		
Operations					Moderate	High	Negligible	Low		
Increased turbidity and sedimentation; and potential mobilisation of contaminants through erosion from disturbance activities near waterways	Pre-construction activities and early works & construction works			Moderate	High	High	Negligible	Low		
	Operations				Moderate	Moderate	Negligible	Low		
	Pre-construction activities and early works & construction works			High ³	Moderate	High	Negligible	Low		
	Operations				Moderate	High	Negligible	Low		
Increased turbidity and potential mobilisation of contaminants from stockpiled areas	Pre-construction activities and early works & construction works			Moderate	Moderate	Moderate	Negligible	Low		
	Pre-construction activities and early works & construction works			High ³	Moderate	High	Negligible	Low		

Aspect	Potential impact	Specific impact	Stage	Sensitivity	Initial impact significance ¹		Residual impact significance of risk ²	
					Magnitude	Significance	Magnitude	Significance
		Soils exposed through construction activities, leading to increased scour and erosion risk through overland flow (dispersive sodic soils main type along the Project footprint)	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low
		Increased turbidity and potential mobilisation of contaminants from dewatering activities near excavations	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low
		Increased sedimentation can impact the function of culverts/creek crossing and impede flow of the waterway	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
			Operations		Low	Low	Negligible	Low
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low
			Operations		Low	Moderate	Negligible	Low
Erosion and sediment control	Exacerbation of listed impacts above, from inadequate rehabilitation processes	Potential for sedimentation and increased turbidity within waterways if areas are either not rehabilitated or inadequate rehabilitation occurs	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
			Operations					
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low
			Operations					
		Inadequate rehabilitation increasing erosion and sedimentation within waterways impacting the function of culverts/creek crossing and impeding flow of the waterway	Pre-construction activities and early works & construction works	Moderate	Moderate	Moderate	Negligible	Low
			Operations					
			Pre-construction activities and early works & construction works	High ³	Moderate	High	Negligible	Low
			Operations					

Aspect	Potential impact	Specific impact	Stage	Sensitivity	Initial impact significance ¹		Residual impact significance of risk ²	
					Magnitude	Significance	Magnitude	Significance
Waterway morphology	Alteration to the structure and function of waterways	Alteration to the structure of waterways, through diversions or introduction of infrastructure elements into the bankfull width, has potential to impact the physical characteristic of a waterway	Pre-construction activities and early works & construction works	Moderate and High ³	Moderate	High	Negligible	Low
			Operations		N/A	N/A	N/A	N/A
Water availability	Extraction of water for construction	Extraction of water, from multiple surface water sources, for the purpose of supporting construction activities has the potential to reduce the availability of water for other users within the relevant basins, if not planned and managed appropriately	Pre-construction activities and early works & construction works	Moderate and High ³	Moderate	High	Negligible	Low
			Operations		N/A	N/A	N/A	N/A

Table notes:

1 Includes implementation of design mitigation specified in Section 7.1

2 Includes proposed mitigation measures specified in Table 7.1

3 Macintyre River, Macintyre Brook, Canning Creek and the Condamine River

9 Cumulative impacts

It is a requirement for this Project that the potential for cumulative impacts be considered. This section provides a discussion on the potential for cumulative impacts in relation to surface water quality. Details on the assessment methodology for cumulative impacts is presented in Section 3.4.

Projects with spatial and/or temporal overlap can result in cumulative impacts. Cumulative impacts may:

- Differ from those of an individual project when considered in isolation
- Be positive or negative
- Differ in severity and duration depending on the spatial and temporal overlap of projects occurring in an area.

Twenty-nine projects were initially identified as having potential to contribute to cumulative impacts in combination with the Border to Gowrie project. These projects are either currently operational, expected to undergo future expansion or are currently going through an approval process.

For the purposes of surface water quality, projects that will have temporal overlap in construction or expansion activities and may cause impacts to existing EVs that are additive to impacts from the Project are considered to have potential to result in cumulative impacts. Only 8 of the initial 29 projects identified meet these criteria. These projects are listed in Table 9.1.

Table 9.1 Projects considered within the cumulative assessment

Projects	Location	Description	Construction dates
New Acland Coal Mine Stage 3	35 km northwest of Toowoomba 18 km north of the Project footprint	Expansion of the existing New Acland open-cut coal mine to up to 7.5 million tonnes/annum.	The mine is operational. Stage 3 expansion works will proceed if legal proceeding end favourably for New Acland Coal
InterLinkSQ	13 km west of Toowoomba The northern limit of the Project is situated adjacent to the InterLinkSQ site	200 ha of new transport, logistics and business hub. Located on the narrow-gauge regional rail network and interstate network. Located at the junction of the Gore, Warrego and New England Highways.	2018 to unknown. Assumed to continue development until Inland Rail is operational
Asterion Medicinal Cannabis Facility	Wellcamp, QLD Adjoins the Project footprint 1 km south of Toowoomba-Cecil Plains Road	A high-tech medicinal cannabis cultivation, research and manufacturing facility. The project involves construction of a 40 ha glasshouse to produce 20,000 plants per day at full capacity. Medicinal grade cannabis grown at the facility will be manufactured into a range of medicinal products, including single patient packs, cannabis oils, gels, salts and related products, destined solely for the medicinal market. This facility is anticipated to be the largest facility of its kind in the world.	2020 to 2021
Commodore Mine and Millmerran Power Station	Domville, Queensland The Project is aligned adjacent to potential future coal reserves for the mine	The Commodore Mine is an open cut coal mine which provides coal for the 850 Mega Watts Millmerran Power Station. The Millmerran Power Station is a coal-fired power station that supplies enough electricity to power approximately 1.1 million homes.	Subject to annual maintenance shutdown and continual pit expansion. Also potential for coal reserves to be accessed beyond the current mine footprint

Projects	Location	Description	Construction dates
Goondiwindi Abattoir	Goondiwindi, QLD 13 km north of the Project footprint	A new beef abattoir located on the outskirts of Goondiwindi with beef processing of up to 72,000 tonnes per year.	Unknown
Wagners Intermodal terminal	Wellcamp, QLD Adjoins the Project.	Major freight terminal designed to benefit the freight network.	Unknown
North Star to Border (Inland Rail) – ARTC	Rail alignment from North Star, NSW to the NSW/QLD border Adjoins the Project at its southern limit	37 km single-track dual-gauge freight rail line as part of the ARTC Inland Rail Program.	2021 to 2024
Gowrie to Helidon (Inland Rail) – ARTC	Rail alignment from Gowrie to Helidon, QLD Adjoins the Project at its northern limit	26 km single-track dual-gauge freight railway as part of the ARTC Inland Rail Program	2021 to 2025

Water quality sampling has been undertaken to inform the baseline water quality conditions for the impact assessment area. Therefore, existing developments operating at their current scale and intensity have been factored into the establishment of background water quality conditions and the assessment of Project impacts.

Each of the projects listed in Table 9.1 has potential to result in one or more of the following impacts, which may overlap with those from that could occur due to the Project:

All of these projects may result in an extent of:

- Riparian vegetation loss reducing ecosystem services to water quality
- Impacts to aquatic fauna species through water quality and barrier works
- Reduction in waterway connectivity
- Increase in erosion and sedimentation of waterways
- Increase in contamination of waterways
- Saline discharge into proximal waterway (intra-catchment)
- Increase in surface expression within alluvial waterways.

An assessment of cumulative impacts that may arise from these projects in combination with the Project is presented in Table 9.2, with a summary of how potential cumulative impacts would be managed. This assessment has concluded that the cumulative surface water impacts of the Project are expected to be of Low to Medium Significance. The following factors contributed to this determination:

- Riparian vegetation loss from vegetation clearing/removal – loss of ecosystem service to water quality:

A potential exists for a cumulative impact from the loss of sensitive receptors (riparian vegetation communities) with works involving waterways and associated crossings across the projects. Impacts may be compounded with interface between the Project and other listed projects in regard to decreased resilience to biotic and abiotic factors. Potential consequences include loss of bank stability, loss of diversity and reduction in water quality values due to decreased performance of ecosystem services to water quality. The proximity of other projects to watercourses and inadequate rehabilitation on those projects and the Border to Gowrie Project would result in the highest risk of significant cumulative impact.

Interaction of impacts leading to a loss of ecosystem services or water quality are considered possible between the Project and the New Acland Coal Mine Stage 3 expansion, Asterion Medicinal Cannabis Facility, InterLinkSQ, Commodore Mine and Millmerran Power Station operations, and construction of the North Star to NSW/QLD Border and Gowrie to Helidon sections of Inland Rail.

- Potential impacts to aquatic fauna species both through impacts to water quality and barrier works:

There is potential for cumulative downstream impacts from water quality issues associated with overland works and waterway barrier works, if not appropriately managed. Cumulative impacts would be expected to occur in relatively short spatial distances (as cumulative point-source impacts) and would be expected to 'dilute' with increasing distance downstream from point source impact.

It is expected that cumulative impacts would be expected to occur between projects linked spatially and temporally during construction. As such, the current Project and North Star to NSW/QLD Border and Gowrie to Helidon sections of Inland Rail are expected to generate cumulative impacts, as well as Asterion Medicinal Cannabis Facility, Wellcamp Airport projects and InterLinkSQ.

- Permanent reduction in the connectivity of waterways:

There is potential for impact if not appropriately managed due to multiple permanent crossings, or temporary disturbances of waterways. If left unmanaged, these impacts would progressively accumulate between projects. Whole catchments may be impacted from separate projects on separate waterways. However, the greatest cumulative impacts would be expected where there is spatial interface between separate projects. Water quality degradation may arise from reduced waterway connectivity and the associated decrease in ecosystem resilience.

Cumulative impacts are most likely to arise due to projects in proximity to waterways that are crossed by the Border to Gowrie project, being the New Acland Coal Mine Stage 3 expansion, Asterion Medicinal Cannabis Facility, InterLinkSQ, Wellcamp Airport projects, Commodore Mine and Millmerran Power Station operations and construction of the North Star to NSW/QLD Border and Gowrie to Helidon sections of Inland Rail. Note that the Goondiwindi Abattoir is removed from this potential cumulative impact due to sub-catchment separation from the Project.

- Increase in erosion and sedimentation in waterways during construction:

Cumulative impacts may arise due to increase in waterway sedimentation from simultaneous construction activities within catchments. Cumulative impacts in regard to erosion may arise from impaction of waterway structure/hydrological regimes and may be further impacted by cumulative riparian vegetation loss.

Table 9.2 Summary of the cumulative impact assessment for surface water

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
New Acland Coal Mine Stage 3	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: ■ Rehabilitation and Landscaping Management Sub-plan ■ Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring ■ Soil Management Sub-plan, including erosion and sediment control measures ■ Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: ■ <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023) ■ <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (DAF, 2018) ■ Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply ■ The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Reduction in waterway connectivity	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Increase in surface salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
Asterion Medicinal Cannabis Facility	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: ■ Rehabilitation and Landscaping Management Sub-plan ■ Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring ■ Soil Management Sub-plan, including erosion and sediment control measures ■ Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: ■ <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023) ■ <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (DAF, 2018) ■ Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works.	Probability of the impact	Medium (2)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			
	Reduction in waterway connectivity	Probability of the impact	Low (1)	4	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Low (1)	4	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			
	Increase in waterway contamination	Probability of the impact	Low (1)	4	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Medium (2)	6	Low	The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in surface Salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
InterLinkSQ	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: - Rehabilitation and Landscaping Management Sub-plan - Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring - Soil Management Sub-plan, including erosion and sediment control measures - Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023)
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works.	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Reduction in waterway connectivity	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures	
	Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low	- Accepted development requirements for operational work that is constructing or raising waterway barrier works (DAF, 2018) - Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply	
		Duration of the impact	Low (1)				
		Magnitude/intensity of the impact	Low (1)				
		Sensitivity of the receiving environment	Medium (2)				
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Medium (2)	6	Low		The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)				
		Magnitude/intensity of the impact	Low (1)				
		Sensitivity of the receiving environment	Medium (2)				
	Increase in surface salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low		
		Duration of the impact	Low (1)				
		Magnitude/intensity of the impact	Low (1)				
		Sensitivity of the receiving environment	Medium (2)				
Commodore Mine and Millmerran Power Station	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Medium (2)	7	Medium		The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: - Rehabilitation and Landscaping Management Sub-plan - Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring
		Duration of the impact	Low (1)				
		Magnitude/intensity of the impact	Medium (2)				
		Sensitivity of the receiving environment	Medium (2)				
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works.	Probability of the impact	Low (1)	5	Low		
		Duration of the impact	Low (1)				
		Magnitude/intensity of the impact	Low (1)				
		Sensitivity of the receiving environment	Medium (2)				

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Reduction in waterway connectivity	Probability of the impact	Medium (2)	6	Low	■ Soil Management Sub-plan, including erosion and sediment control measures ■ Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: ■ <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023) ■ <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (DAF, 2018) ■ Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
Increase in surface salinity around alluvial waterways	Probability of the impact	Medium (2)	6	Low		
	Duration of the impact	Low (1)				
	Magnitude/intensity of the impact	Low (1)				
	Sensitivity of the receiving environment	Medium (2)				

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
Goondiwindi Abattoir	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Low (1)	6	Low	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: - Rehabilitation and Landscaping Management Sub-plan - Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring - Soil Management Sub-plan, including erosion and sediment control measures - Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023) <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (DAF, 2018) - Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Reduction in waterway connectivity	Probability of the impact	Low (1)	4	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Increase in surface salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
Wagners Intermodal terminal	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Low (1)	6	Low	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: ■ Rehabilitation and Landscaping Management Sub-plan ■ Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring ■ Soil Management Sub-plan, including erosion and sediment control measures ■ Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: ■ <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023) ■ <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (DAF, 2018) ■ Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Reduction in waterway connectivity	Probability of the impact	Low (1)	4	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low		
	Duration of the impact	Low (1)				
	Magnitude/intensity of the impact	Low (1)				
	Sensitivity of the receiving environment	Medium (2)				

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Low (1)	5	Low	The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in surface salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
North Star to Border (Inland Rail)	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: - Rehabilitation and Landscaping Management Sub-plan - Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring - Soil Management Sub-plan, including erosion and sediment control measures - Hazardous Materials Management Sub-plan The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023)
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Reduction in waterway connectivity	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in erosion and sedimentation of waterways	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low	- Accepted development requirements for operational work that is constructing or raising waterway barrier works (DAF, 2018) - Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in surface salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
Gowrie to Helidon (Inland Rail)	Riparian vegetation loss from vegetation clearing and /or removal	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative impacts during construction will be managed through development and implementation of the following, as part of the CEMP: - Rehabilitation and Landscaping Management Sub-plan - Surface Water Management Sub-plan, including the establishment of baseline conditions and construction works stage monitoring - Soil Management Sub-plan, including erosion and sediment control measures - Hazardous Materials Management Sub-plan
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
	Potential impacts to aquatic fauna species both through impacts to water quality and barrier works	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Reduction in waterway connectivity	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Project	Potential cumulative impact	Impact characteristic	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
	Increase in erosion and sedimentation of waterways	Probability of the impact	Medium (2)	6	Low	The potential for cumulative impacts during construction will also be managed during detailed design and construction in accordance with the following: ■ <i>Riverine protection permit exemption requirements</i> (WSS/2013/726) (DRDMW, 2023) ■ <i>Accepted development requirements for operational work that is constructing or raising waterway barrier works</i> (DAF, 2018) ■ Permit/approval conditions if either of the previous two listed requirements cannot be adhered to or do not apply The success of riparian rehabilitation for the Project will be monitored to ensure that its contribution to riparian vegetation loss is appropriately rectified.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in waterway contamination	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Saline discharge into proximal waterways (intra-catchment scope)	Probability of the impact	Medium (2)	6	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
	Increase in surface salinity around alluvial waterways	Probability of the impact	Low (1)	5	Low	
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Table notes:

- a Relevance factors between 1 and 3 were determined using professional judgement to select most appropriate relevance factor for each aspect and summing the relevance factors.
Sum of relevant factors definition:
- Low (1 to 6): Negative impacts need to be managed by standard environmental management practices. Monitoring to be part of general project monitoring program.
 - Medium (7 to 9): Mitigation measure likely to be necessary and specific management practices to be applied. Targeted monitoring program required, where appropriate.
 - High (10 to 12): Alternative actions should be considered and/or mitigation measures applied to demonstrate improvement. Targeted monitoring program necessary, where appropriate.
- b Impact significance is considered the residual impact after implementation of avoidance strategies and mitigation measures outlined in the comments and management measures.

10 Conclusions

The Project footprint traverses the Border Rivers and Condamine River basins. Existing surface water conditions within the impact assessment area have been established based on a review of published data and data which was collected for the Project through surface water monitoring and sampling. Sampling occurred over 18 separate sampling events between June 2018 and November 2021.

Review of historic and field assessed water quality data identified that surface waters within the impact assessment area do not currently achieve all WQOs for the protection of aquatic ecosystems within each basin.

All waterways within the impact assessment area have been identified as sensitive receptors within the receiving environment. Of these, a number of high sensitivity water quality receptors with associated EVs were identified within the impact assessment area. Associated EVs included MNES species and MSES wetlands. High sensitivity water quality receptors include the Macintyre River, Macintyre Brook, Canning Creek and the Condamine River.

It has been identified that the construction and operation of the Project has the potential to impact on surface water quality through:

- Increased debris
- Change to water quality and hydrology
- Alteration to the structure and function of waterways
- Extraction of water for construction
- Increase in salinity
- Increase in contaminants
- Increases in erosion and sedimentation
- Exacerbation of listed impacts above, from inadequate rehabilitation processes.

Additionally, the Project has potential to result in impacts to waterway morphology and the availability of surface waters for existing users.

A significance assessment was undertaken and assessed the residual impact of identified potential impacts with design considerations and additional mitigation measures in place. The assessment identified:

- During the construction works stage, the combination of design considerations and mitigation measures relevant to surface water quality would be sufficient to mitigate most potential impacts, such that the residual significance would be low
- For the operations stage, the combination of design considerations and mitigation measures relevant to surface water quality would be sufficient to mitigate most potential impacts, such that the residual significance would be low.

The significance impact assessment has identified that with design considerations and mitigation measures in place, the risk of significance of impact from construction works stage (including planning) and operations stage activities is low. It is not expected that significant residual impact on surface water quality will occur as a result of Project activities.

A cumulative impact assessment considering the impact of seven other Projects was carried out. The cumulative impacts of several projects within the impact assessment area included:

- Riparian vegetation loss from vegetation clearing/removal
- Potential impacts to aquatic fauna species both through impacts to water quality and barrier works
- Displacement of flora and fauna species from invasion of weed and pest species
- Reduction in the connectivity of waterways

- An increase in erosion and sedimentation in the waterways
- An increase in litter (waste)
- Saline discharge into proximal waterways
- An increase in surface salinity around alluvial waterways.

These potential impacts were all considered to have carry on impacts to surface water quality within the cumulative impact assessment area.

The cumulative impact assessment identified a medium risk of potential impact occurring during construction activities due to riparian vegetation loss from vegetation clearing/removal. It is considered that the potential for these impacts will be appropriately managed through application of the suite of mitigation measures proposed for the Project.

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APPENDIX S

Surface Water Quality Technical Report

Appendix A Surface water quality monitoring equipment calibration certificates

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Form: FRM-001
 Title: Water Quality Meter Calibration Certificate

Instrument make: YSI Professional Plus
 Display serial number: 14M100367
 Sonde serial number: 14M100051
 Calibrated by: D. MOORE
 Calibrated for (job no.): DPM18004 (BZG) - TRIP 1 START
 Date calibrated: 11/06/2018

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	19.4
pH 4	Dec 18	pH units	4.00	3.89	4.00	4.00
pH 7	Dec 18	pH units	7.02	6.84	7.02	7.02
pH 10	Dec 18	pH units	10.06	9.97	10.06	10.06
ORP	May 20	mV	240.2	239.2	240.2	240.2
SPC	Jan 19	µS/cm	1413	1340	1413	1413
Barometric pressure	N/A	mmHg		765.7	765.7	765.7
DO (zero)	N/A	%S	0.0	0.0	0.0	0.0
DO (sat.)	N/A	%S	100.0	94.5	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument in good condition. New batteries installed.

Signed: _____

Date: _____

Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. MOORE
Calibrated for (job no.)	DPM18004 (B26) - TRIP 1 FINISH
Date calibrated:	18/6/2018

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	18.0
pH 4	Dec 18	pH units	4.00	4.03	4.00	4.00
pH 7	Dec 18	pH units	7.03	7.00	7.03	7.03
pH 10	Dec 18	pH units	10.08	9.97	10.08	10.08
ORP	May 20	mV	241.2	240.3	241.2	241.2
SPC	Jan 19	µS/cm	1413	1414	1413	1413
Barometric pressure	N/A	mmHg		765.5	765.5	765.5
DO (zero)	N/A	%S	0.0	0.4	0.0	0.0
DO (sat.)	N/A	%S	100.0	104.4	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument maintained calibration. In good condition.

Signed: D. Moore

Date: 18/6/2018

Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	P. HANCOCK
Calibrated for (job no.):	DPM18004 (BZC) - TRIP 2 START
Date calibrated:	26/11/2018

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	—
pH 4	Apr 20	pH units	4.00	3.99	4.00	4.00
pH 7	Jun 20	pH units	7.01	7.29	7.01	7.01
pH 10	May 20	pH units	10.01	9.96	10.01	10.01
ORP	May 20	mV	230.7	305.6	230.7	230.7
SPC	Apr 20	µS/cm	1413	1324	1413	1413
Barometric pressure	N/A	mmHg	—	717.7	717.7	717.7
DO (zero)	N/A	%S	0.0	-0.4	0.0	0.0
DO (sat.)	N/A	%S	100.0	78.9	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument in good condition. Battery level adequate. Spare batteries inside case.

Signed: J. More

Date: 26/11/2018

Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. Moore
Calibrated for (job no.)	DPM18004 (B2C) - TRIP 2 FINISH
Date calibrated:	2/12/2018

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	23.8
pH 4	Apr 20	pH units	4.00	4.00	4.00	4.00
pH 7	Jun 20	pH units	7.01	6.91	7.01	7.01
pH 10	May 20	pH units	10.01	10.05	10.01	10.01
ORP	May 20	mV	233.4	231.7	233.4	233.4
SPC	Apr 20	µS/cm	1413	1408	1413	1413
Barometric pressure	N/A	mmHg	716.7	716.7	716.7	716.7
DO (zero)	N/A	%S	0.0	-0.2	0.0	0.0
DO (sat.)	N/A	%S	100.0	104.7	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument has maintained calibration. Instrument in good condition.

Signed: D. Moore

Date: 2/12/2018



Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. MOORE
Calibrated for (job no.):	DPM18004 (B2G) - TRIP 3 START
Date calibrated:	10/2/2019

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	25.3
pH 4	Apr 20	pH units	4.01	3.97	4.01	4.01
pH 7	Jun 20	pH units	7.00	6.92	7.00	7.00
pH 10	May 20	pH units	9.98	9.96	9.98	9.98
ORP	May 20	mV	227.7	227.5	227.7	227.7
SPC	Apr 20	µS/cm	1413	1509	1413	1413
Barometric pressure	N/A	mmHg	745.6	745.6	745.6	745.6
DO (zero)	N/A	%S	0.0	0.0	0.0	0.0
DO (sat.)	N/A	%S	100.0	100.6	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument in good condition. Batteries replaced.

Signed:

D. Moore

Date:

10/2/2019



Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. MOORE
Calibrated for (job no.):	DPM18004 (B26) - Trip 3 finish
Date calibrated:	15/2/2019

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	28.0
pH 4	Apr 20	pH units	4.01	4.06	4.01	4.01
pH 7	Jun 20	pH units	6.99	7.04	6.99	6.99
pH 10	Apr 20	pH units	9.97	9.99	9.97	9.97
ORP	May 20	mV	224.6	222.3	224.6	224.6
SPC	Apr 20	µS/cm	1413	1414	1413	1413
Barometric pressure	N/A	mmHg	754.7	754.7		
DO (zero)	N/A Mar 20	%S	0.0	-0.2	0.0	0.0
DO (sat.)	N/A	%S	100.0	101.6	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument has maintained calibration.
In good condition. Cleaned and stored for next use.

Signed: D. Moore

Date: 15/2/2019



Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. MOORE
Calibrated for (job no.)	DPM18004
Date calibrated:	28/4/2019 - Commencement of Trip 4

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	22.1
pH 4	10/20	pH units	4.00	4.21	4.00	4.00
pH 7	10/20	pH units	7.01	7.17	7.01	7.01
pH 10	10/20	pH units	10.03	10.21	10.03	10.03
ORP	2/21	mV	233.8	225.8	233.8	233.8
SPC	1/21	µS/cm	1413	2268	1413	1413
Barometric pressure	N/A	mmHg		—	758.84	758.84
DO (zero)	N/A	%S	0.0	-0.1	0.0	0.0
DO (sat.)	N/A 3/20	%S	100.0	109.0	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Last calibrated and used by Blue Earth Environmental. Advise BEE that their cal. solution for SPC needs replacing. Checked with two SPC cal. solution batches. Instrument in good condition.

Signed: J. Moore

Date: 28/4/2019



Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. Moore
Calibrated for (job no.)	DPR18004
Date calibrated:	3/5/2019 - Completion of Trip 4

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	22.3
pH 4	10/20	pH units	4.00	4.09	4.00	4.00
pH 7	10/20	pH units	7.01	7.05	7.01	7.01
pH 10	10/20	pH units	10.03	10.01	10.03	10.03
ORP	2/21	mV	235.0	239.5	235.0	235.0
SPC	1/21	µS/cm	1413	1402	1413	1413
Barometric pressure	N/A	mmHg		753.6	753.6	753.6
DO (zero)	N/A 3/20	%S	0.0	-0.3	0.0	0.0
DO (sat.)	N/A 3/20	%S	100.0	98.7	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument has maintained calibration. In good condition. Cleaned and stored for next use.

Signed: D. Moore

Date: 3/5/2019

Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	D. MOORE
Calibrated for (job no.):	DPM18004
Date calibrated:	15/5/2019 - Commencement of Trip 5

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	22.2
pH 4	10/20	pH units	4.00	4.01	4.00	4.00
pH 7	10/20	pH units	7.01	7.01	7.01	7.01
pH 10	10/20	pH units	10.03	10.02	10.03	10.03
ORP	2/21	mV	235.0	236.1	235.0	235.0
SPC	1/21	µS/cm	1413	1410	1413	1413
Barometric pressure	N/A	mmHg	769.6	769.6	769.6	769.6
DO (zero)	3/20	%S	0.0	-0.1	0.0	0.0
DO (sat.)	N/A	%S	100.0	99.7	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

In good condition. Calibrated and ready for use.

Signed: J. Moore

Date: 15/5/2019

Form:	FRM-001
Title:	Water Quality Meter Calibration Certificate
Instrument make:	YSI Professional Plus
Display serial number:	14M100367
Sonde serial number:	14M100051
Calibrated by:	
Calibrated for (job no.)	
Date calibrated:	

Parameter	Calibration standard expiry date	Units	Before calibration		After calibration	
			Expected value	Measured value	Expected value	Measured value
Temperature	Factory cal.	°C	N/A	N/A	N/A	
pH 4	10/20	pH units	4.00	4.03	4.00	4.00
pH 7	10/20	pH units	7.00	7.04	7.00	7.00
pH 10	10/20	pH units	10.05	10.09	10.05	10.05
ORP	2/21	mV	1413	1438	1413	1413
SPC	1/21	µS/cm	238.0	237.4	238.0	238.0
Barometric pressure	N/A	mmHg	763.4	763.5	763.4	763.4
DO (zero)	3/20	%S	0.0	-0.8	0.0	0.0
DO (sat.)	N/A	%S	100.0	98.8	100.0	100.0

The instrument has been inspected for visible signs of wear, damage, cleanliness, and condition, and is verified to be in good working order.

Comments on the instrument:

Instrument has maintained calibration. In good condition. Cleaned and stored for next use.

Signed: J. Moore

Date: 19/5/2019

APPENDIX S

Surface Water Quality Technical Report

Appendix B Surface water quality site investigation results

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Matrix:		WATER	Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Workgroup:	EB1814715		LS Sample Number:	EB1814715001	EB1814715002	EB1814715003	EB1814715004	EB1814715005	EB1814715006	EB1814715007	EB1814715008	EB1814715009	EB1814715010	EB1814715011	EB1814715012	EB1814715013	EB1814715014	EB1814715015	EB1814715016	
Project name/number:	10558 Inland Rail - Border to G		Sample Date:	13/06/2018	12/06/2018	12/06/2018	12/06/2018	14/06/2018	15/06/2018	13/06/2018	16/06/2018	16/06/2018	16/06/2018	17/06/2018	16/06/2018	15/06/2018	16/06/2018	16/06/2018	18/06/2018	
			lent sample ID (1st):	Site 14	Site 42	Site 40	Site 39	Site 30	Site 27	Site 16	Site 1R	Site 2R	Site 3	Site 6	Site 7	Site 11	DUP	FB	Site 24	
			lent sample ID (2nd):																	
			Depth Type:																	
			Depth (m):																	
			Site:																	
			Purchase Order:																	
Analyte grouping/Analyte	CAS Number	Unit	Limit of reporting																	
EA010P: Conductivity by PC Titrator																				
Electrical Conductivity @ 25°C		µS/cm	1	----	----	----	----	----	----	298	251	410	352	356	315	352	2	339		
EA020EC: Salinity																				
Salinity		g/kg	0.01	----	----	----	----	----	----	0.14	0.12	0.20	0.17	0.17	0.15	0.17	0.01	0.16		
EA025: Total Suspended Solids dried at 104 ± 2°C																				
Suspended Solids (SS)		mg/L	5	----	----	----	----	----	----	28	<5	<5	20	18	15	11	<5	98		
EA065: Total Hardness as CaCO3																				
Total Hardness as CaCO3		mg/L	1	----	----	----	----	----	----	78	58	69	55	60	56	60	<1	80		
ED093F: Dissolved Major Cations																				
Calcium	7440-70-2	mg/L	1	----	----	----	----	----	----	13	10	11	9	9	11	9	<1	14		
Magnesium	7439-95-4	mg/L	1	----	----	----	----	----	----	11	8	10	8	9	7	9	<1	11		
EG020F: Dissolved Metals by ICP-MS																				
Arsenic	7440-38-2	mg/L	0.001	----	----	----	----	----	----	0.002	0.002	<0.001	0.001	0.001	0.001	0.001	<0.001	<0.001		
Cadmium	7440-43-9	mg/L	0.0001	----	----	----	----	----	----	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Chromium	7440-47-3	mg/L	0.001	----	----	----	----	----	----	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Copper	7440-50-8	mg/L	0.001	----	----	----	----	----	----	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001		
Lead	7439-92-1	mg/L	0.001	----	----	----	----	----	----	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Nickel	7440-02-0	mg/L	0.001	----	----	----	----	----	----	0.002	0.002	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.005		
Zinc	7440-66-6	mg/L	0.005	----	----	----	----	----	----	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
EG035F: Dissolved Mercury by FIMS																				
Mercury	7439-97-6	mg/L	0.0001	----	----	----	----	----	----	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
EK055G: Ammonia as N by Discrete Analyser																				
Ammonia as N	7664-41-7	mg/L	0.01	----	----	----	----	----	----	0.02	0.02	0.04	0.03	0.04	0.02	0.04	<0.01	0.04		
EK057G: Nitrite as N by Discrete Analyser																				
Nitrite as N	14797-65-0	mg/L	0.01	----	----	----	----	----	----	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
EK058G: Nitrate as N by Discrete Analyser																				
Nitrate as N	14797-55-8	mg/L	0.01	----	----	----	----	----	----	<0.01	<0.01	<0.01	0.05	0.15	0.02	0.05	<0.01	<0.01		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser																				
Nitrite + Nitrate as N		mg/L	0.01	----	----	----	----	----	----	<0.01	<0.01	<0.01	0.05	0.15	0.02	0.05	<0.01	<0.01		
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser																				
Organic Nitrogen as N		mg/L	0.1	----	----	----	----	----	----	0.6	0.5	0.8	0.8	0.9	0.9	0.8	<0.1	0.5		
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser																				
Total Kjeldahl Nitrogen as N		mg/L	0.1	----	----	----	----	----	----	0.6	0.5	0.8	0.8	0.9	0.9	0.8	<0.1	0.5		
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser																				
Total Nitrogen as N		mg/L	0.1	----	----	----	----	----	----	0.6	0.5	0.8	0.8	1.0	0.9	0.8	<0.1	0.5		
EK067G: Total Phosphorus as P by Discrete Analyser																				
Total Phosphorus as P		mg/L	0.01	----	----	----	----	----	----	0.10	0.05	0.04	0.04	0.04	0.06	0.03	0.01	0.07		
EK071G: Reactive Phosphorus as P by discrete analyser																				
Reactive Phosphorus as P	14265-44-2	mg/L	0.01	----	----	----	----	----	----	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
EP008: Chlorophyll a & Pheophytin a																				
Chlorophyll a		mg/m³	1	<1	<1	<1	<1	<2	5	<4	<2	<1	<2	<2	<2	----	----	<4		
Volume		L	0.01	1	1	1	1	.6	.425	.275	.5	.8	.6	.475	.6	.4	----	.25		
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons																				
Naphthalene	91-20-3	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Acenaphthylene	208-96-8	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Acenaphthene	83-32-9	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Fluorene	86-73-7	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Phenanthrene	85-01-8	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Anthracene	120-12-7	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Fluoranthene	206-44-0	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Pyrene	129-00-0	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Benz(a)anthracene	56-55-3	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Chrysene	218-01-9	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Benzo(b)fluoranthene	205-99-2	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Benzo(k)fluoranthene	207-08-9	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Benzo(a)pyrene	50-32-8	µg/L	0.5	----	----	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	1.0	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		

Dibenz(a,h)anthracene	53-70-3	µg/L	1.0	----	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	µg/L	1.0	----	----	----	----	----	----	----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of polycyclic aromatic hydrocarbons		µg/L	0.5	----	----	----	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)		µg/L	0.5	----	----	----	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates																			
Phenol-d6	13127-88-3	%	1.0	----	----	----	----	----	----	----	23.5	24.4	25.2	23.2	20.2	21.0	22.4	21.7	21.2
2-Chlorophenol-D4	93951-73-6	%	1.0	----	----	----	----	----	----	----	66.8	67.9	69.3	63.0	57.2	58.6	64.5	61.7	60.3
2,4,6-Tribromophenol	118-79-6	%	1.0	----	----	----	----	----	----	----	43.0	39.7	39.2	36.0	32.4	32.8	36.2	36.9	32.3
EP075(SIM)T: PAH Surrogates																			
2-Fluorobiphenyl	321-60-8	%	1.0	----	----	----	----	----	----	----	76.3	80.3	80.7	73.6	70.4	71.2	78.6	68.2	72.2
Anthracene-d10	1719-06-8	%	1.0	----	----	----	----	----	----	----	77.6	78.4	77.2	72.6	68.3	69.3	78.5	69.2	72.1
4-Terphenyl-d14	1718-51-0	%	1.0	----	----	----	----	----	----	----	86.2	91.6	90.0	85.1	78.9	82.4	94.3	85.0	82.4

Matrix: Workgroup: Project name/number:	WATER EB1829378 Inland Rail - Border to Gowrie E	Sample Type: LS Sample Number: Sample Date: ient sample ID (1st): ient sample ID (2nd): Depth Type: Depth (m): Site: Purchase Order:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	
			EB1829378001	EB1829378002	EB1829378003	EB1829378004	EB1829378005	EB1829378006	EB1829378007	EB1829378008	EB1829378009	EB1829378010	EB1829378011	
			29/11/2018	27/11/2018	29/11/2018	28/11/2018	28/11/2018	27/11/2018	27/11/2018	29/11/2018	27/11/2018	26/11/2018	27/11/2018	
			14	2R	2	16	11	3	DUP	FB	6	33	7	
			10558	10558	10558	10558	10558	10558	10558	10558	10558	10558	10558	
Analyte grouping/Analyte	CAS Number	Unit	Limit of reporting											
EA010P: Conductivity by PC Titrator														
Electrical Conductivity @ 25°C		µS/cm	1	232	214	213	359	274	386	388	<1	411	198	416
EA020EC: Salinity														
Salinity		g/kg	0.01	0.11	0.10	0.10	0.17	0.13	0.19	0.19	<0.01	0.20	0.10	0.20
EA025: Total Suspended Solids dried at 104 ± 2°C														
Suspended Solids (SS)		mg/L	5	<5	43	27	56	14	<5	<5	<5	14	15	9
EA065: Total Hardness as CaCO3														
Total Hardness as CaCO3		mg/L	1	50	67	71	100	57	76	76	<1	79	59	79
ED093F: Dissolved Major Cations														
Calcium	7440-70-2	mg/L	1	5	12	12	27	13	14	14	<1	15	12	15
Magnesium	7439-95-4	mg/L	1	9	9	10	8	6	10	10	<1	10	7	10
EG020F: Dissolved Metals by ICP-MS														
Arsenic	7440-38-2	mg/L	0.001	0.001	0.003	0.003	0.001	0.001	0.002	0.002	<0.001	0.002	<0.001	0.002
Cadmium	7440-43-9	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	mg/L	0.001	<0.001	<0.001	0.002	0.002	<0.001	0.001	<0.001	<0.001	<0.001	0.004	<0.001
Lead	7439-92-1	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	mg/L	0.001	0.001	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	<0.001
Zinc	7440-66-6	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EG035F: Dissolved Mercury by FIMS														
Mercury	7439-97-6	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser														
Ammonia as N	7664-41-7	mg/L	0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	0.03	<0.01	0.03	<0.01
EK057G: Nitrite as N by Discrete Analyser														
Nitrite as N	14797-65-0	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser														
Nitrate as N	14797-55-8	mg/L	0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser														
Nitrite + Nitrate as N		mg/L	0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser														
Organic Nitrogen as N		mg/L	0.1	0.7	0.5	0.5	1.3	1.2	0.6	0.7	<0.1	0.7	1.0	0.7
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser														
Total Kjeldahl Nitrogen as N		mg/L	0.1	0.7	0.5	0.5	1.4	1.2	0.6	0.7	<0.1	0.7	1.0	0.7
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser														
Total Nitrogen as N		mg/L	0.1	0.7	0.5	0.5	1.4	1.2	0.6	0.7	<0.1	0.7	1.0	0.7
EK067G: Total Phosphorus as P by Discrete Analyser														
Total Phosphorus as P		mg/L	0.01	0.03	0.15	0.12	0.17	0.11	0.04	0.04	<0.01	0.05	0.23	0.06
EK071G: Reactive Phosphorus as P by discrete analyser														
Reactive Phosphorus as P	14265-44-2	mg/L	0.01	<0.01	0.04	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01

EP075(SIM)B: Polynuclear Aromatic Hydrocarbons

Naphthalene	91-20-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of polycyclic aromatic hydrocarbons		µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)		µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

EP075(SIM)S: Phenolic Compound Surrogates

Phenol-d6	13127-88-3	%	1.0	28.7	26.6	21.4	22.9	20.0	23.5	29.6	24.3	26.0	26.8	29.3
2-Chlorophenol-D4	93951-73-6	%	1.0	76.6	69.6	62.1	61.7	55.8	63.3	73.6	67.7	70.0	65.3	71.8
2,4,6-Tribromophenol	118-79-6	%	1.0	58.3	52.3	47.0	44.7	42.0	48.8	55.2	54.2	53.8	57.6	54.4

EP075(SIM)T: PAH Surrogates

2-Fluorobiphenyl	321-60-8	%	1.0	97.9	73.9	85.2	82.1	75.9	68.3	71.5	81.2	73.9	76.1	71.9
Anthracene-d10	1719-06-8	%	1.0	95.9	90.7	80.6	79.9	74.3	88.1	89.0	76.0	107	84.0	90.6
4-Terphenyl-d14	1718-51-0	%	1.0	115	93.3	97.0	93.7	89.0	91.0	92.2	92.2	110	88.1	96.2

	Matrix:	WATER		Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Workgroup:	E81903762		S Sample Number:	E81903762001	E81903762002	E81903762003	E81903762004	E81903762005	E81903762006	E81903762007	E81903762008	E81903762009	E81903762010	E81903762011	E81903762012	E81903762013	E81903762014	E81903762015	E81903762016	E81903762017	E81903762018	E81903762019
	Project name/number:	10558 Inland Rail - Border to Gr		Sample Date: vnt sample ID (1st): nt sample ID (2nd):	11/02/2019 Site 2	11/02/2019 Site 2R	12/02/2019 Site 23	12/02/2019 Site 18	12/02/2019 Site 7	12/02/2019 Site 6	12/02/2019 Site 3	13/02/2019 Site 14	13/02/2019 Site 27	13/02/2019 Site 16	13/02/2019 Site 24	13/02/2019 Site 11	13/02/2019 Site 28	14/02/2019 Site 30	14/02/2019 Site 32	14/02/2019 Site 39	14/02/2019 Site 42	12/02/2019 DUP	12/02/2019 FB
				Depth Type: Depth (m): Site: Purchase Order:																			
Analyte grouping/Analyte	CAS Number	Unit	Limit of reporting																				
EA010P: Conductivity by PC Titrator																							
Electrical Conductivity @ 25°C		µS/cm	1		228	230	289	339	450	428	392	335	546	688	306	259	557	406	614	2850	1450	424	1
EA020EC: Salinity																							
Salinity		g/kg	0.01		0.11	0.11	0.14	0.16	0.21	0.20	0.19	0.16	0.26	0.33	0.14	0.12	0.27	0.19	0.30	1.48	0.73	0.20	<0.01
EA025: Total Suspended Solids dried at 104 ± 2 °C																							
Suspended Solids (SS)		mg/L	5		23	24	8	18	12	12	8	39	74	170	60	23	73	35	95	30	8	14	<5
EA065: Total Hardness as CaCO3																							
Total Hardness as CaCO3		mg/L	1		78	78	90	99	88	81	79	64	195	112	65	55	156	128	204	801	482	81	<1
ED093F: Dissolved Major Cations																							
Calcium	7440-70-2	mg/L	1		13	13	23	28	17	16	15	6	37	25	13	12	26	25	37	42	43	16	<1
Magnesium	7439-95-4	mg/L	1		11	11	8	7	11	10	10	12	25	12	8	6	22	16	27	169	91	10	<1
EG020F: Dissolved Metals by ICP-MS																							
Arsenic	7440-38-2	mg/L	0.001		0.004	0.004	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.005	0.001	0.003	<0.001	<0.001	0.002	<0.001
Cadmium	7440-43-9	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.001	<0.001	0.002	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Pb	7439-92-1	mg/L	0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.002	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	mg/L	0.001		<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.006	0.006	<0.001	0.012	0.003	0.011	0.006	0.002	<0.001	<0.001
Zinc	7440-66-6	mg/L	0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EG035F: Dissolved Mercury by FIMS																							
Mercury	7439-97-6	mg/L	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser																							
Ammonia as N	7664-41-7	mg/L	0.01		0.07	0.03	0.03	0.03	0.05	0.05	0.04	0.05	0.05	0.06	0.04	0.04	0.07	0.06	0.09	0.06	0.06	0.06	0.01
EK057G: Nitrite as N by Discrete Analyser																							
Nitrite as N	14797-65-0	mg/L	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser																							
Nitrate as N	14797-55-8	mg/L	0.01		0.17	0.16	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.69	<0.01	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser																							
Nitrite + Nitrate as N		mg/L	0.01		0.17	0.16	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.71	<0.01	<0.01
EK060G: Organic Nitrogen as N (TKN-NH3) By Discrete Analyser																							
Organic Nitrogen as N		mg/L	0.1		0.5	0.6	1.4	1.2	1.0	1.2	1.0	1.6	2.2	4.1	1.8	2.2	5.1	1.4	3.7	0.9	0.3	0.9	<0.1
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser																							
Total Kjeldahl Nitrogen as N		mg/L	0.1		0.6	0.6	1.4	1.2	1.0	1.2	1.0	1.6	2.2	4.2	1.8	2.2	5.2	1.5	3.8	1.0	0.4	1.0	<0.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser																							
Total Nitrogen as N		mg/L	0.1		0.8	0.8	1.4	1.2	1.0	1.2	1.0	1.6	2.2	4.2	1.8	2.2	5.2	1.5	3.8	1.0	1.1	1.0	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser																							
Total Phosphorus as P		mg/L	0.01		0.16	0.16	0.10	0.10	0.04	0.06	0.06	0.07	0.23	0.31	0.35	0.15	0.43	0.18	0.43	0.08	0.02	0.06	<0.01
EK071G: Reactive Phosphorus as P by discrete analyser																							
Reactive Phosphorus as P	14265-44-2	mg/L	0.01		0.13	0.13	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.01	<0.01
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons																							
Naphthalene	91-20-3	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1-methylanthracene	56-55-3	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo[b]fluoranthene	205-99-2 205-82-1	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo[k]fluoranthene	207-08-9	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo[a]pyrene	50-32-8	µg/L	0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno[1,2,3-cd]pyrene	193-39-5	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenzo[a,h]anthracene	53-70-3	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo[g,h,i]perylene	191-24-2	µg/L	1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of polycyclic aromatic hydrocarbons		µg/L	0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo[a]pyrene TEQ (Isero)		µg/L	0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates																							
Phenol-d6	13127-88-3	%	1.0		24.8	24.7	19.7	32.5	23.4	24.5	25.5	27.4	23.7	25.1	25.9	25.7	21.6	25.8	25.4	21.8	25.4	25.8	28.6
2-Chlorophenol-d4	39391-79-6	%	1.0		63.4	69.0	55.3	61.0	62.8	60.7	61.4	56.5	58.9	65.7	66.7	38.5	49.0	48.0	47.1	57.4	62.8	68.1	68.1
2,4,6-Tribromophenol	118-79-6	%	1.0		45.8	48.7	43.8	58.7	41.4	39.6	35.3	33.0	33.5	42.6	43.0	50.6	19.8	19.8	29.2	31.7	40.5	55.4	77.7
EP075(SIM)T: PAH Surrogates																							
2-Fluorobiphenyl	321-60-8	%	1.0		72.5	79.8	74.9	86.5	77.0	77.4	74.0	81.7	75.7	76.5	79.3	79.1	68.8	69.7	75.2	64.9	75.5	74.3	74.8
Anthracene-d10	1719-06-8	%	1.0		77.0	85.3	53.5	66.5	53.8	55.1	50.8	57.9	53.3	54.4	56.6	54.1	45.6	49.1	52.7	44.9	52.1	50.4	84.6
4-Terphenyl-d14	1718-51-0	%	1.0																				

	Matrix:	WATER	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	
	Workgroup:	E819112002	S Sample Number:	E8191120002	E8191120003	E8191120004	E8191120005	E8191120006	E8191120007	E8191120008	E8191120009	E8191120010	E8191120011	E8191120012	E8191120013	E8191120014	E8191120015	E8191120016	E8191120017	E8191120018	E8191120020			
	Project name/number:	10558 Inland Rail - Border to G	Sample Date: not sample ID (14d): rt sample ID (2nd):	29/04/2019 Site 2	29/04/2019 Site 3	30/04/2019 Site 4	30/04/2019 Site 6	30/04/2019 Site 7	30/04/2019 Site 11	01/05/2019 Site 14	01/05/2019 Site 16	01/05/2019 Site 18	01/05/2019 Site 20R	01/05/2019 Site 23	02/05/2019 Site 27	01/05/2019 Site 28	02/05/2019 Site 30	02/05/2019 Site 39	02/05/2019 Site 40	02/05/2019 Site 42	30/04/2019 DUP	30/04/2019 FB		
			Depth Type: Depth (m): Site: Purchase Order:																					
Analyte grouping/Analyte	CAS Number	Unit	Limit of reporting																					
EA010P: Conductivity by PC Titrator																								
Electrical Conductivity @ 25°C		µS/cm	1	210	211	419	428	425	293	349	1240	314	152	286	230	307	300	445	1810	673	835	433	<1	
EA020EC: Salinity																								
Salinity		g/kg	0.01	0.10	0.10	0.20	0.21	0.21	0.14	0.17	0.62	0.15	0.08	0.14	0.11	0.15	0.14	0.21	0.92	0.33	0.41	0.21	<0.01	
EA025: Total Suspended Solids dried at 104 ± 2°C																								
Suspended Solids (SS)		mg/L	5	10	7	12	10	6	104	44	2170	8	10	18	214	175	48	70	20	26	12	9	<5	
EA065: Total Hardness as CaCO3																								
Total Hardness as CaCO3		mg/L	1	93	93	99	99	102	73	83	179	118	72	116	102	149	177	192	720	290	367	99	<1	
ED093F: Dissolved Major Cations																								
Calcium	7440-70-2	mg/L	1	16	16	20	20	21	16	7	42	34	19	30	21	30	33	34	87	37	48	20	<1	
Magnesium	7439-95-4	mg/L	1	13	13	12	12	12	8	16	18	8	6	10	12	18	23	26	122	48	60	12	<1	
EG020F: Dissolved Metals by ICP-MS																								
Arsenic	7440-38-2	mg/L	0.001	0.003	0.003	0.002	0.001	0.002	0.001	0.001	0.004	0.001	0.003	0.002	0.001	0.001	0.003	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	
Cadmium	7440-43-9	mg/L	0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	mg/L	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.005	0.001	0.002	0.002	0.002	0.001	<0.001	<0.001	
Lead	7439-92-1	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	7440-02-0	mg/L	0.001	0.003	0.002	0.001	<0.001	<0.001	<0.001	0.002	0.002	0.009	0.002	0.004	0.003	0.008	0.011	0.015	0.006	0.010	0.003	0.003	<0.001	<0.001
Zinc	7440-66-6	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS																								
Mercury	7439-97-6	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser																								
Ammonia as N	7664-41-7	mg/L	0.01	0.03	0.02	0.02	0.03	0.03	0.02	0.03	1.50	0.02	0.02	0.02	0.08	0.04	0.03	0.03	0.04	0.02	0.05	0.03	0.02	
EK055G: Nitrite as N by Discrete Analyser																								
Nitrite as N	14797-65-0	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser																								
Nitrate as N	14797-55-8	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.90	1.25	<0.01	<0.01	
EK055G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser																								
Nitrite + Nitrate as N		mg/L	0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.92	1.27	<0.01	<0.01	
EK060G: Organic Nitrogen as N (TKN-NH3) By Discrete Analyser																								
Organic Nitrogen as N		mg/L	0.1	0.5	0.4	1.6	1.1	1.1	5.7	2.3	29.6	0.8	1.6	0.9	1.4	1.5	1.8	3.3	0.6	0.3	0.2	1.0	<0.1	
EK081G: Total Kjeldahl Nitrogen By Discrete Analyser																								
Total Kjeldahl Nitrogen as N		mg/L	0.1	0.5	0.4	1.6	1.1	1.1	5.7	2.3	31.1	0.8	1.6	0.9	1.5	1.5	1.8	3.3	0.6	0.3	0.2	1.0	<0.1	
EK082G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser																								
Total Nitrogen as N		mg/L	0.1	0.5	0.4	1.6	1.1	1.2	5.7	2.3	31.2	0.8	1.6	0.9	1.5	1.5	1.8	3.3	0.7	1.2	1.5	1.0	<0.1	
EK067G: Total Phosphorus as P by Discrete Analyser																								
Total Phosphorus as P		mg/L	0.01	0.08	0.06	0.08	0.04	0.04	0.33	0.10	3.83	0.04	0.32	0.06	0.51	0.31	0.66	0.38	0.06	0.06	0.04	0.04	<0.01	
EK071G: Reactive Phosphorus as P by discrete analyser																								
Reactive Phosphorus as P	14265-44-2	mg/L	0.01	0.04	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	0.04	0.01	0.37	<0.01	<0.01	0.02	0.02	<0.01	<0.01	
EP008: Chlorophyll a & Pheophytin a																								
Chlorophyll a		mg/m³	1	5	4	65	10	14	460	16	545	4	21	7	24	26	18	72	31	4	2	----	----	
Volume		L	0.01	0.85	0.85	0.25	0.8	0.75	0.25	0.25	0.012	0.1	0.5	0.6	0.125	0.075	0.3	0.15	0.7	0.55	1	----	----	
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons																								
Naphthalene	91-20-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthylene	208-96-8	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Acenaphthene	81-32-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluorene	86-73-7	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Phenanthrene	85-01-8	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Anthracene	120-12-7	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Fluoranthene	206-44-0	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Pyrene	129-00-0	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Benz(a)anthracene	56-55-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Chrysene	218-01-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(b)fluoranthene	205-99-2	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(k)fluoranthene	207-08-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(a)pyrene	50-32-8	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dibenz(a,h)anthracene	53-70-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Benzo(g,h,i)perylene	191-24-2	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sum of polycyclic aromatic hydrocarbons		µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzo(a)pyrene TEQ (zero)		µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
EP075(SIM)S: Phenolic Compound Surrogates																								
Phenol-d6	13127-88-3	%	1.0	33.3	36.2	31.4	29.2	30.8	28.3	25.5	28.2	30.9	25.8	29.5	26.4	26.2	23.7	24.3	28.2	23.5	28.8	30.9	32.6	
2-Chlorophenol-D4	93951-73-6	%	1.0	74.4	82.3	71.4	67.9	70.6	67.4	60.4	67.3	71.6	64.6	67.3	68.8	67.4	60.8	59.2	60.8	65.5	58.5	66.4	70.2	79.1
2,4,6-Tribromophenol	118-79-6	%	1.0																					

	Matrix:	WATER	Sample Type:	REG	REG	REG	REG	REG	REG	REG
Workgroup:	EB1912777		ALS Sample Number:	EB1912777001	EB1912777002	EB1912777003	EB1912777004	EB1912777005	EB1912777006	EB1912777007
Project name/number:	10558 Inland Rail - Border to Gc		Sample Date:	16/05/2019	16/05/2019	16/05/2019	17/05/2019	18/05/2019	16/05/2019	16/05/2019
			lient sample ID (1st):	Site 2	Site 6R	Site 7	Site 18	Site 42	DUP	FB
			lient sample ID (2nd):							
			Depth Type:							
			Depth (m):							
			Site:							
			Purchase Order:							
Analyte grouping/Analyte	CAS Number	Unit	Limit of reporting							
EA010P: Conductivity by PC Titrator										
Electrical Conductivity @ 25°C		µS/cm	1	290	437	440	320	1290	435	<1
EA020EC: Salinity										
Salinity		g/kg	0.01	0.14	0.21	0.21	0.15	0.64	0.21	<0.01
EA025: Total Suspended Solids dried at 104 ± 2°C										
Suspended Solids (SS)		mg/L	5	12	11	6	14	<5	7	<5
EA065: Total Hardness as CaCO3										
Total Hardness as CaCO3		mg/L	1	70	86	93	101	509	93	<1
ED093F: Dissolved Major Cations										
Calcium	7440-70-2	mg/L	1	15	18	19	29	62	19	<1
Magnesium	7439-95-4	mg/L	1	8	10	11	7	86	11	<1
EG020F: Dissolved Metals by ICP-MS										
Arsenic	7440-38-2	mg/L	0.001	0.002	0.001	0.001	<0.001	<0.001	0.001	<0.001
Cadmium	7440-43-9	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	7440-47-3	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	mg/L	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Lead	7439-92-1	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	mg/L	0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001	<0.001
Zinc	7440-66-6	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EG035F: Dissolved Mercury by FIMS										
Mercury	7439-97-6	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
EK055G: Ammonia as N by Discrete Analyser										
Ammonia as N	7664-41-7	mg/L	0.01	0.02	0.03	0.05	0.02	0.03	0.05	<0.01
EK057G: Nitrite as N by Discrete Analyser										
Nitrite as N	14797-65-0	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser										
Nitrate as N	14797-55-8	mg/L	0.01	0.02	<0.01	0.24	<0.01	1.38	0.24	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser										

Appendix B - Raw laboratory results for three sampling round 5

Nitrite + Nitrate as N	mg/L	0.01	0.02	<0.01	0.24	<0.01	1.40	0.24	<0.01
EK060G: Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	mg/L	0.1	0.7	1.1	1.0	0.8	0.2	1.0	<0.1
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	mg/L	0.1	0.7	1.1	1.0	0.8	0.2	1.0	<0.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
Total Nitrogen as N	mg/L	0.1	0.7	1.1	1.2	0.8	1.6	1.2	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	mg/L	0.01	0.03	0.03	0.02	0.04	<0.01	0.02	<0.01
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2 mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	mg/m ³	1	7	11	7	5	1	----	----
Volume	L	0.01	0.65	0.5	1	1	1	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-1	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	µg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of polycyclic aromatic hydrocarbons		µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)		µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	%	1.0	30.4	28.9	25.5	34.0	27.9	25.6
2-Chlorophenol-D4	93951-73-6	%	1.0	84.6	80.4	68.5	93.3	69.9	70.1
2,4,6-Tribromophenol	118-79-6	%	1.0	60.0	54.1	40.3	51.4	25.2	39.0
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	%	1.0	82.5	80.7	79.6	95.6	84.0	72.4
Anthracene-d10	1719-06-8	%	1.0	57.3	57.4	77.9	104	83.3	57.3
4-Terphenyl-d14	1718-51-0	%	1.0	60.8	61.4	82.5	112	89.7	63.3

Surface water quality results – Round 1 (June 2018)



CHAIN OF CUSTODY

ALS Laboratory: please tick →

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CLIENT: Eco Logical Australia		TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date):		FOR LABORATORY USE ONLY (Circle)	
OFFICE: Brisbane		(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)		Custody Seal Intact? Yes No N/A	
PROJECT: Inland Rail - Border to Gowrie EIS		PROJECT NO: 10558		Free ice / frozen ice bricks present upon receipt? Yes No N/A	
ORDER NUMBER:		PURCHASE ORDER NO.:		Random Sample Temperature on Receipt: °C	
PROJECT MANAGER: Miles Yeates		CONTACT PH: 0467 738 954		Other comment:	
SAMPLER: David Moore and Peter Hancock		SAMPLER MOBILE:		RELINQUISHED BY:	
COC Emailed to ALS? (YES / NO)		EDD FORMAT (or default):		RECEIVED BY:	
Email Reports to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au		DATE/TIME:		DATE/TIME:	
Email Invoice to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au		DATE/TIME:		DATE/TIME:	

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).										Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	EA020-EC-P Conductivity and Salinity	EA025H Total Suspended Solids (TSS)	NT-1C Total Hardness as CaCO3	NT-8A Nutrients suite - Ammonia as N, Nitrite, Nitrate, Total N, TN, NOx, Reactive P and Total P	EK060 Organic Nitrogen	W-2 Dissolved metals - 8 metals suite (As, Cd, Cr, Cu, Ni, Pb, Zn and Hg) - samples are field filtered	EP075B SIM PAHs (16 analytes)	ophyll a (filter paper)	These samples are Batch 1 of a nine day field trip. A second batch of samples will follow in 5-6 days time. All metals samples are field filtered. Frozen Chlorophyll a filter paper samples will be included in Batch 2 (not in this batch).		
1	Site 14	13/6/18 noon	W		4	X	X	X	X	X	X	X				
2	Site 42	12/6/18 noon	W		4	X	X	X	X	X	X	X				
3	Site 40	12/6/18 noon	W		4	X	X	X	X	X	X	X				
4	Site 39	12/6/18 noon	W		4	X	X	X	X	X	X	X				
5	Site 30	14/6/18 noon	W		4	X	X	X	X	X	X	X				
6	Site 27	15/6/18 noon	W		4	X	X	X	X	X	X	X				
7	Site 16	13/6/18 noon	W		4	X	X	X	X	X	X	X				
TOTAL					28											

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag; LI = Lugols Iodine Preserved Bottles; STT = Sterile Sodium Thiosulfate Preserved Bottles.

CERTIFICATE OF ANALYSIS

Work Order : **EB1814632**
Client : **ECO LOGICAL AUSTRALIA PTY LTD**
Contact : **MILES YEATES**
Address : **PO BOX 1422**
FORTITUDE VALLEY QLD 4006
Telephone : **+61 02 8536 8667**
Project : **10558 Inland Rail - Border to Gowrie EIS**
Order number :
C-O-C number :
Sampler : **DAVID MOORE and PETER HANCOCK**
Site :
Quote number : **BN/142/18 V2**
No. of samples received : **7**
No. of samples analysed : **7**

Page : 1 of 7
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 15-Jun-2018 15:00
Date Analysis Commenced : 15-Jun-2018
Issue Date : 21-Jun-2018 16:58



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Matt Frost	Senior Organic Chemist	Brisbane Organics, Stafford, QLD



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP075(SIM): Matrix spike shows poor recovery. Insufficient sample for re-extraction and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 14	Site 42	Site 40	Site 39	Site 30
Client sampling date / time				13-Jun-2018 00:00	12-Jun-2018 00:00	12-Jun-2018 00:00	12-Jun-2018 00:00	14-Jun-2018 00:00	
Compound	CAS Number	LOR	Unit	EB1814632-001	EB1814632-002	EB1814632-003	EB1814632-004	EB1814632-005	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	207	1380	1380	2440	449	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.10	0.69	0.69	1.25	0.22	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	20	6	10	8	11	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	39	471	465	746	146	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	4	55	51	73	29	
Magnesium	7439-95-4	1	mg/L	7	81	82	137	18	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.001	
Nickel	7440-02-0	0.001	mg/L	0.001	0.002	0.002	0.004	0.003	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.25	0.02	0.02	0.04	0.02	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	1.25	<0.01	0.51	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	1.25	<0.01	0.52	<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	1.0	0.2	0.3	0.3	0.5	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.2	0.2	0.3	0.3	0.5	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 14	Site 42	Site 40	Site 39	Site 30
Client sampling date / time					13-Jun-2018 00:00	12-Jun-2018 00:00	12-Jun-2018 00:00	12-Jun-2018 00:00	14-Jun-2018 00:00
Compound	CAS Number	LOR	Unit		EB1814632-001	EB1814632-002	EB1814632-003	EB1814632-004	EB1814632-005
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		1.2	1.4	0.3	0.8	0.5
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.03	0.01	0.02	0.02	0.07
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		26.6	29.0	25.7	26.1	29.8
2-Chlorophenol-D4	93951-73-6	1.0	%		74.9	74.4	69.9	69.2	76.1
2,4,6-Tribromophenol	118-79-6	1.0	%		61.2	52.6	48.6	46.4	52.2
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		79.1	78.2	75.7	79.4	82.1
Anthracene-d10	1719-06-8	1.0	%		105	103	95.9	101	108
4-Terphenyl-d14	1718-51-0	1.0	%		104	105	101	107	120

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID		Site 27		Site 16		----		----		----	
Client sampling date / time				15-Jun-2018 00:00		13-Jun-2018 00:00		----		----		----		----	
Compound	CAS Number	LOR	Unit	EB1814632-006		EB1814632-007		-----		-----		-----		-----	
				Result		Result		----		----		----			
EA010P: Conductivity by PC Titrator															
Electrical Conductivity @ 25°C		----	1	µS/cm	582		225		----		----		----		
EA020EC: Salinity															
Salinity		----	0.01	g/kg	0.28		0.11		----		----		----		
EA025: Total Suspended Solids dried at 104 ± 2°C															
Suspended Solids (SS)		----	5	mg/L	28		32		----		----		----		
EA065: Total Hardness as CaCO3															
Total Hardness as CaCO3		----	1	mg/L	199		51		----		----		----		
ED093F: Dissolved Major Cations															
Calcium		7440-70-2	1	mg/L	40		14		----		----		----		
Magnesium		7439-95-4	1	mg/L	24		4		----		----		----		
EG020F: Dissolved Metals by ICP-MS															
Arsenic		7440-38-2	0.001	mg/L	<0.001		<0.001		----		----		----		
Cadmium		7440-43-9	0.0001	mg/L	<0.0001		<0.0001		----		----		----		
Chromium		7440-47-3	0.001	mg/L	<0.001		<0.001		----		----		----		
Copper		7440-50-8	0.001	mg/L	0.002		<0.001		----		----		----		
Nickel		7440-02-0	0.001	mg/L	0.006		0.001		----		----		----		
Lead		7439-92-1	0.001	mg/L	<0.001		<0.001		----		----		----		
Zinc		7440-66-6	0.005	mg/L	<0.005		<0.005		----		----		----		
EG035F: Dissolved Mercury by FIMS															
Mercury		7439-97-6	0.0001	mg/L	<0.0001		<0.0001		----		----		----		
EK055G: Ammonia as N by Discrete Analyser															
Ammonia as N		7664-41-7	0.01	mg/L	0.03		0.02		----		----		----		
EK057G: Nitrite as N by Discrete Analyser															
Nitrite as N		14797-65-0	0.01	mg/L	<0.01		<0.01		----		----		----		
EK058G: Nitrate as N by Discrete Analyser															
Nitrate as N		14797-55-8	0.01	mg/L	<0.01		<0.01		----		----		----		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser															
Nitrite + Nitrate as N		----	0.01	mg/L	<0.01		<0.01		----		----		----		
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser															
Organic Nitrogen as N		----	0.1	mg/L	0.9		1.0		----		----		----		
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser															
Total Kjeldahl Nitrogen as N		----	0.1	mg/L	0.9		1.0		----		----		----		
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser															



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 27	Site 16	----	----	----
Client sampling date / time					15-Jun-2018 00:00	13-Jun-2018 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EB1814632-006	EB1814632-007	-----	-----	-----
				Result	Result		----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.9	1.0	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.11	0.11	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	----	----	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	----	----	----
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	----	----	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	----	----	----
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	----	----	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	----	----	----
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	----	----	----
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		28.2	26.8	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		73.3	74.3	----	----	----
2,4,6-Tribromophenol	118-79-6	1.0	%		46.5	53.2	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		84.1	82.7	----	----	----
Anthracene-d10	1719-06-8	1.0	%		103	101	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		115	113	----	----	----



Surrogate Control Limits

Sub-Matrix: **WATER**

		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	72
2-Chlorophenol-D4	93951-73-6	27	130
2,4,6-Tribromophenol	118-79-6	19	181
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	14	146
Anthracene-d10	1719-06-8	35	137
4-Terphenyl-d14	1718-51-0	36	154

Surface water quality results – Round 2 (November 2018)



CHAIN OF CUSTODY

ALS Laboratory: please tick →

QADELAIDE 311 Burma Road Pooraka SA 5095
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Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com

QGLADSTONE 48 Callamondah Drive Gladstone QLD 4680
Ph: 07 4978 7944 E: gladstone@alsglobal.com

QMACRAY 78 Harbour Road Mackay QLD 4740
Ph: 07 4944 0177 E: mackay@alsglobal.com

QMELBOURNE 2-4 Westall Road Springvale VIC 3171
Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com

QMUDGEE 1/29 Sydney Road Mudgee NSW 2850
Ph: 02 6372 6735 E: mudgee@mail@alsglobal.com

QNEWCASTLE 5/585 Maitland Road Mayfield West NSW 2304
Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com

QNOWRA 4/13 Gaery Place North Nowra NSW 2541
Ph: 02 4423 2063 E: nowra@alsglobal.com

QPERTH 10 Hod Way Malaga WA 6090
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QSYDNEY 277-289 Woodpark Road Smithfield NSW 2164
Ph: 02 8754 8555 E: samples.sydney@alsglobal.com

Environmental Division
Brisbane

Work Order Reference

EB1829378

N/A

N/A



Telephone : + 61-7-3243 7222

CLIENT: Eco Logical Australia		TURNAROUND REQUIREMENTS : ☐ Standard TAT (List due date):		FOR L
OFFICE: Brisbane		(Standard TAT may be longer for some tests e.g. Ultra Trace Organics)		Custody
PROJECT: Inland Rail - Border to Gowrie EIS		PROJECT NO: 10558	ALS QUOTE NO.: BN/142/18 V2	Free for receipt
ORDER NUMBER:		PURCHASE ORDER NO.:		Random
PROJECT MANAGER: Miles Yeates		CONTACT PH: 0467 738 954		Other c
SAMPLER: David Moore and Peter Hancock		SAMPLER MOBILE:		RELINQUISH
COC Emailed to ALS? (YES / NO)		EDD FORMAT (or default):		DATE/TIME
Email Reports to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au		RELINQUISHED BY: <i>[Signature]</i>		RECEIVED BY: <i>[Signature]</i>
Email Invoice to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au		DATE/TIME: 11.50am 30/11/18		DATE/TIME: 30/11/18 1245

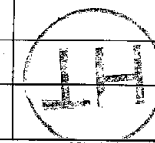
COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).								Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	EA020-EC-P Conductivity and Salinity	EA026H Total Suspended Solids (TSS)	NT-1C Total Hardness as CaCO3	NT-8A Nutrients suite - Ammonia as N, Nitrite, Nitrate, Total N, TKN, NOx, Reactive P and Total P	EK060 Organic Nitrogen	W-2 Dissolved metals - 8 metals suite (As, Cd, Cr, Cu, Ni, Pb, Zn and Hg) - samples are field filtered	EP076B SIM PAHs (16 analytes)	EP008 Chlorophyll a (filter paper method)	These samples are Batch 1 of a nine day field trip. A second batch of samples will follow in 3-4 days time. All metals samples are field filtered.
1	Site 14	29/11/18	W		4	X	X	X	X	X	X	X		
2	Site 2R	27/11/18	W		4	X	X	X	X	X	X	X		
3	Site 2	29/11/18	W		4	X	X	X	X	X	X	X		
4	Site 16	28/11/18	W		4	X	X	X	X	X	X	X		
5	Site 11	28/11/18	W		4	X	X	X	X	X	X	X		
6	Site 3	27/11/18	W		4	X	X	X	X	X	X	X		
7	DUP	27/11/18	W		6	X	X	X	X	X	X	X		2 QA/QC Amber
8	FB	29/11/18	W		4	X	X	X	X	X	X	X		
9	Site 6	27/11/18	W		4	X	X	X	X	X	X	X		
10	Site 33	26/11/18	W		4	X	X	X	X	X	X	X		
11	Site 7	27/11/18	W		4	X	X	X	X	X	X	X		
TOTAL					46									

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic

V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass;

Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag; LI = Lugols Iodine Preserved Bottles; STT = Sterile Sodium Thiosulfate Preserved Bottles.



CERTIFICATE OF ANALYSIS

Work Order : **EB1829378**
Client : **ECO LOGICAL AUSTRALIA PTY LTD**
Contact : **MILES YEATES**
Address : **PO BOX 1422**
FORTITUDE VALLEY QLD 4006
Telephone : **+61 02 8536 8667**
Project : **Inland Rail - Border to Gowrie EIS**
Order number : **10558**
C-O-C number : **----**
Sampler : **DAVID MOORE, PETER HANCOCK**
Site :
Quote number : **BN/142/18 V2**
No. of samples received : **11**
No. of samples analysed : **11**

Page : **1 of 9**
Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **30-Nov-2018 12:45**
Date Analysis Commenced : **01-Dec-2018**
Issue Date : **07-Dec-2018 08:35**



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Diana Mesa	2IC Organic Chemist	Brisbane Organics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Minh Wills	2IC Organic Chemist	Brisbane Organics, Stafford, QLD
Tom Maloney	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

Ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP075(SIM): Matrix spike shows poor recovery. Insufficient sample for re-extraction and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	14	2R	2	16	11
Client sampling date / time				29-Nov-2018 00:00	27-Nov-2018 00:00	29-Nov-2018 00:00	28-Nov-2018 00:00	28-Nov-2018 00:00	
Compound	CAS Number	LOR	Unit	EB1829378-001	EB1829378-002	EB1829378-003	EB1829378-004	EB1829378-005	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	232	214	213	359	274	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.11	0.10	0.10	0.17	0.13	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	<5	43	27	56	14	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	50	67	71	100	57	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	5	12	12	27	13	
Magnesium	7439-95-4	1	mg/L	9	9	10	8	6	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.001	0.003	0.003	0.001	0.001	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.002	0.002	<0.001	
Nickel	7440-02-0	0.001	mg/L	0.001	0.002	0.002	0.002	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	<0.01	0.06	<0.01	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	0.02	<0.01	0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.02	<0.01	0.01	<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.7	0.5	0.5	1.3	1.2	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.7	0.5	0.5	1.4	1.2	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	14	2R	2	16	11
Client sampling date / time					29-Nov-2018 00:00	27-Nov-2018 00:00	29-Nov-2018 00:00	28-Nov-2018 00:00	28-Nov-2018 00:00
Compound	CAS Number	LOR	Unit		EB1829378-001	EB1829378-002	EB1829378-003	EB1829378-004	EB1829378-005
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.7	0.5	0.5	1.4	1.2
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.03	0.15	0.12	0.17	0.11
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	0.04	0.04	<0.01	<0.01
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		28.7	26.6	21.4	22.9	20.0
2-Chlorophenol-D4	93951-73-6	1.0	%		76.6	69.6	62.1	61.7	55.8
2,4,6-Tribromophenol	118-79-6	1.0	%		58.3	52.3	47.0	44.7	42.0
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		97.9	73.9	85.2	82.1	75.9
Anthracene-d10	1719-06-8	1.0	%		95.9	90.7	80.6	79.9	74.3
4-Terphenyl-d14	1718-51-0	1.0	%		115	93.3	97.0	93.7	89.0

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	3	DUP	FB	6	33
Client sampling date / time				27-Nov-2018 00:00	27-Nov-2018 00:00	29-Nov-2018 00:00	27-Nov-2018 00:00	26-Nov-2018 00:00	
Compound	CAS Number	LOR	Unit	EB1829378-006	EB1829378-007	EB1829378-008	EB1829378-009	EB1829378-010	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	386	388	<1	411	198	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.19	0.19	<0.01	0.20	0.10	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	<5	<5	<5	14	15	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	76	76	<1	79	59	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	14	14	<1	15	12	
Magnesium	7439-95-4	1	mg/L	10	10	<1	10	7	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.002	0.002	<0.001	0.002	<0.001	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	0.001	<0.001	<0.001	<0.001	0.004	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.008	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.03	<0.01	0.03	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	0.01	<0.01	<0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.01	<0.01	<0.01	<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.6	0.7	<0.1	0.7	1.0	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.7	<0.1	0.7	1.0	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	3	DUP	FB	6	33
Client sampling date / time					27-Nov-2018 00:00	27-Nov-2018 00:00	29-Nov-2018 00:00	27-Nov-2018 00:00	26-Nov-2018 00:00
Compound	CAS Number	LOR	Unit		EB1829378-006	EB1829378-007	EB1829378-008	EB1829378-009	EB1829378-010
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.6	0.7	<0.1	0.7	1.0
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.04	0.04	<0.01	0.05	0.23
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		23.5	29.6	24.3	26.0	26.8
2-Chlorophenol-D4	93951-73-6	1.0	%		63.3	73.6	67.7	70.0	65.3
2,4,6-Tribromophenol	118-79-6	1.0	%		48.8	55.2	54.2	53.8	57.6
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		68.3	71.5	81.2	73.9	76.1
Anthracene-d10	1719-06-8	1.0	%		88.1	89.0	76.0	107	84.0
4-Terphenyl-d14	1718-51-0	1.0	%		91.0	92.2	92.2	110	88.1

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID		7	----	----	----	----
Client sampling date / time				27-Nov-2018 00:00		----	----	----	----
Compound	CAS Number	LOR	Unit	EB1829378-011		-----	-----	-----	-----
				Result		----	----	----	----
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	416		----	----	----	----
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.20		----	----	----	----
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	9		----	----	----	----
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	79		----	----	----	----
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	15		----	----	----	----
Magnesium	7439-95-4	1	mg/L	10		----	----	----	----
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.002		----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001		----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001		----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001		----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001		----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001		----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005		----	----	----	----
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001		----	----	----	----
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	<0.01		----	----	----	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01		----	----	----	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.02		----	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.02		----	----	----	----
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.7		----	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.7		----	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	7	----	----	----	----
Client sampling date / time					27-Nov-2018 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB1829378-011	-----	-----	-----	-----
Result					----	----	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.7	----	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.06	----	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	----	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	----	----	----	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	----	----	----	----
Fluorene	86-73-7	1.0	µg/L		<1.0	----	----	----	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	----	----	----	----
Anthracene	120-12-7	1.0	µg/L		<1.0	----	----	----	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	----	----	----	----
Pyrene	129-00-0	1.0	µg/L		<1.0	----	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	----	----	----	----
Chrysene	218-01-9	1.0	µg/L		<1.0	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	----	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		29.3	----	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		71.8	----	----	----	----
2,4,6-Tribromophenol	118-79-6	1.0	%		54.4	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		71.9	----	----	----	----
Anthracene-d10	1719-06-8	1.0	%		90.6	----	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		96.2	----	----	----	----



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	72
2-Chlorophenol-D4	93951-73-6	27	130
2,4,6-Tribromophenol	118-79-6	19	181
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	14	146
Anthracene-d10	1719-06-8	35	137
4-Terphenyl-d14	1718-51-0	36	154

Surface water quality results – Round 3 (February 2019)

CERTIFICATE OF ANALYSIS

Work Order : **EB1903762**
Client : **ECO LOGICAL AUSTRALIA PTY LTD**
Contact : **MILES YEATES**
Address : **PO BOX 1422**
FORTITUDE VALLEY QLD 4006
Telephone : **+61 02 8536 8667**
Project : **10558 Inland Rail - Border to Gowrie EIS**
Order number :
C-O-C number : **----**
Sampler : **DAVID MOORE AND EMMA BLACKLOCK**
Site :
Quote number : **BN/142/18 V2**
No. of samples received : **19**
No. of samples analysed : **19**

Page : 1 of 15
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 14-Feb-2019 16:50
Date Analysis Commenced : 14-Feb-2019
Issue Date : 21-Feb-2019 17:17



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Diana Mesa	2IC Organic Chemist	Brisbane Organics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	WB Water Lab Brisbane, Stafford, QLD
Minh Wills	2IC Organic Chemist	Brisbane Organics, Stafford, QLD



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

Ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP075(SIM): Sample EB1903762-018 (DUP) shows poor matrix spike recovery due to matrix interference. Insufficient sample for re-extraction and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.



Analytical Results

Sub-Matrix: FILTER (Matrix: WATER)				Client sample ID	Site 2	Site 2R	Site 23	Site 18	Site 7
Client sampling date / time					11-Feb-2019 12:00	11-Feb-2019 12:00	12-Feb-2019 07:00	12-Feb-2019 07:00	12-Feb-2019 07:00
Compound	CAS Number	LOR	Unit		EB1903762-001	EB1903762-002	EB1903762-003	EB1903762-004	EB1903762-005
					Result	Result	Result	Result	Result
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m³		2	2	2	7	6
Volume	----	0.01	L		.5	.5	1	.7	.6



Analytical Results

Sub-Matrix: **FILTER**
 (Matrix: **WATER**)

Client sample ID

				Site 6	Site 3	Site 14	Site 27	Site 16
Client sampling date / time				12-Feb-2019 07:00	12-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00
Compound	CAS Number	LOR	Unit	EB1903762-006	EB1903762-007	EB1903762-008	EB1903762-009	EB1903762-010
				Result	Result	Result	Result	Result
EP008: Chlorophyll a & Pheophytin a								
Chlorophyll a	----	1	mg/m³	5	12	6	53	54
Volume	----	0.01	L	.5	.5	.25	.1	.05



Analytical Results

Sub-Matrix: FILTER (Matrix: WATER)				Client sample ID	Site 24	Site 11	Site 28	Site 30	Site 32
Client sampling date / time					13-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	14-Feb-2019 07:00	14-Feb-2019 07:00
Compound	CAS Number	LOR	Unit		EB1903762-011	EB1903762-012	EB1903762-013	EB1903762-014	EB1903762-015
					Result	Result	Result	Result	Result
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m³		9	23	56	50	90
Volume	----	0.01	L		.25	.25	.1	.21	.15



Analytical Results

Sub-Matrix: FILTER (Matrix: WATER)				Client sample ID	Site 39	Site 42	----	----	----
Client sampling date / time					14-Feb-2019 07:00	14-Feb-2019 07:00	----	----	----
Compound	CAS Number	LOR	Unit		EB1903762-016	EB1903762-017	-----	-----	-----
				Result	Result		----	----	----
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m³		12	3	----	----	----
Volume	----	0.01	L		.35	1	----	----	----

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 2R	Site 23	Site 18	Site 7
Client sampling date / time				11-Feb-2019 12:00	11-Feb-2019 12:00	12-Feb-2019 07:00	12-Feb-2019 07:00	12-Feb-2019 07:00	
Compound	CAS Number	LOR	Unit	EB1903762-001	EB1903762-002	EB1903762-003	EB1903762-004	EB1903762-005	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	228	230	289	339	450	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.11	0.11	0.14	0.16	0.21	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	23	24	8	18	12	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	78	78	90	99	88	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	13	13	23	28	17	
Magnesium	7439-95-4	1	mg/L	11	11	8	7	11	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.004	0.004	0.003	0.002	0.002	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.001	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.07	0.03	0.03	0.03	0.05	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.17	0.16	<0.01	<0.01	0.03	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.17	0.16	<0.01	<0.01	0.03	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.5	0.6	1.4	1.2	1.0	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.6	1.4	1.2	1.0	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 2R	Site 23	Site 18	Site 7
Client sampling date / time					11-Feb-2019 12:00	11-Feb-2019 12:00	12-Feb-2019 07:00	12-Feb-2019 07:00	12-Feb-2019 07:00
Compound	CAS Number	LOR	Unit		EB1903762-001	EB1903762-002	EB1903762-003	EB1903762-004	EB1903762-005
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.8	0.8	1.4	1.2	1.0
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.16	0.16	0.10	0.10	0.04
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.13	0.13	0.02	<0.01	<0.01
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		24.8	27.3	19.7	32.5	23.4
2-Chlorophenol-D4	93951-73-6	1.0	%		63.4	69.0	55.3	80.1	61.0
2,4,6-Tribromophenol	118-79-6	1.0	%		45.4	48.7	43.8	58.7	43.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		72.5	79.8	74.9	96.5	77.0
Anthracene-d10	1719-06-8	1.0	%		77.0	85.3	53.5	66.5	53.8
4-Terphenyl-d14	1718-51-0	1.0	%		78.0	85.3	53.7	66.4	54.8

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 6	Site 3	Site 14	Site 27	Site 16
Client sampling date / time				12-Feb-2019 07:00	12-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	
Compound	CAS Number	LOR	Unit	EB1903762-006	EB1903762-007	EB1903762-008	EB1903762-009	EB1903762-010	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	428	392	335	546	688	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.20	0.19	0.16	0.26	0.33	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	12	8	39	74	170	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	81	79	64	195	112	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	16	15	6	37	25	
Magnesium	7439-95-4	1	mg/L	10	10	12	25	12	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.002	0.002	0.002	0.002	0.003	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	0.007	0.002	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.05	0.04	0.05	0.05	0.06	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	<0.01	0.01	0.02	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	<0.01	0.01	0.02	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	1.2	1.0	1.6	2.2	4.1	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.2	1.0	1.6	2.2	4.2	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 6	Site 3	Site 14	Site 27	Site 16
Client sampling date / time					12-Feb-2019 07:00	12-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00
Compound	CAS Number	LOR	Unit		EB1903762-006	EB1903762-007	EB1903762-008	EB1903762-009	EB1903762-010
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		1.2	1.0	1.6	2.2	4.2
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.06	0.06	0.07	0.23	0.31
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		24.5	25.5	27.4	23.7	25.1
2-Chlorophenol-D4	93951-73-6	1.0	%		62.8	60.7	61.4	56.5	58.9
2,4,6-Tribromophenol	118-79-6	1.0	%		39.6	35.3	33.0	31.5	42.6
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		77.4	74.0	81.7	75.7	76.5
Anthracene-d10	1719-06-8	1.0	%		55.1	50.8	57.9	53.3	54.4
4-Terphenyl-d14	1718-51-0	1.0	%		56.2	52.2	59.0	53.5	54.3

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 24	Site 11	Site 28	Site 30	Site 32
Client sampling date / time				13-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	14-Feb-2019 07:00	14-Feb-2019 07:00	
Compound	CAS Number	LOR	Unit	EB1903762-011	EB1903762-012	EB1903762-013	EB1903762-014	EB1903762-015	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	306	259	557	406	614	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.14	0.12	0.27	0.19	0.30	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	60	23	73	35	95	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	65	55	156	128	204	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	13	12	26	25	37	
Magnesium	7439-95-4	1	mg/L	8	6	22	16	27	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.003	0.003	0.005	0.001	0.003	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	0.001	<0.001	0.002	<0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	0.006	<0.001	0.012	0.003	0.011	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.04	0.04	0.07	0.06	0.09	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	1.8	2.2	5.1	1.4	3.7	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.8	2.2	5.2	1.5	3.8	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 24	Site 11	Site 28	Site 30	Site 32
Client sampling date / time					13-Feb-2019 07:00	13-Feb-2019 07:00	13-Feb-2019 07:00	14-Feb-2019 07:00	14-Feb-2019 07:00
Compound	CAS Number	LOR	Unit		EB1903762-011	EB1903762-012	EB1903762-013	EB1903762-014	EB1903762-015
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		1.8	2.2	5.2	1.5	3.8
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.35	0.15	0.43	0.18	0.43
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.07	<0.01	0.02	<0.01	0.03
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		25.9	25.7	21.6	19.8	25.4
2-Chlorophenol-D4	93951-73-6	1.0	%		65.7	66.7	38.5	49.0	63.0
2,4,6-Tribromophenol	118-79-6	1.0	%		43.0	50.6	19.8	23.5	49.2
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		79.3	79.1	68.8	69.7	75.2
Anthracene-d10	1719-06-8	1.0	%		56.6	54.1	45.6	49.1	52.7
4-Terphenyl-d14	1718-51-0	1.0	%		55.0	54.1	45.8	49.0	52.2

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 39	Site 42	DUP	FB	----
Client sampling date / time				14-Feb-2019 07:00	14-Feb-2019 07:00	12-Feb-2019 07:00	12-Feb-2019 07:00	-----	
Compound	CAS Number	LOR	Unit	EB1903762-016	EB1903762-017	EB1903762-018	EB1903762-019	-----	
				Result	Result	Result	Result	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	2850	1450	424	1	----	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	1.48	0.73	0.20	<0.01	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	30	8	14	<5	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	801	482	81	<1	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	42	43	16	<1	----	
Magnesium	7439-95-4	1	mg/L	169	91	10	<1	----	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.002	<0.001	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Copper	7440-50-8	0.001	mg/L	0.001	<0.001	<0.001	<0.001	----	
Nickel	7440-02-0	0.001	mg/L	0.006	0.002	<0.001	<0.001	----	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	----	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.06	0.06	0.06	0.01	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.02	<0.01	<0.01	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	0.69	<0.01	<0.01	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.71	<0.01	<0.01	----	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.9	0.3	0.9	<0.1	----	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.0	0.4	1.0	<0.1	----	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 39	Site 42	DUP	FB	----
Client sampling date / time					14-Feb-2019 07:00	14-Feb-2019 07:00	12-Feb-2019 07:00	12-Feb-2019 07:00	----
Compound	CAS Number	LOR	Unit		EB1903762-016	EB1903762-017	EB1903762-018	EB1903762-019	-----
					Result	Result	Result	Result	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		1.0	1.1	1.0	<0.1	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.08	0.02	0.06	<0.01	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		21.8	25.4	25.8	28.6	----
2-Chlorophenol-D4	93951-73-6	1.0	%		47.1	57.4	62.8	68.1	----
2,4,6-Tribromophenol	118-79-6	1.0	%		31.7	40.5	55.4	77.7	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		64.9	75.5	74.3	74.8	----
Anthracene-d10	1719-06-8	1.0	%		44.9	52.1	50.4	84.6	----
4-Terphenyl-d14	1718-51-0	1.0	%		46.5	54.7	52.7	103	----



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	72
2-Chlorophenol-D4	93951-73-6	27	130
2,4,6-Tribromophenol	118-79-6	19	181
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	14	146
Anthracene-d10	1719-06-8	35	137
4-Terphenyl-d14	1718-51-0	36	154

Surface water quality results – Round 4 (May 2019)



CHAIN OF CUSTODY

ALS Laboratory: please tick →

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Ph: 08 8162 5130 E: adelaide@alsglobal.comQBRISBANE 2 Byth Street Stafford QLD 4053
Ph: 07 3243 7222 E: samples.brisbane@alsglobal.comQGLADSTONE 48 Callamondah Drive Gladstone QLD 4680
Ph: 07 4978 7944 E: gladstone@alsglobal.comQMACKAY 78 Harbour Road Mackay QLD 4740
Ph: 07 4944 0177 E: mackay@alsglobal.comQMELBOURNE 2-4 Westall Road Springvale VIC 3171
Ph: 03 6549 9600 E: samples.melbourne@alsglobal.comQMUDGEE 1/29 Sydney Road Mudgee NSW 2850
Ph: 02 6372 6735 E: mudgee@alsglobal.comQNEWCASTLE 5/665 Maitland Road Mayfield West NSW 2304
Ph: 02 4014 2500 E: samples.newcastle@alsglobal.comQNOWRA 4/13 Geary Place North Nowra NSW 2541
Ph: 02 4423 2063 E: nowra@alsglobal.comQPERTH 10 Hod Way Malaga WA 6050
Ph: 08 9209 7655 E: samples.perth@alsglobal.comQSYDNEY 277-288 Woodmark Road Castle Hill NSW 2157
Ph: 02 8784 7777

QTOWNSVILLE 07 4796 1111

QWOLLONG 02 4225 1111

Environmental Division
Brisbane
Work Order Reference
EB1911202

Telephone: +61-7-3243 7222

CLIENT: Eco Logical Australia	TURNAROUND REQUIREMENTS: ☒ Standard TAT (List due date):	FOR LABORATORY
OFFICE: Brisbane	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	Custody Seal Initialed
PROJECT: Inland Rail - Border to Gowrie EIS	PROJECT NO: 10558	Free ice / frozen ice receipt?
ORDER NUMBER:	PURCHASE ORDER NO.:	Random Sample T
PROJECT MANAGER: Miles Yeates	CONTACT PH: 0467 738 954	Other comment:
SAMPLER: David Moore and Emma Blacklock	SAMPLER MOBILE:	RELINQUISHED BY:
COC Emailed to ALS? (YES)	EDD FORMAT (or default):	DATE/TIME:
Email Reports to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au		DATE/TIME: 2/5/19 16:35
Email Invoice to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au		

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

-18°C ± 4°C

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).									Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE <i>(refer to codes below)</i>	TOTAL BOTTLES	EA020-EC-P Conductivity and Salinity	EA025H Total Suspended Solids (TSS)	NT-1C Total Hardness as CaCO3	NT-8A Nutrients suite - Ammonia as N, Nitrite, Nitrate, Total N, TKN, NOx, Reactive P and Total P	EK060 Organic Nitrogen	W-2 Dissolved metals - 8 metals suite (As, Cd, Cr, Cu, Ni, Pb, Zn and Hg) - samples are field filtered	EP075B SIM PAHs (16 analytes)	EP008 Chlorophyll a (filter paper method)	All metals samples are field filtered. Frozen Chlorophyll a filter paper samples are included in this work order. Filter paper is 47mm GFF ~0.7 micron. Filtered volume is noted below and on jar. Filter paper was foil wrapped and kept frozen at minus 17°C up to delivery.	
1	Site 2	29/04/19 - 12 noon	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 850 mL	
2	Site 2R	29/04/19 - 12 noon	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 850 mL	
3	Site 3	30/04/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 250 mL	
4	Site 6	30/04/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 800 mL	
5	Site 7	30/04/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 750 mL	
6	Site 11	30/04/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 250 mL	
7	Site 14	1/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 250 mL	
8	Site 16	1/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 12 mL	
9	Site 18	1/05/2019 - 7 am	W	HT	5	X	X	X	X	X	X	X	X	Chl a volume filtered: 1,000 mL	
10	Site 20R	1/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 500 mL	
11	Site 23	1/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 600 mL	
12	Site 27	2/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 125 mL	
13	Site 28	1/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 75 mL	
14	Site 29	1/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 300 mL	
15	Site 30	2/05/2019 - 7 am	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 150 mL	
16	Site 39	2/05/2019 - 7 am	W		7	X	X	X	X	X	X	X	X	Chl a volume filtered: 700 mL. Two additional QA/QC bottles	
17	Site 40	2/05/2019 - 7 am	W	5	X	X	X	X	X	X	X	X	X	Chl a volume filtered: 550 mL	
18	Site 42	2/05/2019 - 7 am	W	5	X	X	X	X	X	X	X	X	X	Chl a volume filtered: 1,000 mL	
19	DUP	30/04/2019 - 7 am	W		4	X	X	X	X	X	X	X			
20	FB	30/04/2019 - 7 am	W		4	X	X	X	X	X	X	X			
TOTAL					100										

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic

V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Disulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved; Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag; LI = Lugols Iodine Preserved Bottles; STT = Sterile Sodium Thiosulfate Preserved Bottles.

CERTIFICATE OF ANALYSIS

Work Order : **EB1911202**
Client : **ECO LOGICAL AUSTRALIA PTY LTD**
Contact : **MILES YEATES**
Address : **PO BOX 1422**
FORTITUDE VALLEY QLD 4006
Telephone : **+61 02 8536 8667**
Project : **10558 Inland Rail - Border to Gowrie EIS**
Order number :
C-O-C number : **----**
Sampler : **DAVID MOORE, EMMA BLACKLOCK**
Site :
Quote number : **BN/142/18 V2**
No. of samples received : **20**
No. of samples analysed : **20**

Page : 1 of 15
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 02-May-2019 16:35
Date Analysis Commenced : 02-May-2019
Issue Date : 10-May-2019 14:11



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	WB Water Lab Brisbane, Stafford, QLD
Santusha Pandra	Organic Chemist	Brisbane Organics, Stafford, QLD



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

Ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenzo(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 2R	Site 3	Site 6	Site 7
Client sampling date / time				29-Apr-2019 12:00	29-Apr-2019 12:00	30-Apr-2019 07:00	30-Apr-2019 07:00	30-Apr-2019 07:00	
Compound	CAS Number	LOR	Unit	EB1911202-001	EB1911202-002	EB1911202-003	EB1911202-004	EB1911202-005	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	210	211	419	428	425	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.10	0.10	0.20	0.21	0.21	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	10	7	12	10	6	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	93	93	99	99	102	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	16	16	20	20	21	
Magnesium	7439-95-4	1	mg/L	13	13	12	12	12	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.003	0.003	0.002	0.001	0.002	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	0.001	0.001	<0.001	<0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	0.003	0.002	<0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.03	0.02	0.02	0.03	0.03	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	0.09	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	0.09	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.5	0.4	1.6	1.1	1.1	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.4	1.6	1.1	1.1	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 2R	Site 3	Site 6	Site 7
Client sampling date / time					29-Apr-2019 12:00	29-Apr-2019 12:00	30-Apr-2019 07:00	30-Apr-2019 07:00	30-Apr-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-001	EB1911202-002	EB1911202-003	EB1911202-004	EB1911202-005
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.5	0.4	1.6	1.1	1.2
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.08	0.06	0.08	0.04	0.04
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.04	0.03	<0.01	<0.01	<0.01
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m ³		5	4	65	10	14
Volume	----	0.01	L		0.85	0.85	0.25	0.8	0.75
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		33.3	36.2	31.4	29.2	30.8
2-Chlorophenol-D4	93951-73-6	1.0	%		74.4	82.3	71.4	67.9	70.6
2,4,6-Tribromophenol	118-79-6	1.0	%		62.5	69.1	61.5	60.0	59.0
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		83.6	91.6	78.5	75.6	77.7
Anthracene-d10	1719-06-8	1.0	%		73.4	76.6	71.3	67.2	68.0



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 2R	Site 3	Site 6	Site 7
Client sampling date / time					29-Apr-2019 12:00	29-Apr-2019 12:00	30-Apr-2019 07:00	30-Apr-2019 07:00	30-Apr-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-001	EB1911202-002	EB1911202-003	EB1911202-004	EB1911202-005
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	1.0	%		81.8	88.2	78.5	73.6	73.6

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 11	Site 14	Site 16	Site 18	Site 20R
Client sampling date / time				30-Apr-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	
Compound	CAS Number	LOR	Unit	EB1911202-006	EB1911202-007	EB1911202-008	EB1911202-009	EB1911202-010	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	293	349	1240	314	152	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.14	0.17	0.62	0.15	0.08	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	104	44	2170	8	10	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	73	83	179	118	72	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	16	7	42	34	19	
Magnesium	7439-95-4	1	mg/L	8	16	18	8	6	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.001	0.001	0.004	0.001	0.003	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.002	0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	0.002	0.002	0.009	0.002	0.004	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	0.008	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.03	1.50	0.02	0.02	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.05	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	0.02	<0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.07	<0.01	<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	5.7	2.3	29.6	0.8	1.6	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	5.7	2.3	31.1	0.8	1.6	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 11	Site 14	Site 16	Site 18	Site 20R
Client sampling date / time					30-Apr-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-006	EB1911202-007	EB1911202-008	EB1911202-009	EB1911202-010
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		5.7	2.3	31.2	0.8	1.6
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.33	0.10	3.93	0.04	0.32
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	0.10
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m ³		460	16	545	4	21
Volume	----	0.01	L		0.25	0.25	0.012	1	0.5
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		28.3	25.5	28.2	30.9	25.8
2-Chlorophenol-D4	93951-73-6	1.0	%		67.4	60.4	67.3	71.6	64.6
2,4,6-Tribromophenol	118-79-6	1.0	%		64.9	39.8	60.8	48.6	49.8
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		71.6	59.4	57.6	69.3	61.4
Anthracene-d10	1719-06-8	1.0	%		67.0	66.1	59.8	52.9	68.9



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 11	Site 14	Site 16	Site 18	Site 20R
Client sampling date / time					30-Apr-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-006	EB1911202-007	EB1911202-008	EB1911202-009	EB1911202-010
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	1.0	%		74.0	75.4	67.6	85.6	77.7

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 23	Site 27	Site 28	Site 29	Site 30
Client sampling date / time				01-May-2019 07:00	02-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	02-May-2019 07:00	
Compound	CAS Number	LOR	Unit	EB1911202-011	EB1911202-012	EB1911202-013	EB1911202-014	EB1911202-015	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	286	230	307	300	445	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.14	0.11	0.15	0.14	0.21	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	18	214	175	48	70	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	116	102	149	177	192	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	30	21	30	33	34	
Magnesium	7439-95-4	1	mg/L	10	12	18	23	26	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.002	0.001	0.001	0.003	<0.001	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	0.002	0.005	0.005	0.001	
Nickel	7440-02-0	0.001	mg/L	0.003	0.008	0.011	0.015	0.006	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.08	0.04	0.03	0.03	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.9	1.4	1.5	1.8	3.3	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.9	1.5	1.5	1.8	3.3	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 23	Site 27	Site 28	Site 29	Site 30
Client sampling date / time					01-May-2019 07:00	02-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	02-May-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-011	EB1911202-012	EB1911202-013	EB1911202-014	EB1911202-015
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.9	1.5	1.5	1.8	3.3
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.06	0.51	0.31	0.66	0.38
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	0.04	0.01	0.37	<0.01
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m ³		7	24	26	18	72
Volume	----	0.01	L		0.6	0.125	0.075	0.3	0.15
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		29.5	26.4	26.2	23.7	24.3
2-Chlorophenol-D4	93951-73-6	1.0	%		70.6	62.8	58.8	59.2	60.8
2,4,6-Tribromophenol	118-79-6	1.0	%		51.0	41.5	30.4	41.7	41.2
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		66.4	59.6	66.8	61.6	60.9
Anthracene-d10	1719-06-8	1.0	%		78.9	69.0	74.8	68.9	69.8



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 23	Site 27	Site 28	Site 29	Site 30
Client sampling date / time					01-May-2019 07:00	02-May-2019 07:00	01-May-2019 07:00	01-May-2019 07:00	02-May-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-011	EB1911202-012	EB1911202-013	EB1911202-014	EB1911202-015
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	1.0	%		92.2	81.3	87.4	81.2	83.7

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID		Site 39	Site 40	Site 42	DUP	FB				
Client sampling date / time				02-May-2019 07:00		02-May-2019 07:00		02-May-2019 07:00		30-Apr-2019 07:00		30-Apr-2019 07:00		
Compound	CAS Number	LOR	Unit	EB1911202-016		EB1911202-017		EB1911202-018		EB1911202-019		EB1911202-020		
				Result		Result		Result		Result		Result		
EA010P: Conductivity by PC Titrator														
Electrical Conductivity @ 25°C		----	1	µS/cm	1810		673		835		433		<1	
EA020EC: Salinity														
Salinity		----	0.01	g/kg	0.92		0.33		0.41		0.21		<0.01	
EA025: Total Suspended Solids dried at 104 ± 2°C														
Suspended Solids (SS)		----	5	mg/L	20		26		12		9		<5	
EA065: Total Hardness as CaCO3														
Total Hardness as CaCO3		----	1	mg/L	720		290		367		99		<1	
ED093F: Dissolved Major Cations														
Calcium		7440-70-2	1	mg/L	87		37		48		20		<1	
Magnesium		7439-95-4	1	mg/L	122		48		60		12		<1	
EG020F: Dissolved Metals by ICP-MS														
Arsenic		7440-38-2	0.001	mg/L	<0.001		<0.001		<0.001		0.001		<0.001	
Cadmium		7440-43-9	0.0001	mg/L	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
Chromium		7440-47-3	0.001	mg/L	<0.001		<0.001		<0.001		<0.001		<0.001	
Copper		7440-50-8	0.001	mg/L	0.002		0.002		0.001		<0.001		<0.001	
Nickel		7440-02-0	0.001	mg/L	0.010		0.003		0.003		<0.001		<0.001	
Lead		7439-92-1	0.001	mg/L	<0.001		<0.001		<0.001		<0.001		<0.001	
Zinc		7440-66-6	0.005	mg/L	<0.005		<0.005		<0.005		<0.005		<0.005	
EG035F: Dissolved Mercury by FIMS														
Mercury		7439-97-6	0.0001	mg/L	<0.0001		<0.0001		<0.0001		<0.0001		<0.0001	
EK055G: Ammonia as N by Discrete Analyser														
Ammonia as N		7664-41-7	0.01	mg/L	0.04		0.02		0.05		0.03		0.02	
EK057G: Nitrite as N by Discrete Analyser														
Nitrite as N		14797-65-0	0.01	mg/L	<0.01		0.02		0.02		<0.01		<0.01	
EK058G: Nitrate as N by Discrete Analyser														
Nitrate as N		14797-55-8	0.01	mg/L	0.07		0.90		1.25		<0.01		<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser														
Nitrite + Nitrate as N		----	0.01	mg/L	0.07		0.92		1.27		<0.01		<0.01	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser														
Organic Nitrogen as N		----	0.1	mg/L	0.6		0.3		0.2		1.0		<0.1	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser														
Total Kjeldahl Nitrogen as N		----	0.1	mg/L	0.6		0.3		0.2		1.0		<0.1	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser														



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 39	Site 40	Site 42	DUP	FB
Client sampling date / time					02-May-2019 07:00	02-May-2019 07:00	02-May-2019 07:00	30-Apr-2019 07:00	30-Apr-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-016	EB1911202-017	EB1911202-018	EB1911202-019	EB1911202-020
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.7	1.2	1.5	1.0	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.06	0.06	0.04	0.04	<0.01
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	0.02	0.02	<0.01	<0.01
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m ³		31	4	2	----	----
Volume	----	0.01	L		0.7	0.55	1	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		28.2	23.5	28.8	30.9	32.6
2-Chlorophenol-D4	93951-73-6	1.0	%		65.5	58.5	66.4	70.2	79.1
2,4,6-Tribromophenol	118-79-6	1.0	%		36.8	32.8	49.2	57.8	64.5
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		72.8	60.7	69.6	76.4	86.3
Anthracene-d10	1719-06-8	1.0	%		84.2	70.3	66.0	71.8	81.4

Page : 14 of 15
 Work Order : EB1911202
 Client : ECO LOGICAL AUSTRALIA PTY LTD
 Project : 10558 Inland Rail - Border to Gowie EIS



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 39	Site 40	Site 42	DUP	FB
Client sampling date / time					02-May-2019 07:00	02-May-2019 07:00	02-May-2019 07:00	30-Apr-2019 07:00	30-Apr-2019 07:00
Compound	CAS Number	LOR	Unit		EB1911202-016	EB1911202-017	EB1911202-018	EB1911202-019	EB1911202-020
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	1.0	%		100	87.3	75.1	75.8	93.3



Surrogate Control Limits

Sub-Matrix: **WATER**

		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	72
2-Chlorophenol-D4	93951-73-6	27	130
2,4,6-Tribromophenol	118-79-6	19	181
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	14	146
Anthracene-d10	1719-06-8	35	137
4-Terphenyl-d14	1718-51-0	36	154

Surface water quality results – Round 5 (May 2019)



Telephone : + 61-7-3243 7222

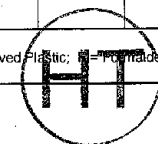
CHAIN OF CUSTODY ALS Laboratory: please tick →		ADELAIDE 3/1 Burma Road Pooraka SA 5095 Ph: 08 8162 5130 E: adelaide@alsglobal.com		MACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com		NEWCASTLE 5/585 Maitland Road Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com		SYDNEY 277-289 Ph: 02 8784 8555 E:	
		BRISBANE 2 Byth Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples.brisbane@alsglobal.com		MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9500 E: samples.melbourne@alsglobal.com		NOWRA 4/3 Geary Place North Nowra NSW 2541 Ph: 02 4423 2003 E: nowra@alsglobal.com		TOWNSVILLE 14- Ph: 07 4796 0600 E:	
GLADSTONE 48 Callimondah Drive Gladstone QLD 4680 Ph: 07 4978 7944 E: gladstone@alsglobal.com		MUDGEE 1/29 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee@mail@alsglobal.com		PERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com		WOLLONGONG 1 Ph: 02 4225 3125 E:			

CLIENT: Eco Logical Australia OFFICE: Brisbane PROJECT: Inland Rail - Border to Gowrie EIS ORDER NUMBER: PROJECT MANAGER: Miles Yeates SAMPLER: David Moore and Emily Messer COC Emailed to ALS? (NO) Email Reports to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au Email Invoice to (will default to PM if no other addresses are listed): milesy@ecoaus.com.au			TURNAROUND REQUIREMENTS : ☒ Standard TAT (List due date): (Standard TAT may be longer for some tests e.g. Ultra Trace Organics) ☐ Non Standard or urgent TAT (List due date): ALS QUOTE NO.: BN/142/18 V2 COUNTRY OF ORIGIN: Australia CONTACT PH: 0467 738 954 SAMPLER MOBILE: EDD FORMAT (or default): RELINQUISHED BY: <i>[Signature]</i> DATE/TIME: 20/5/14 7:50am			FOR LABORATOR: Custody Seal Intact? Free ice / frozen ice bri: Random Sample Temperature on Receipt: °C Other comment: RECEIVED BY: <i>[Signature]</i> DATE/TIME: 20.5.14 7.50 RELINQUISHED BY: DATE/TIME: 20/5/14 7:50		
---	--	--	--	--	--	---	--	--

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY		SAMPLE DETAILS MATRIX: Solid(S) Water(W)		CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required).										Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE (refer to codes below)	TOTAL BOTTLES	EA020-EC-P Conductivity and Salinity	EA025H Total Suspended Solids (TSS)	NT-1C Total Hardness as CaCO3	NT-8A Nutrients suite - Ammonia as N, Nitrite, Nitrate, Total N, TKN, NOx, Reactive P and Total P	EK060 Organic Nitrogen	W-2 Dissolved metals - 8 metals suite (As, Cd, Cr, Cu, Ni, Pb, Zn and Hg) - samples are field filtered	EP075B SIM PAHs (16 analytes)	EP008 Chlorophyll a (filter paper method)			
1	Site 2	16/5/19 12:00	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 650mL		
2	Site 6R	16/5/19 12:00	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 500 mL		
3	Site 7	16/5/19 12:00	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 1,000mL		
4	Site 18	17/5/19 12:00	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 1,000 mL		
5	Site 42	18/5/19 12:00	W		5	X	X	X	X	X	X	X	X	Chl a volume filtered: 1,000 mL		
6	DUP	16/5/19 12:00	W		6	X	X	X	X	X	X	X		+ 2 Q/A/QC bottles		
7	FB	16/5/19 12:00	W		4	X	X	X	X	X	X	X				
TOTAL					35											

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP = Airfreight Unpreserved Plastic
 V = VOA Vial HCl Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved; AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; H = Polyethylene Preserved Glass;
 Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag; LI = Lugiois Iodine Preserved Bottles; STT = Sterile Sodium Thiosulfate Preserved Bottles.



CERTIFICATE OF ANALYSIS

Work Order : **EB1912777**
Client : **ECO LOGICAL AUSTRALIA PTY LTD**
Contact : **MILES YEATES**
Address : **PO BOX 1422**
FORTITUDE VALLEY QLD 4006
Telephone : **+61 02 8536 8667**
Project : **10558 Inland Rail - Border to Gowrie EIS**
Order number :
C-O-C number :
Sampler : **DAVID MOORE, EMILY MESSER**
Site :
Quote number : **BN/142/18 V2**
No. of samples received : **7**
No. of samples analysed : **7**

Page : 1 of 8
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 20-May-2019 07:50
Date Analysis Commenced : 20-May-2019
Issue Date : 28-May-2019 09:01



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	WB Water Lab Brisbane, Stafford, QLD
Santusha Pandra	Organic Chemist	Brisbane Organics, Stafford, QLD



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

Ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenzo(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 6R	Site 7	Site 18	Site 42
Client sampling date / time				16-May-2019 12:00	16-May-2019 12:00	16-May-2019 12:00	17-May-2019 12:00	18-May-2019 12:00	
Compound	CAS Number	LOR	Unit	EB1912777-001	EB1912777-002	EB1912777-003	EB1912777-004	EB1912777-005	
				Result	Result	Result	Result	Result	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	290	437	440	320	1290	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.14	0.21	0.21	0.15	0.64	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	12	11	6	14	<5	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	70	86	93	101	509	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	15	18	19	29	62	
Magnesium	7439-95-4	1	mg/L	8	10	11	7	86	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.002	0.001	0.001	<0.001	<0.001	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	0.002	0.002	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.03	0.05	0.02	0.03	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	0.02	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.02	<0.01	0.24	<0.01	1.38	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.02	<0.01	0.24	<0.01	1.40	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	0.7	1.1	1.0	0.8	0.2	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.7	1.1	1.0	0.8	0.2	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 6R	Site 7	Site 18	Site 42
Client sampling date / time					16-May-2019 12:00	16-May-2019 12:00	16-May-2019 12:00	17-May-2019 12:00	18-May-2019 12:00
Compound	CAS Number	LOR	Unit		EB1912777-001	EB1912777-002	EB1912777-003	EB1912777-004	EB1912777-005
					Result	Result	Result	Result	Result
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		0.7	1.1	1.2	0.8	1.6
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.03	0.03	0.02	0.04	<0.01
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EP008: Chlorophyll a & Pheophytin a									
Chlorophyll a	----	1	mg/m ³		7	11	7	5	1
Volume	----	0.01	L		0.65	0.5	1	1	1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		30.4	28.9	25.5	34.0	27.9
2-Chlorophenol-D4	93951-73-6	1.0	%		84.6	80.4	68.5	93.3	69.9
2,4,6-Tribromophenol	118-79-6	1.0	%		60.0	54.1	40.3	51.4	25.2
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		82.5	80.7	79.6	95.6	84.0
Anthracene-d10	1719-06-8	1.0	%		57.3	57.4	77.9	104	83.3

Page : 5 of 8
 Work Order : EB1912777
 Client : ECO LOGICAL AUSTRALIA PTY LTD
 Project : 10558 Inland Rail - Border to Gowie EIS



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Site 2	Site 6R	Site 7	Site 18	Site 42
Client sampling date / time					16-May-2019 12:00	16-May-2019 12:00	16-May-2019 12:00	17-May-2019 12:00	18-May-2019 12:00
Compound	CAS Number	LOR	Unit		EB1912777-001	EB1912777-002	EB1912777-003	EB1912777-004	EB1912777-005
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	1.0	%		60.8	61.4	82.5	112	89.7

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	DUP	FB	----	----	----
Client sampling date / time				16-May-2019 12:00	16-May-2019 12:00	----	----	----	
Compound	CAS Number	LOR	Unit	EB1912777-006	EB1912777-007	-----	-----	-----	
				Result	Result	----	----	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	435	<1	----	----	----	
EA020EC: Salinity									
Salinity	----	0.01	g/kg	0.21	<0.01	----	----	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	7	<5	----	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	93	<1	----	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	19	<1	----	----	----	
Magnesium	7439-95-4	1	mg/L	11	<1	----	----	----	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.001	<0.001	----	----	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----	
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	----	----	----	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	----	----	----	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	----	----	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	----	----	----	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.05	<0.01	----	----	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	----	----	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.24	<0.01	----	----	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.24	<0.01	----	----	----	
EK060G:Organic Nitrogen as N (TKN-NH3) By Discrete Analyser									
Organic Nitrogen as N	----	0.1	mg/L	1.0	<0.1	----	----	----	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.0	<0.1	----	----	----	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	DUP	FB	----	----	----
Client sampling date / time					16-May-2019 12:00	16-May-2019 12:00	----	----	----
Compound	CAS Number	LOR	Unit		EB1912777-006	EB1912777-007	-----	-----	-----
					Result	Result	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser - Continued									
^ Total Nitrogen as N	----	0.1	mg/L		1.2	<0.1	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.02	<0.01	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	<1.0	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	<1.0	----	----	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	<1.0	----	----	----
Fluorene	86-73-7	1.0	µg/L		<1.0	<1.0	----	----	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	<1.0	----	----	----
Anthracene	120-12-7	1.0	µg/L		<1.0	<1.0	----	----	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	<1.0	----	----	----
Pyrene	129-00-0	1.0	µg/L		<1.0	<1.0	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	<1.0	----	----	----
Chrysene	218-01-9	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	<1.0	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	<1.0	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	<1.0	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L		<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	µg/L		<0.5	<0.5	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		25.6	29.6	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		70.1	78.5	----	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%		39.0	34.8	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		72.4	82.0	----	----	----
Anthracene-d10	1719-06-8	1.0	%		57.3	89.2	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		63.3	95.6	----	----	----



Surrogate Control Limits

Sub-Matrix: **WATER**

		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	72
2-Chlorophenol-D4	93951-73-6	27	130
2,4,6-Tribromophenol	118-79-6	19	181
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	14	146
Anthracene-d10	1719-06-8	35	137
4-Terphenyl-d14	1718-51-0	36	154

APPENDIX S

Surface Water Quality Technical Report

Appendix C General field assessment water quality conditions

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Appendix C

General field assessment water quality conditions

Table C.1 Monitoring site description with indicative photos

Site	Description	Photo
2R B2G Macintyre Brook	The site was located on the Macintyre River, downstream from the Project footprint. Both banks had presence of riparian vegetation including trees and shrubs. No barriers to fish movement were observed. There was water extraction infrastructure observed at the site. The surrounding land uses included industrial and moderate grazing.	
3 B2G Macintyre Brook	The site was located on Macintyre Brook downstream from the Project footprint. Both banks retained riparian vegetation including trees and shrubs. No barriers to fish movement were observed. The surrounding land uses were principally light grazing road structure.	
6 B2G Macintyre Brook	The site was located on the Macintyre Brook, downstream from the Project footprint. The water was considered a deep pool with riparian vegetation present on either side of the banks. During high flow, moderate fish passage would be achieved with natural vegetation barriers within the water. Surrounding land uses included irrigated cropping.	

Site	Description	Photo
7 B2G Macintyre Brook	The site was located on the Macintyre River, downstream of the Project footprint. The riparian vegetation included shrubs and trees. Notable fish barriers included artificial bridge structure and a pipe culvert, causing barriers to fish movement. Surrounding land uses included cropping.	
B2G 11 Canning Creek	The site was located on Canning Creek, downstream of the Project footprint. Riparian vegetation was present, predominantly as grasses and shrubs. Pooled water was identified, providing limited fish passage, however in high flow, moderate fish passage would be facilitated. Surrounding land uses included moderate grazing.	
B2G 14 Un-named	The site was located on an un-named tributary within the Canning Creek water quality zone. Water was pooled providing no fish passage, however during high flow fish passage would be moderately restricted. Minimal riparian vegetation was present.	

Site	Description	Photo
B2G 16 Un-named	The site was located on an un-named tributary within the Canning Creek Water Quality zone on the Project footprint corridor. The water present was in a deep pool providing no fish passage, however during high flow passage would improve to be moderately restricted. Riparian vegetation was limited to shrubs with minimal trees present.	
B2G 24 Grasstree Creek	The site was located on Grasstree Creek, upstream of the Project footprint. The water was pooled with no fish passage, however during high flow fish passage would improve to be moderately restricted. There was limited riparian vegetation present. Surrounding land uses included light grazing.	
B2G 27 Condamine River	The site was located on the Condamine River, upstream of the Project footprint. During the investigation there was a small, isolated pool present. The assessment site was considered to have no fish passage, and during high flow would restrict fish passage. The riparian vegetation present is predominately consisted of grasses and shrubs with minimal tree coverage. Surrounding land uses included agricultural use.	

Site	Description	Photo
B2G 30 Condamine River	The site was located on the Condamine River, downstream of the Project footprint. The water was in the form of a pool and run, providing moderate fish passage. The riparian vegetation contains a mixture of grasses, shrubs and trees. Within the watercourse, an artificial weir was present. The surrounding land use included irrigated cropping.	
B2G 33 Condamine River (North Branch)	The site was located on the Condamine River (North Branch), downstream of the Project footprint. The site was dry at the time of assessment. Riparian vegetation was present as a mixture of grasses, shrubs and trees. The surrounding land uses included cropping.	
B2G 39 Westbrook Creek	The site was located on Westbrook Creek, downstream of the Project footprint. Pooled water was present, providing no fish passage, however during high flow fish passage would improve to be moderately restricted. The riparian vegetation present is predominantly contained grasses with minimal shrub coverage. The surrounding land uses included grazing.	

Site	Description	Photo
B2G 40 Dry Creek	The site was located on Dry Creek, downstream of the Project footprint. There was a shallow pool of water present providing no fish passage, however during high flow there would be moderate fish passage. Limited riparian vegetation was present with pasture surrounding the watercourse.	
B2G 42 Dry Creek	The site was located on Dry Creek, downstream of the Project footprint. There was a pool of water present providing no fish passage, however during high flow fish passage would be moderate. The riparian vegetation predominantly consisted of grasses. The surrounding land uses included pasture and light grazing.	

Table note:

Sites that were not suitable for water quality sampling assessment are omitted from this table

APPENDIX S

Surface Water Quality Technical Report

Appendix D Database interrogation data

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Appendix D

Database interrogation data

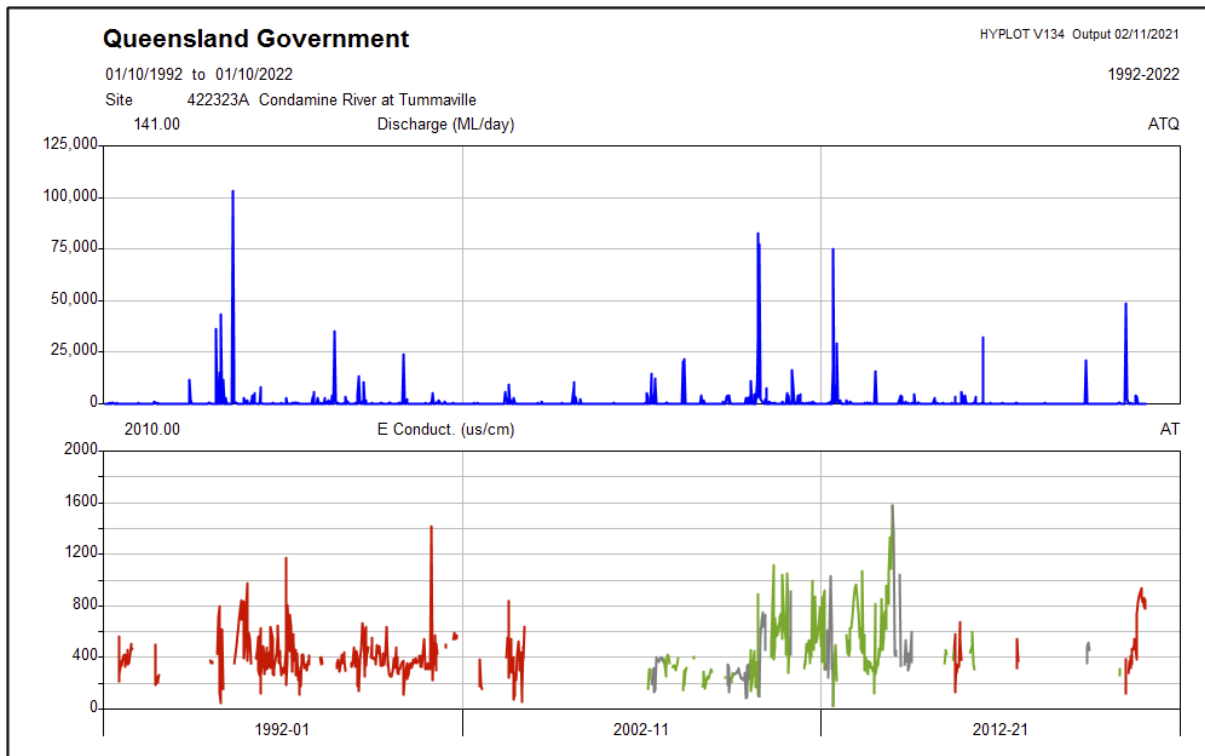


Figure D-1 Historic time series of electrical conductivity and discharge for Condamine River at Tummaville (422323A)

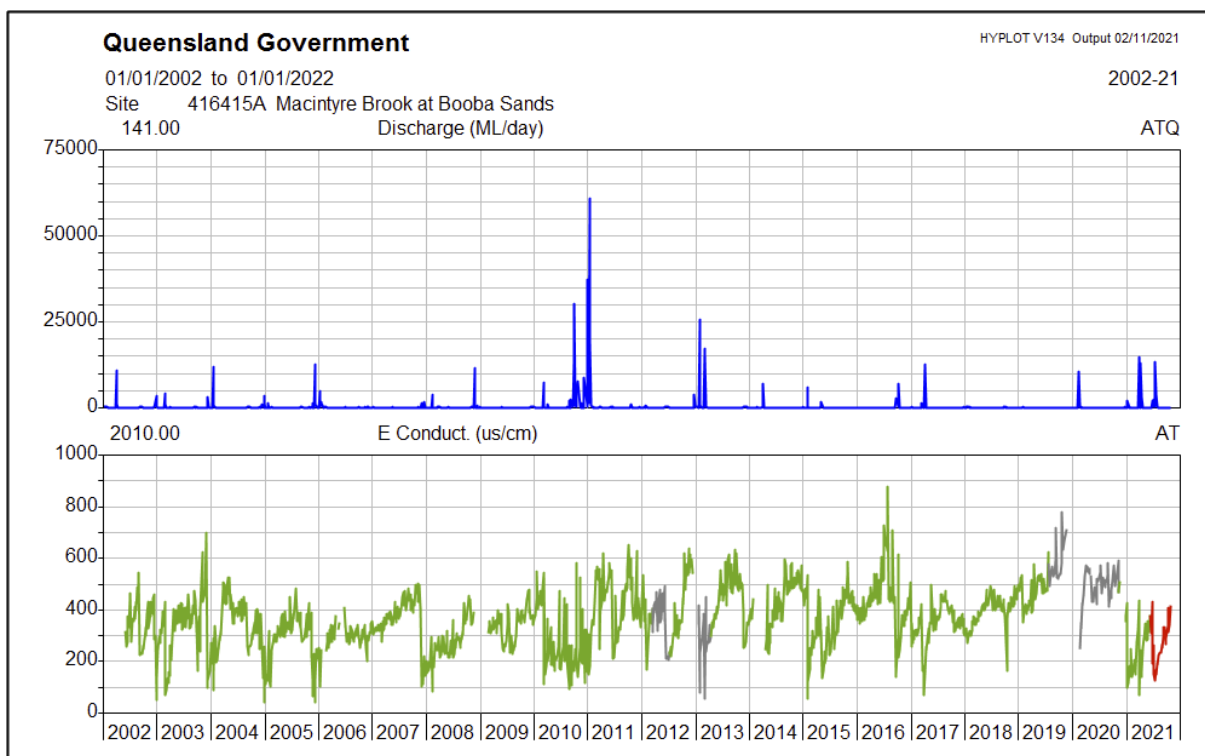


Figure D-2 Historic time series of electrical conductivity and discharge for Macintyre Brook at Booba Sands (416415A)

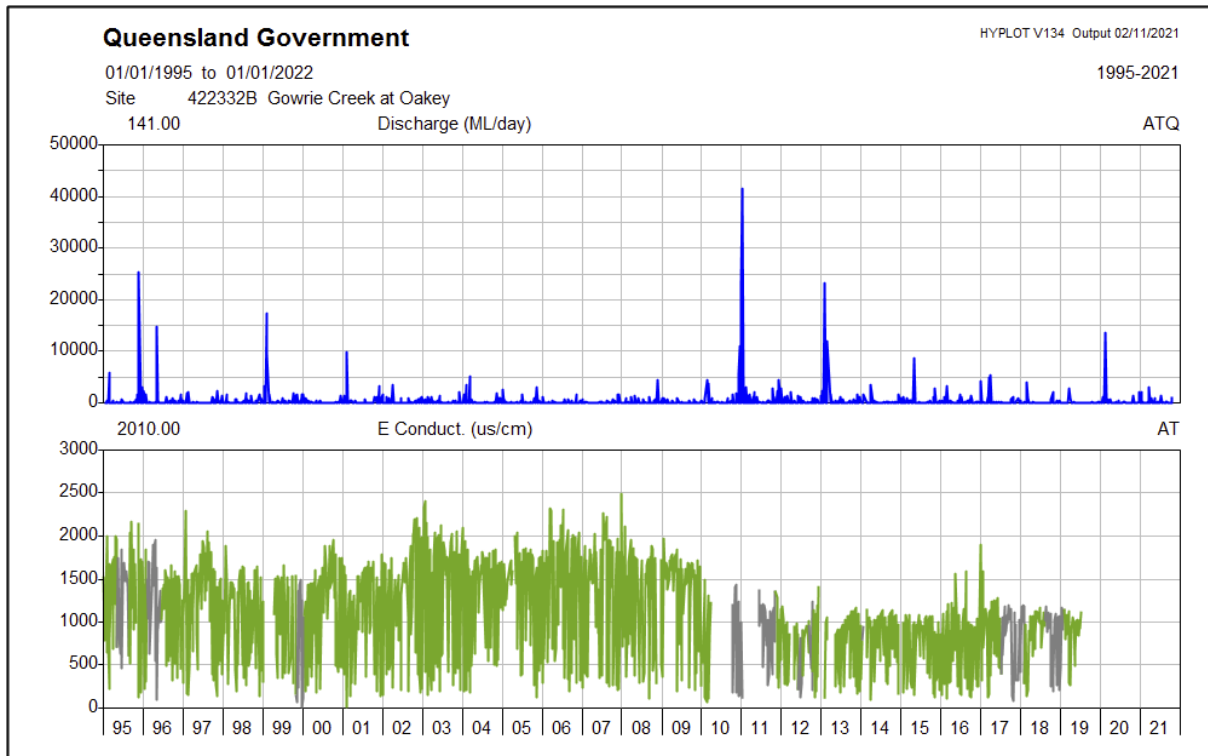
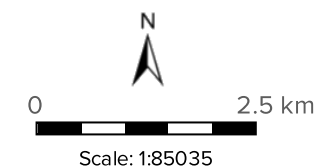


Figure D-3 Historic time series of electrical conductivity and discharge for Gowrie Creek at Oakey (416415A)



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Print date: 12/8/2019

Datum: Geocentric Datum of Australia 1994
Projection: Web Mercator EPSG 102100

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27°28'51"S 151°42'40"E

27°28'51"S 151°52'13"E

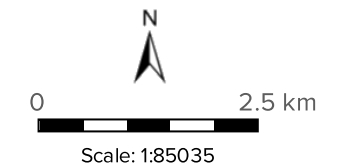


27°35'50"S 151°42'40"E

27°35'50"S 151°52'13"E



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Datum: Geocentric Datum of Australia 1994
Projection: Web Mercator EPSG 102100

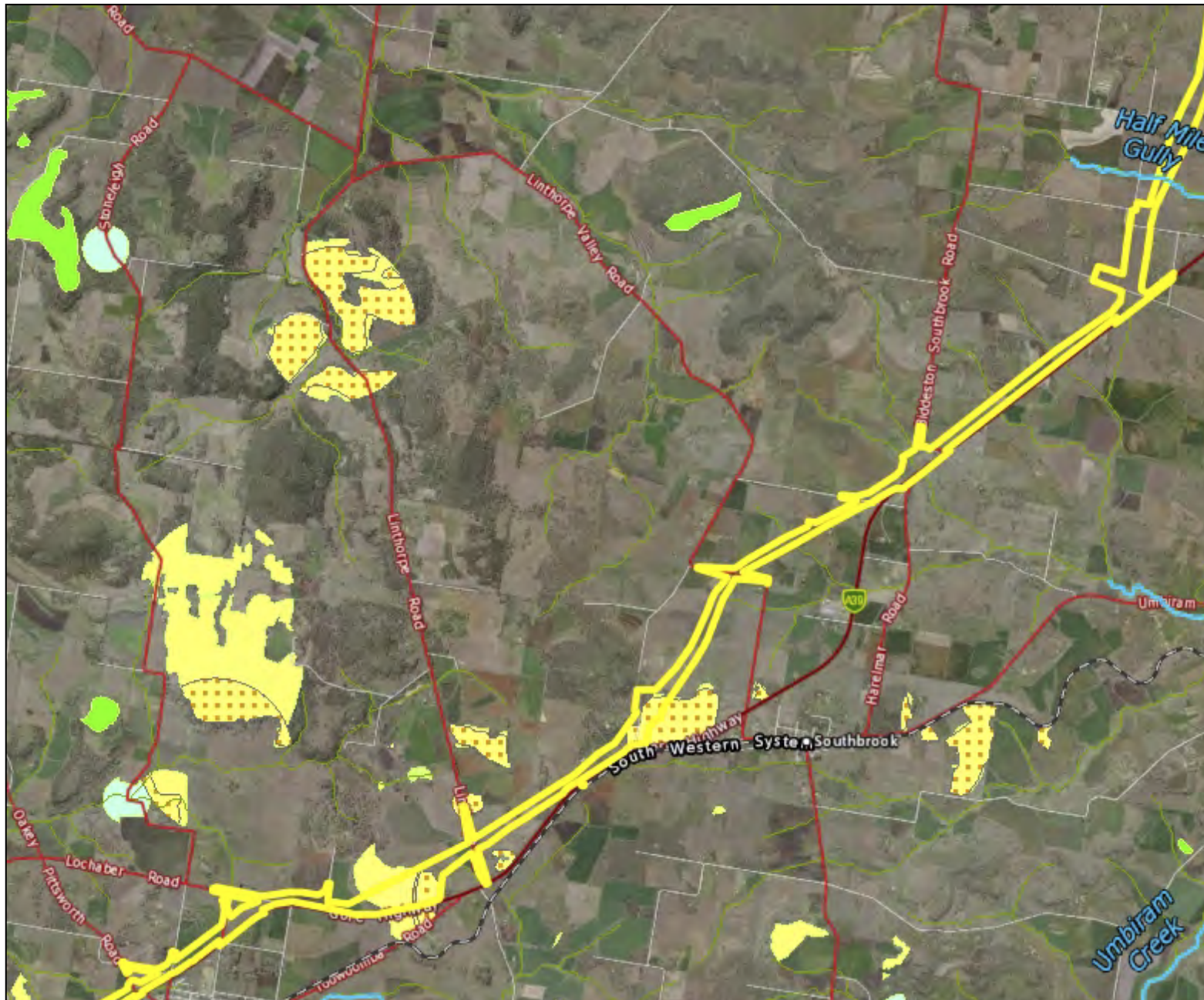
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27°35'34"S 151°36'27"E

27°35'34"S 151°46'0"E

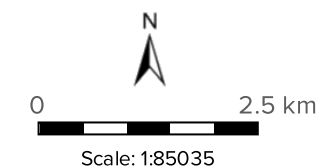


27°42'32"S 151°36'27"E

27°42'32"S 151°46'0"E



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27°39'13"S 151°29'31"E

27°39'13"S 151°39'4"E

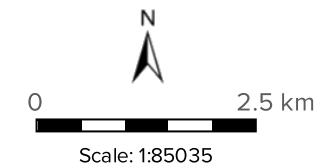


27°46'11"S 151°29'31"E

27°46'11"S 151°39'4"E



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27°42'33"S 151°22'41"E

27°42'33"S 151°32'13"E

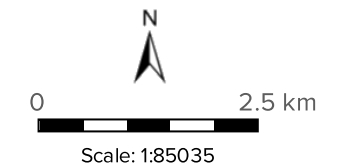


27°49'31"S 151°22'41"E

27°49'31"S 151°32'13"E



Legend located on next page



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27°47'8"S 151°14'38"E

27°47'8"S 151°24'10"E

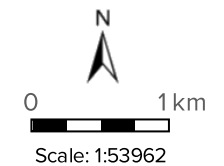


27°54'6"S 151°14'38"E

27°54'6"S 151°24'10"E



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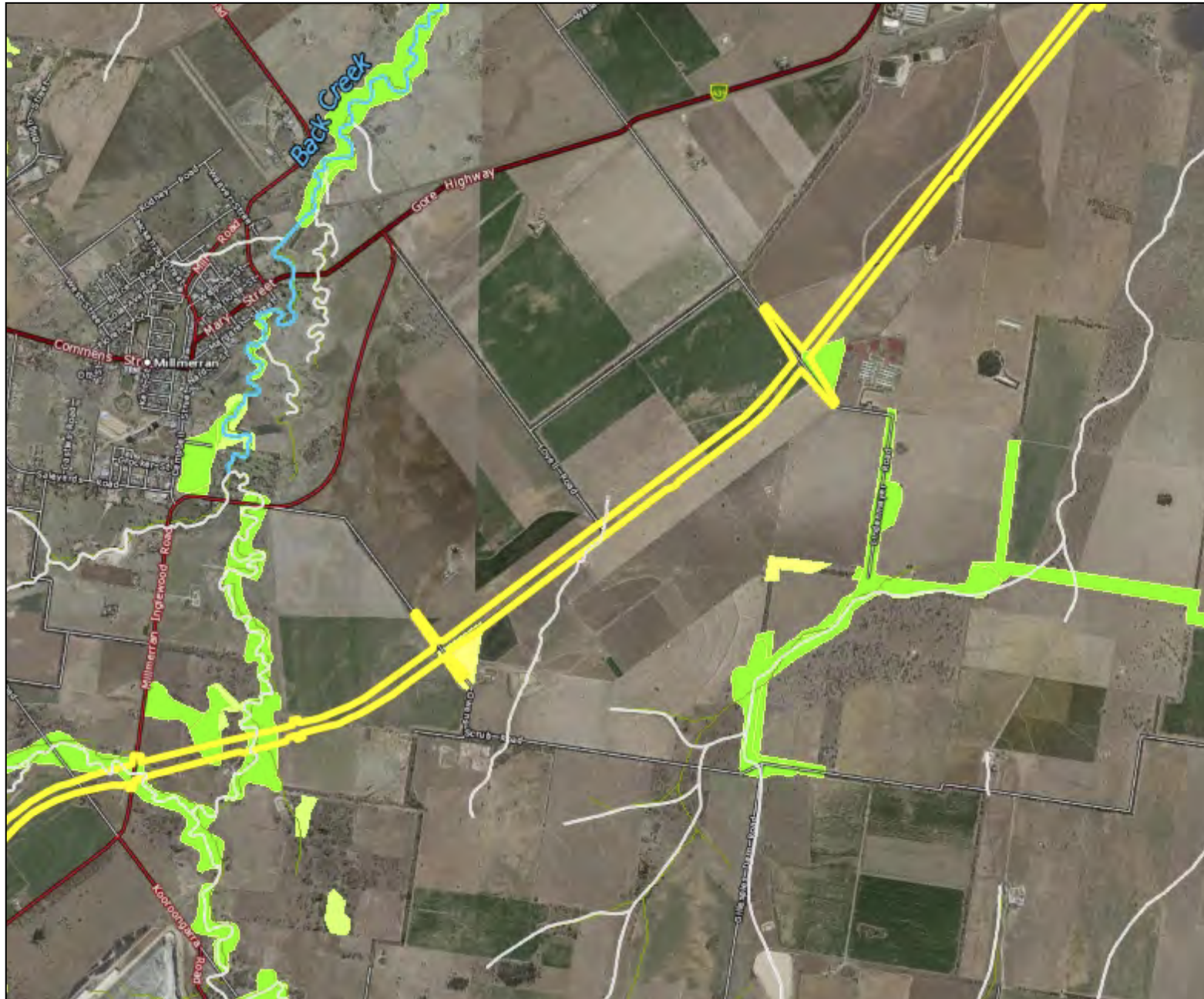
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27°51'7"S 151°15'14"E

27°51'7"S 151°21'17"E



27°55'31"S 151°15'14"E

27°55'31"S 151°21'17"E



Legend located on next page



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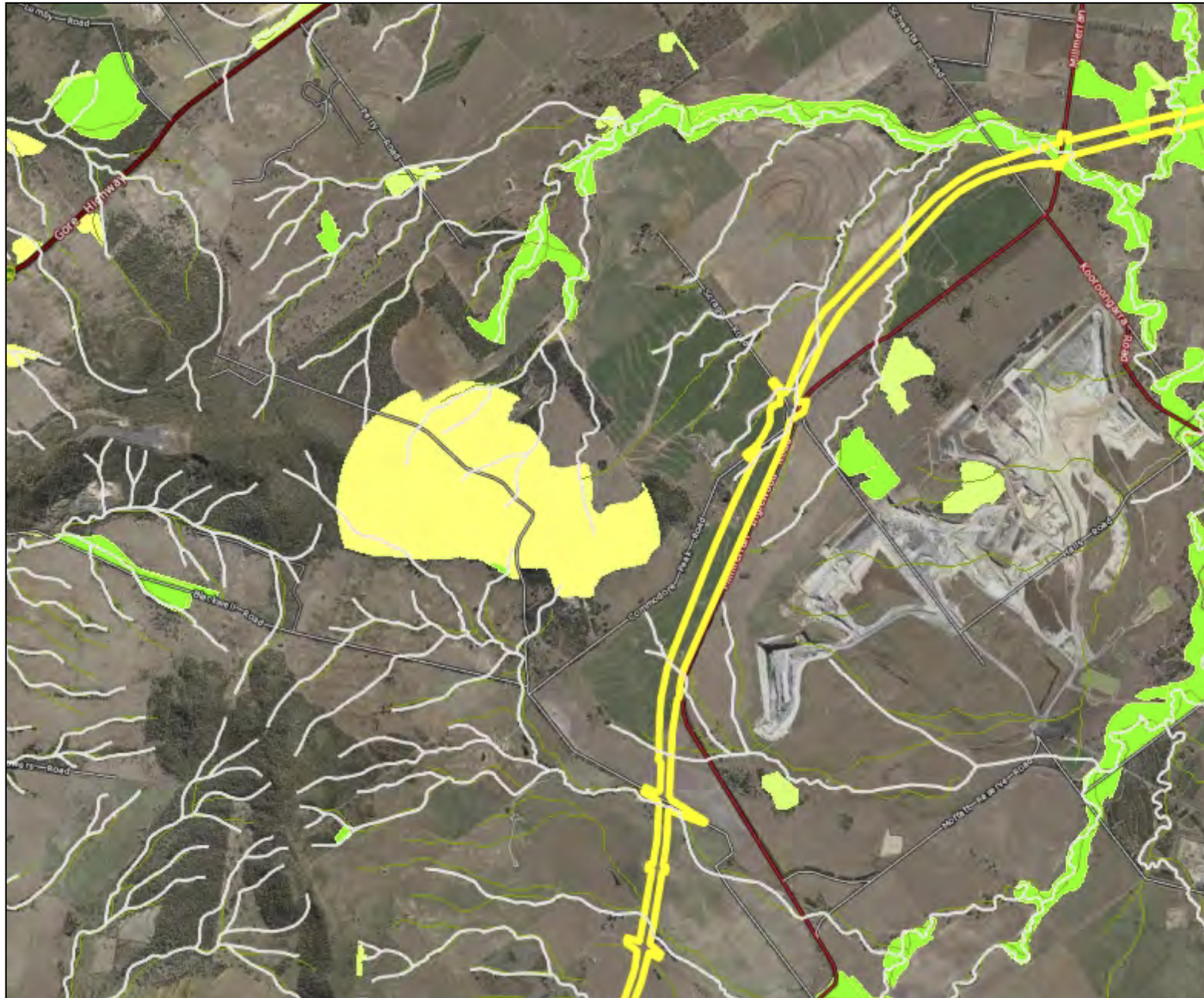
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27°53'51"S 151°10'35"E

27°53'51"S 151°16'39"E

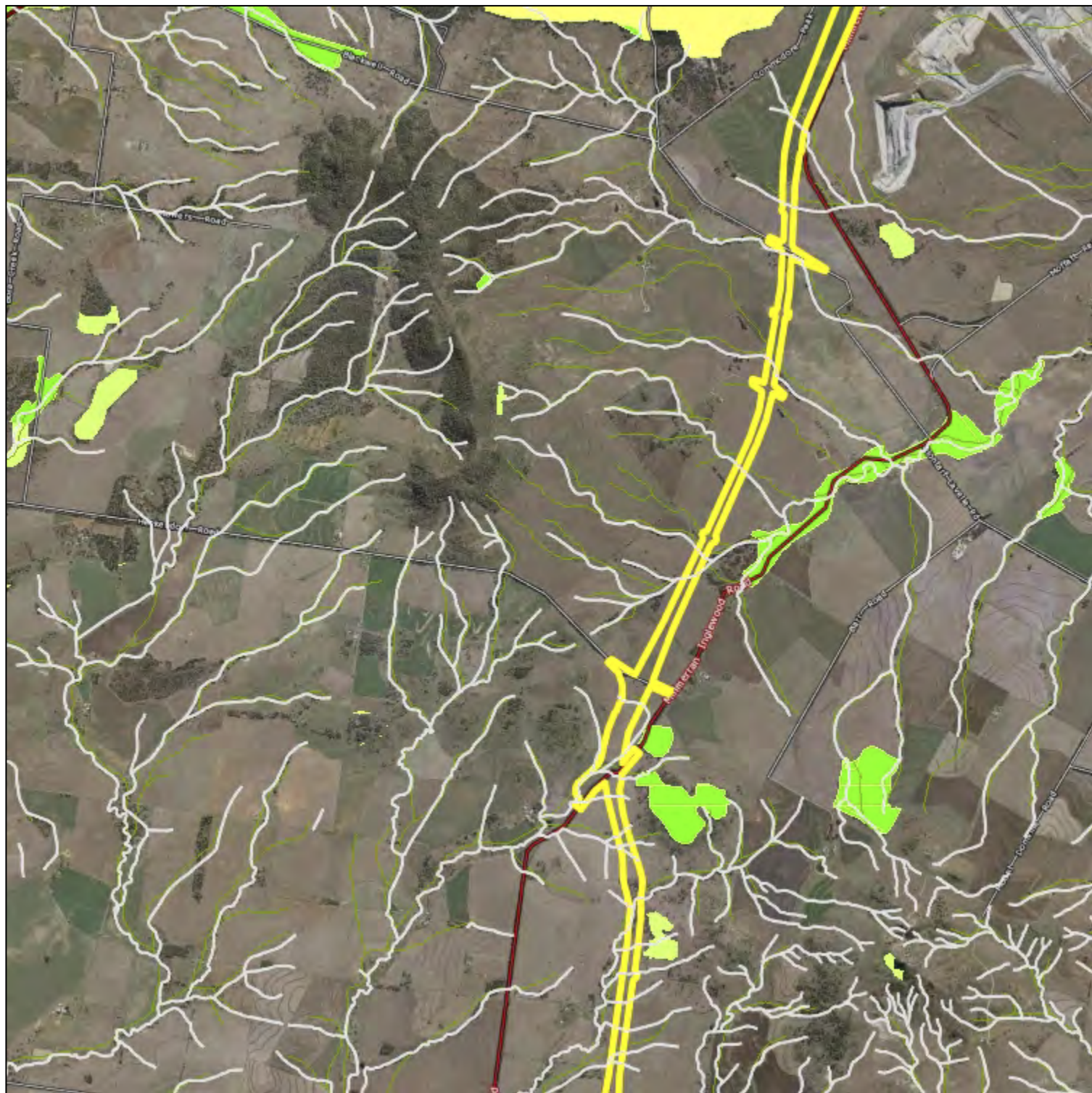


27°58'16"S 151°10'35"E

27°58'16"S 151°16'39"E

27°56'15"S 151°9'44"E

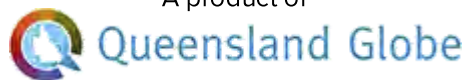
27°56'15"S 151°15'30"E



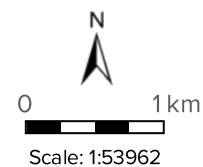
28°1'20"S 151°9'44"E

28°1'20"S 151°15'30"E

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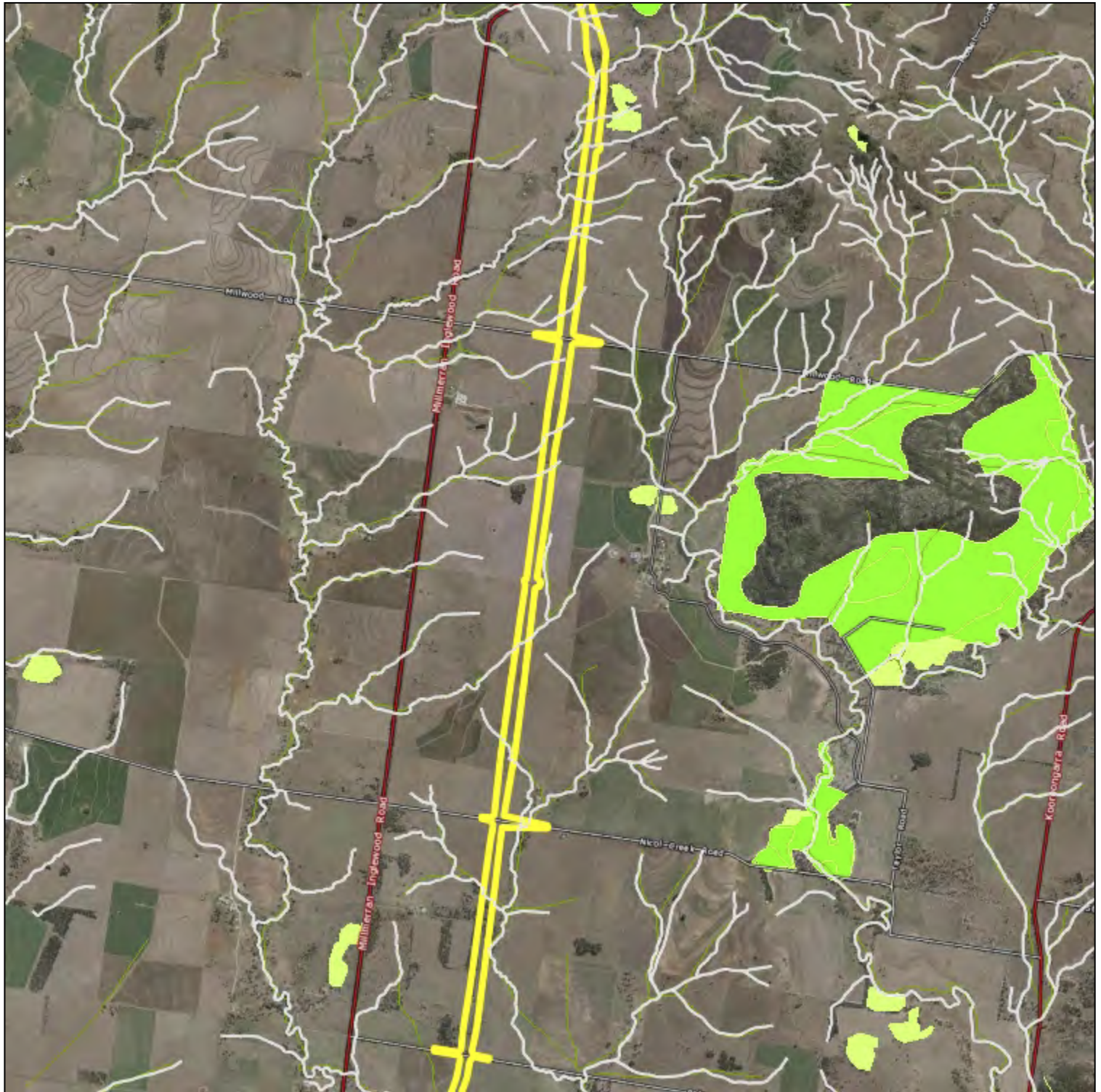
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28°0'7"S 151°9'56"E

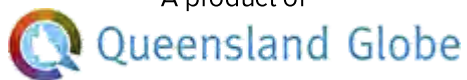
28°0'7"S 151°15'42"E



28°5'12"S 151°9'56"E

28°5'12"S 151°15'42"E

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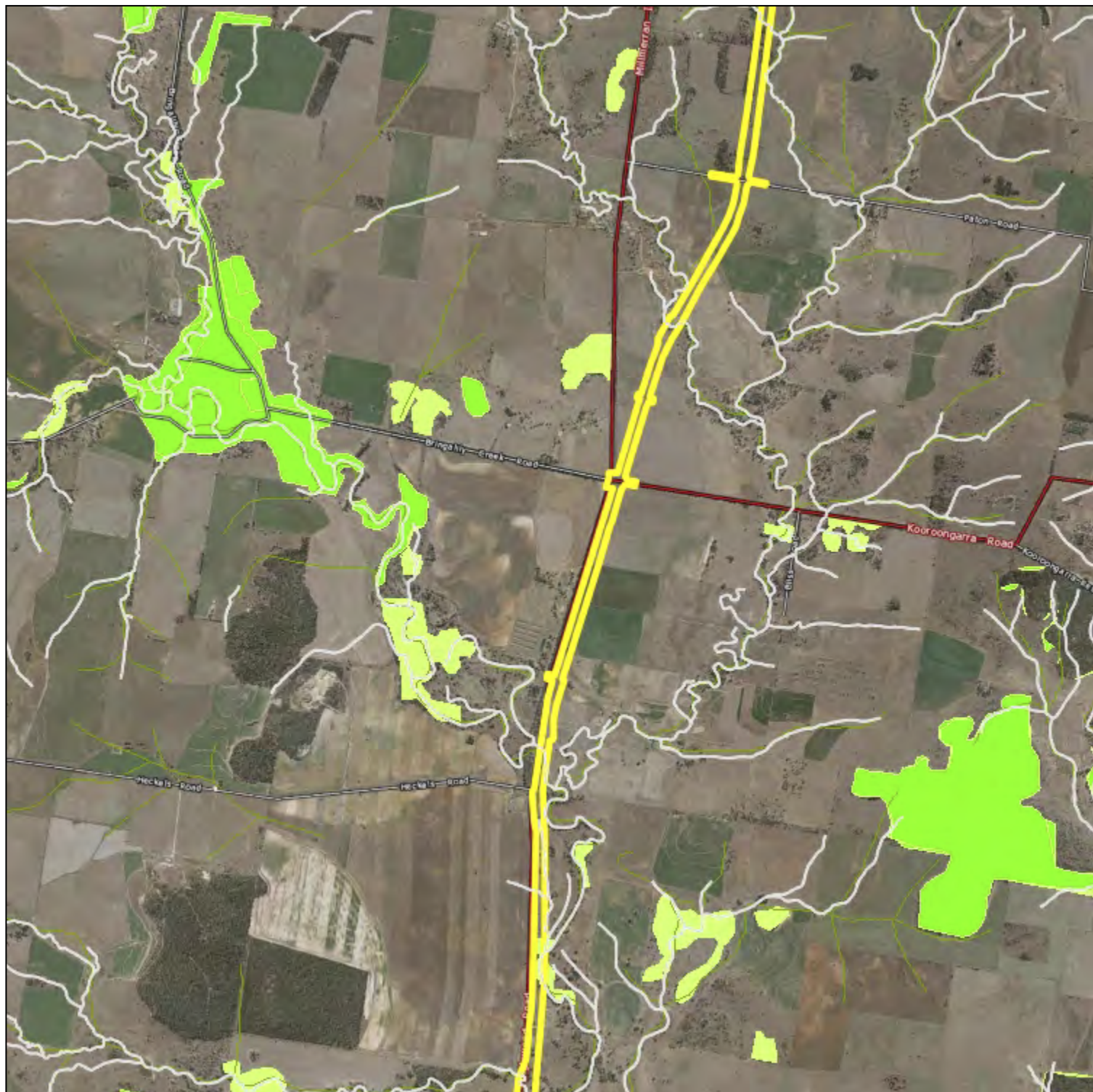
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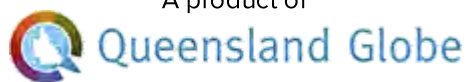
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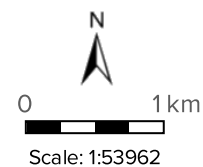
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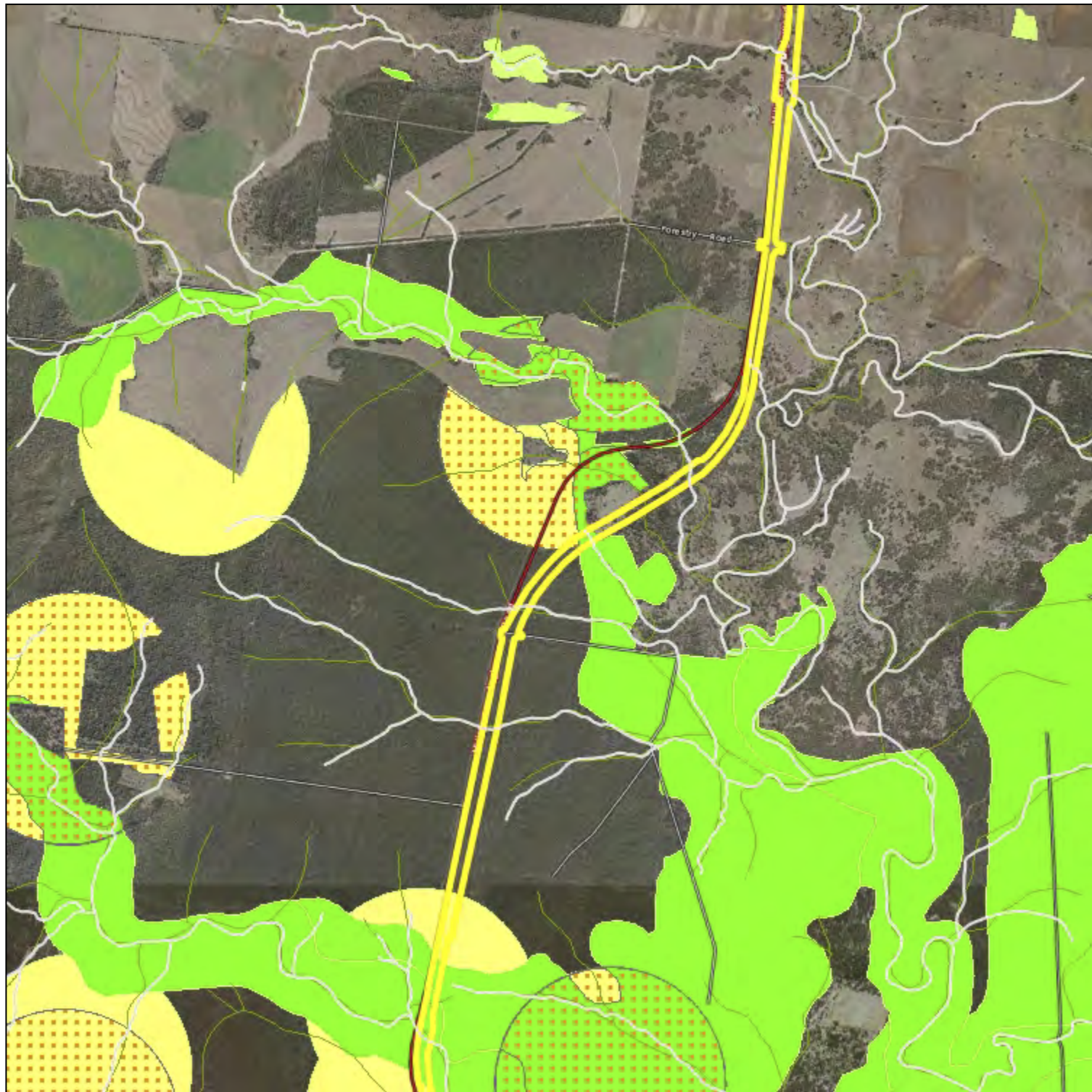
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28°8'59"S 151°7'5"E

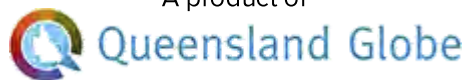
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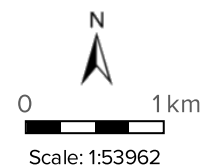
28°14'4"S 151°7'5"E

28°14'4"S 151°12'51"E

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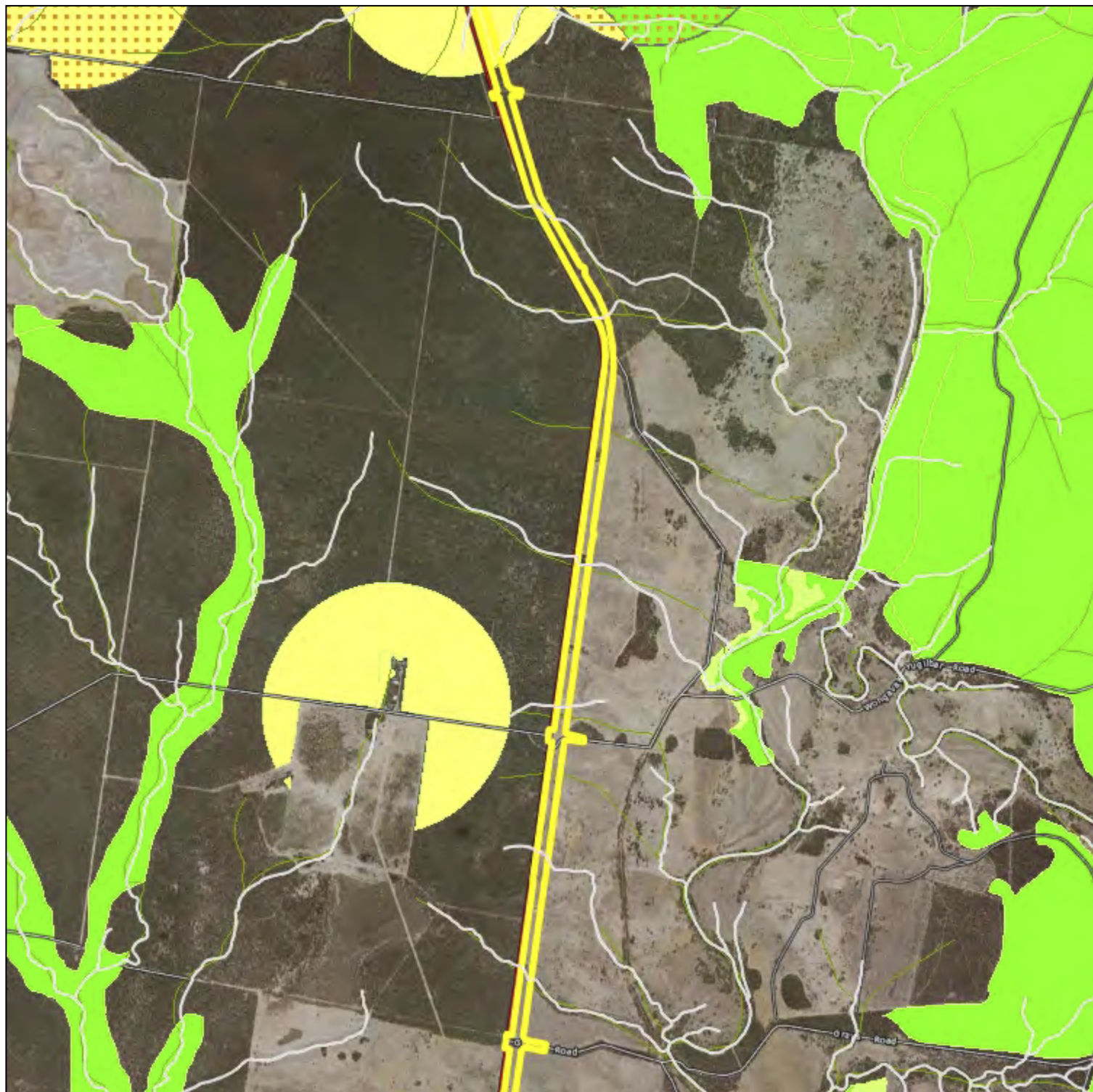
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28°14'24"S 151°7'4"E

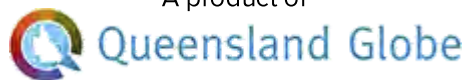
28°14'24"S 151°12'31"E



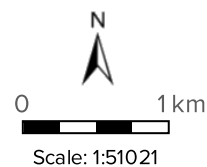
28°19'12"S 151°7'4"E

28°19'12"S 151°12'31"E

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28°18'38"S 151°6'6"E

28°18'38"S 151°11'33"E

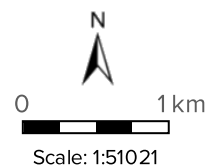
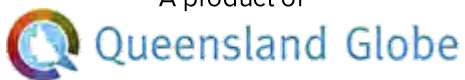


28°23'26"S 151°6'6"E

28°23'26"S 151°11'33"E

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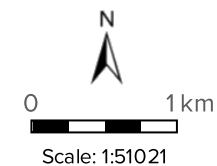
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28°21'14"S 151°1'20"E

28°21'14"S 151°7'3"E



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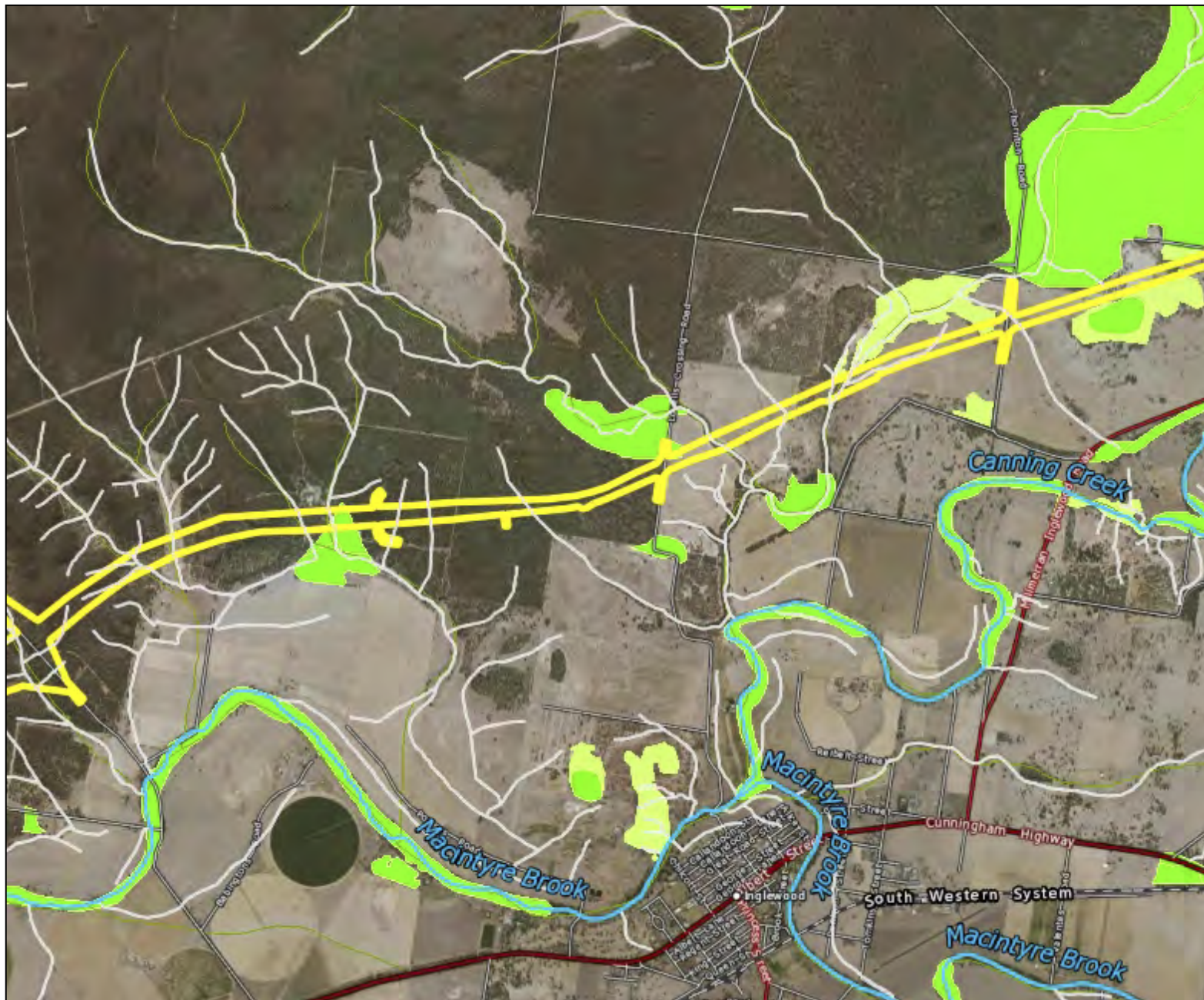
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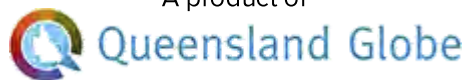
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28°25'23"S 151°7'3"E

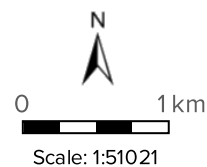




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28°26'22"S 150°52'37"E

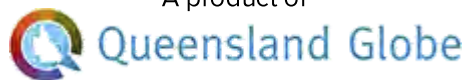
28°26'22"S 150°58'4"E



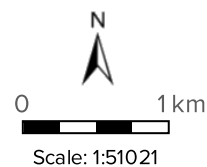
28°31'10"S 150°52'37"E

28°31'10"S 150°58'4"E

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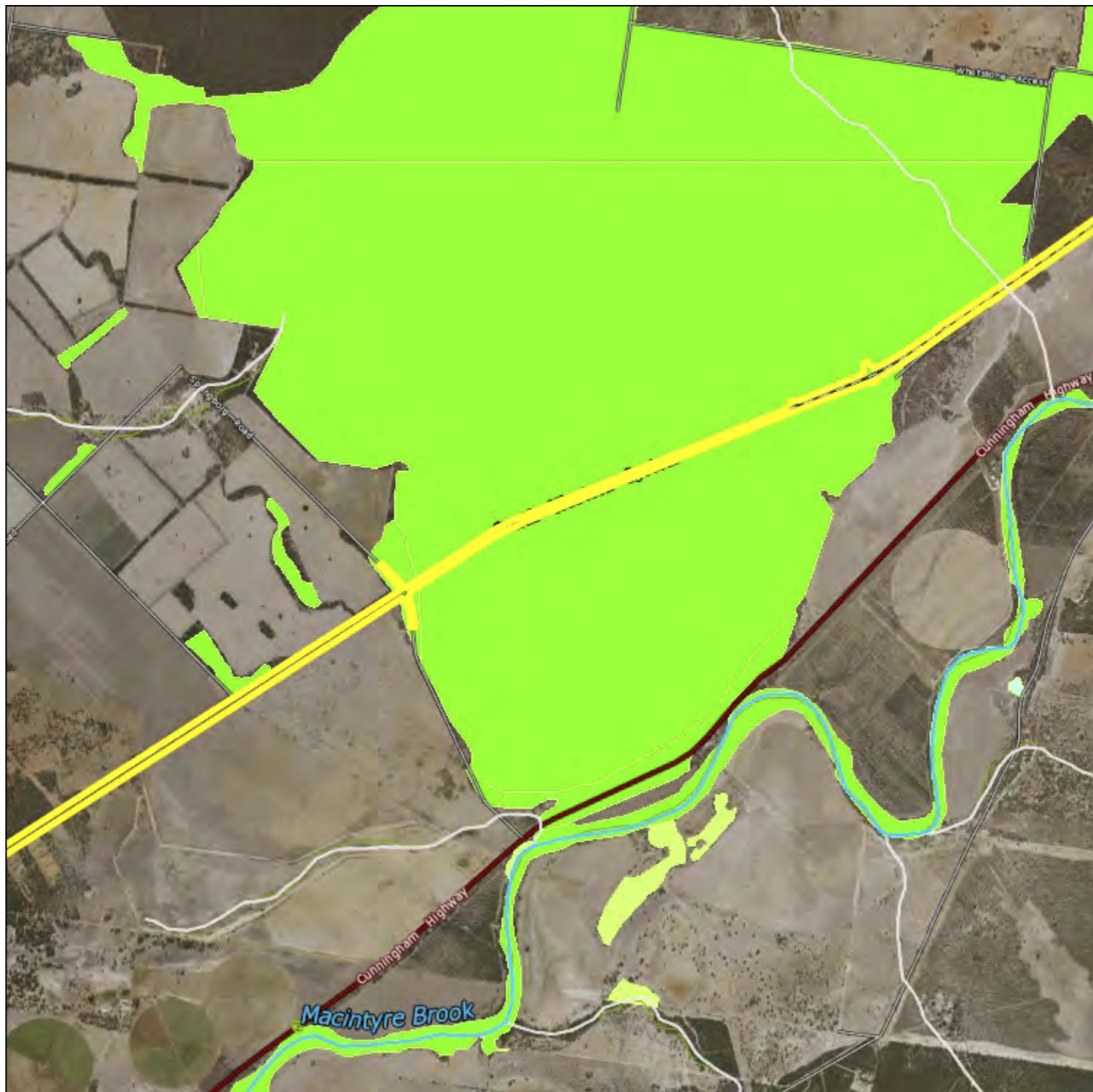
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28°29'18"S 150°49'34"E

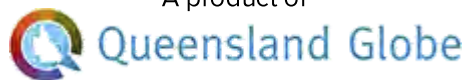
28°29'18"S 150°55'1"E



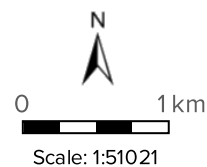
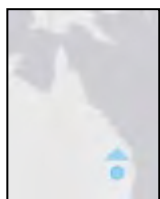
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28°34'6"S 150°55'1"E

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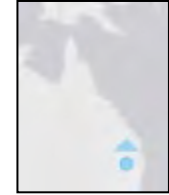
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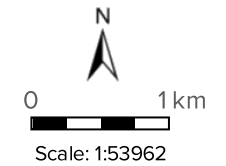
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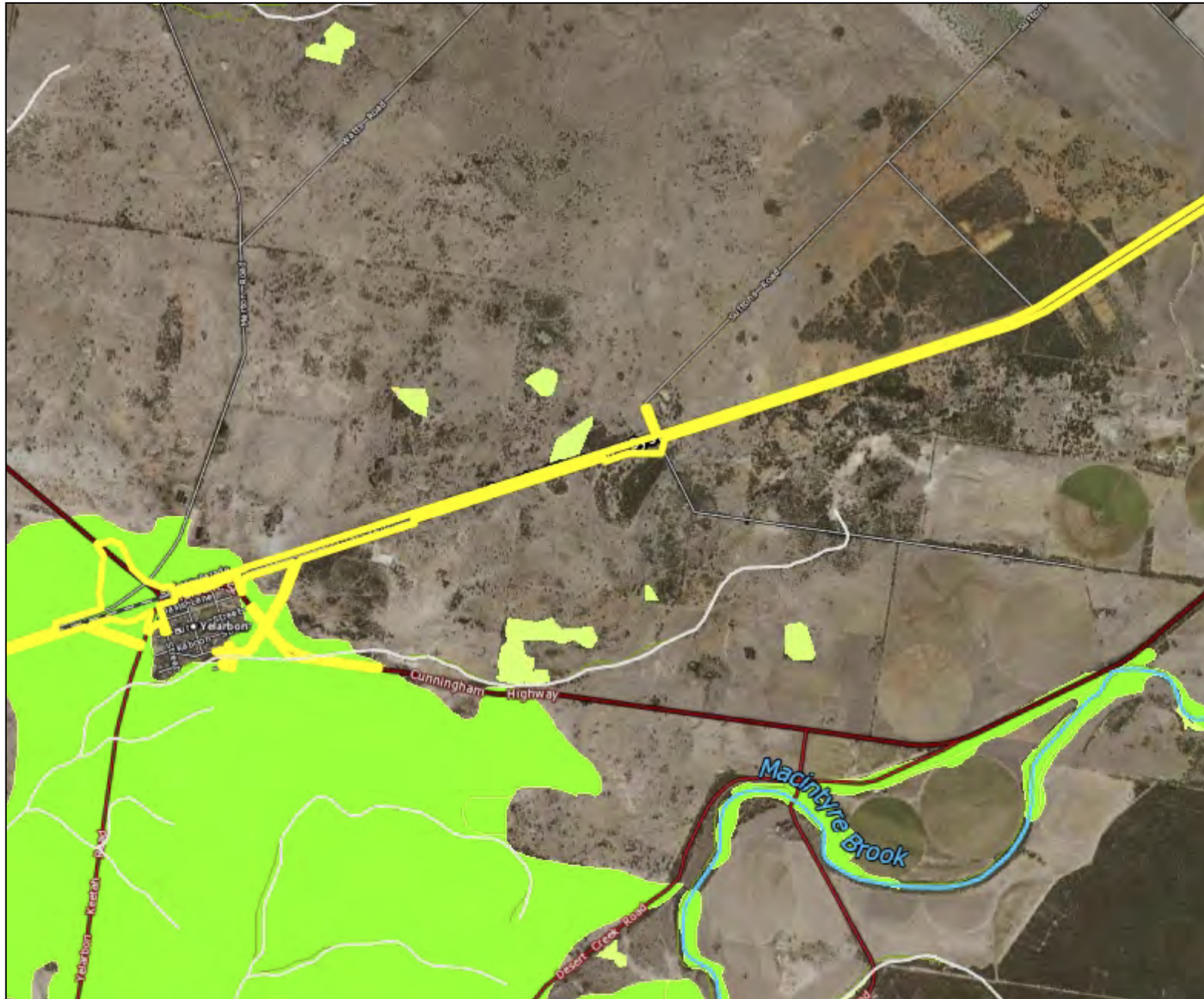
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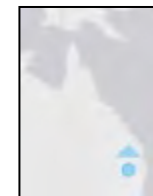
28°31'44"S 150°44'16"E

28°31'44"S 150°50'19"E



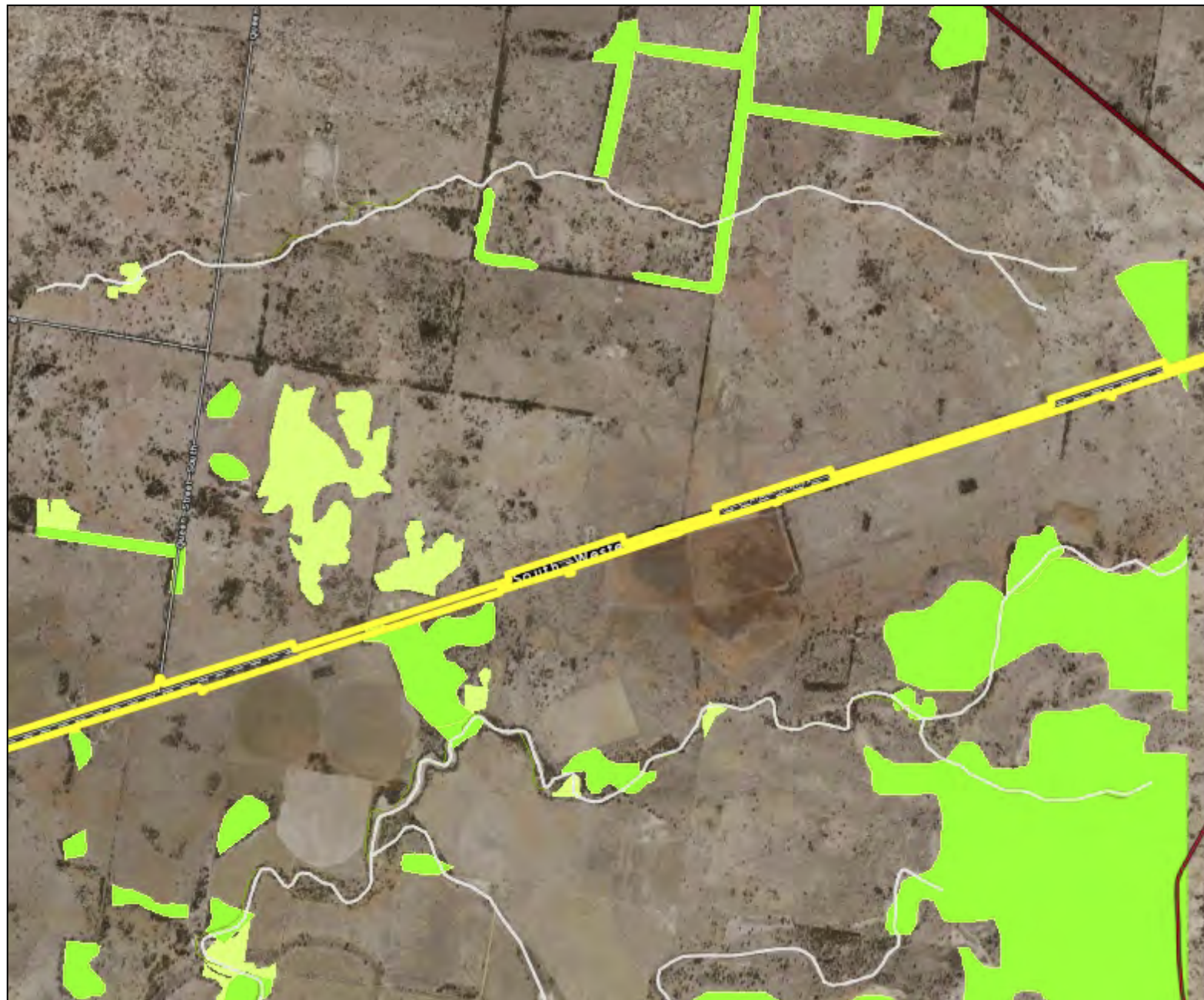
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28°36'7"S 150°50'19"E

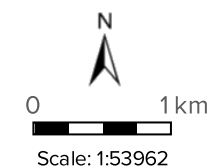


28°33'0"S 150°38'18"E

28°33'0"S 150°44'22"E



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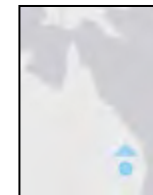
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28°37'23"S 150°38'18"E

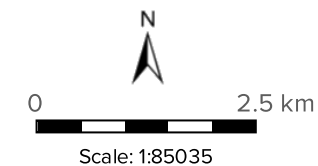
28°37'23"S 150°44'22"E

28°32'22"S 150°28'48"E

28°32'22"S 150°38'20"E



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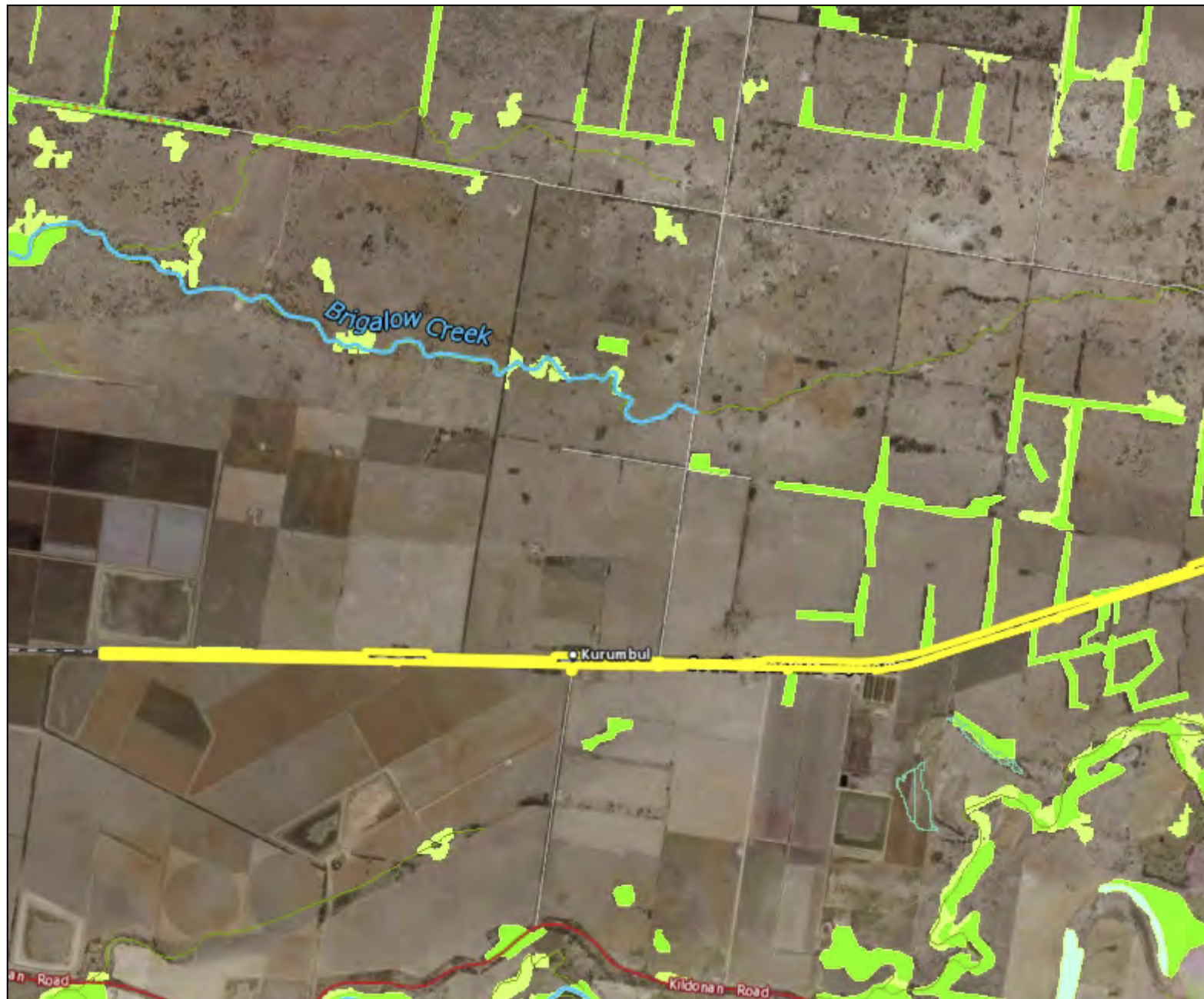
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28°39'17"S 150°28'48"E

28°39'17"S 150°38'20"E





Legend

B2G
K_IR_3100000_D_CIV_PL_PER_DISTURBANCE_FOOTPRINT_RevF.KMZ - poly



Instream structure



Fish habitat area



Management A boundary



Management B boundary

MSES protected area [estates]



MSES protected area [nature refuges]



MSES marine park [highly protected]



MSES declared fish habitat area [A and B areas]



MSES legally secured offset area [offset register]

MSES regulated
watercourse [defined watercourse]



MSES declared high ecological value waters [watercourse]



MSES declared high ecological value waters [wetland]



MSES high ecological significance wetlands



MSES strategic environmental area [designated precinct]



MSES wildlife habitat [threatened and special least concern animal]



MSES regulated
vegetation [100m from wetland]



Wetlands of high ecological significance



Spring [defined by Water Act 2000]



Lake [defined by Water Act 2000]



Downstream limit [defined by Water Act 2000]



Watercourse [defined by Water Act 2000]



Drainage feature [defined by Water Act 2000]



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MSES legally secured offset area
[vegetation offsets]



MSES regulated
vegetation [category B -
endangered or of
concern]



MSES regulated
vegetation [category C-
endangered or of
concern]



MSES regulated
vegetation [category R-
GBR riverine]



MSES regulated
vegetation [essential
habitat]



Road

 Highway

 Main

 Local

 Private

Railway

 Cities and Towns



Viewer Map



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS

1:72,224

0 1.25 2.5 km

Legend

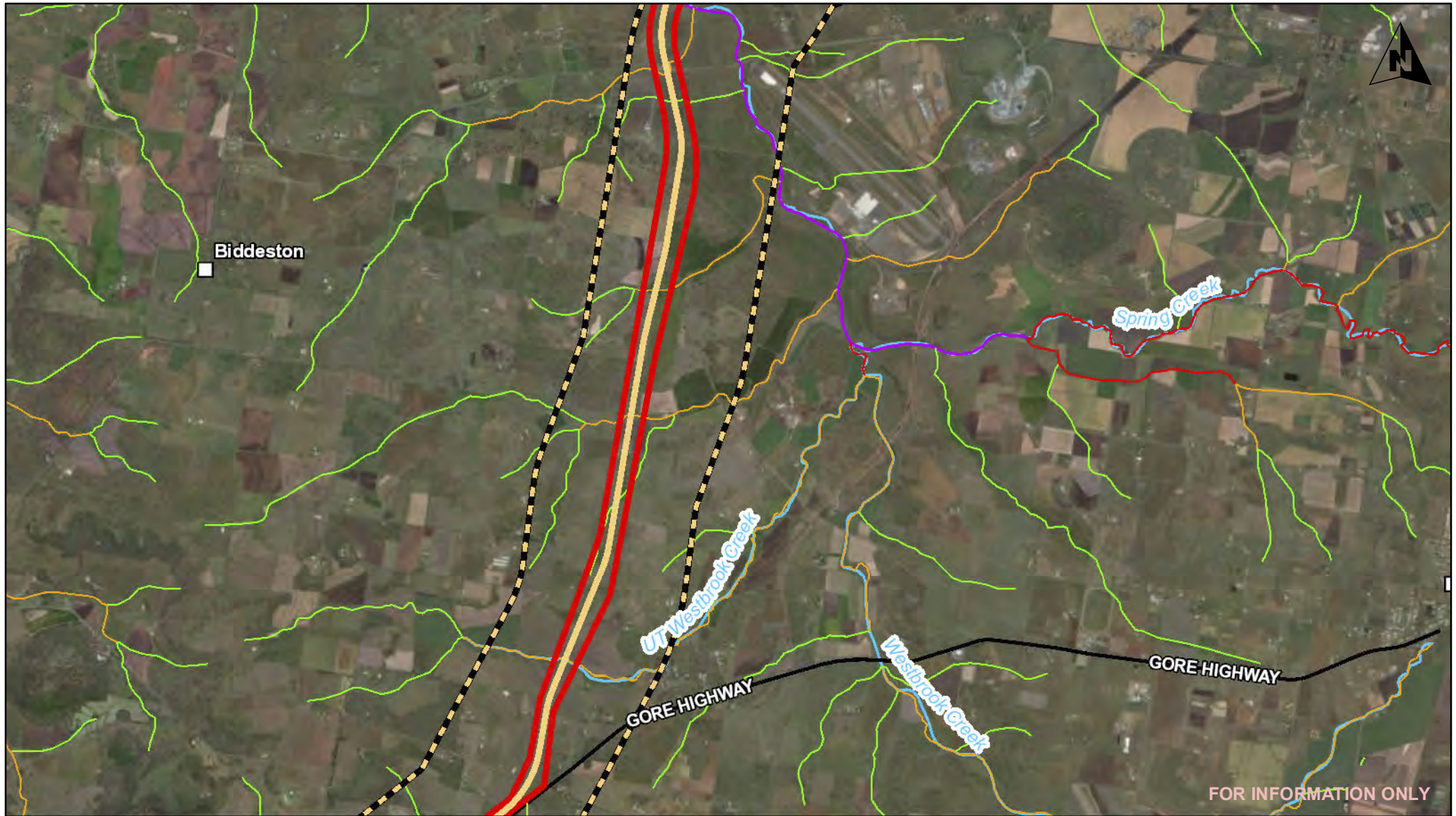
- North Star to Border alignment centreline
- North Star to Border IAS Investigation Corridor
- Border to Gowrie alignment centreline
- Border to Gowrie Focused Area of Investigation

- Border to Gowrie IAS Investigation Corridor
- Gowrie to Helidon alignment centreline
- Gowrie to Helidon IAS Investigation Corridor
- Helidon to Calvert alignment centreline

- Helidon to Calvert IAS Investigation Corridor
- Calvert to Kagaru alignment centreline
- Calvert to Kagaru IAS Investigation Corridor
- Towns

Printed by: arggis
on August 12, 2019

Viewer Map



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS

1:72,224

0 1.25 2.5 km

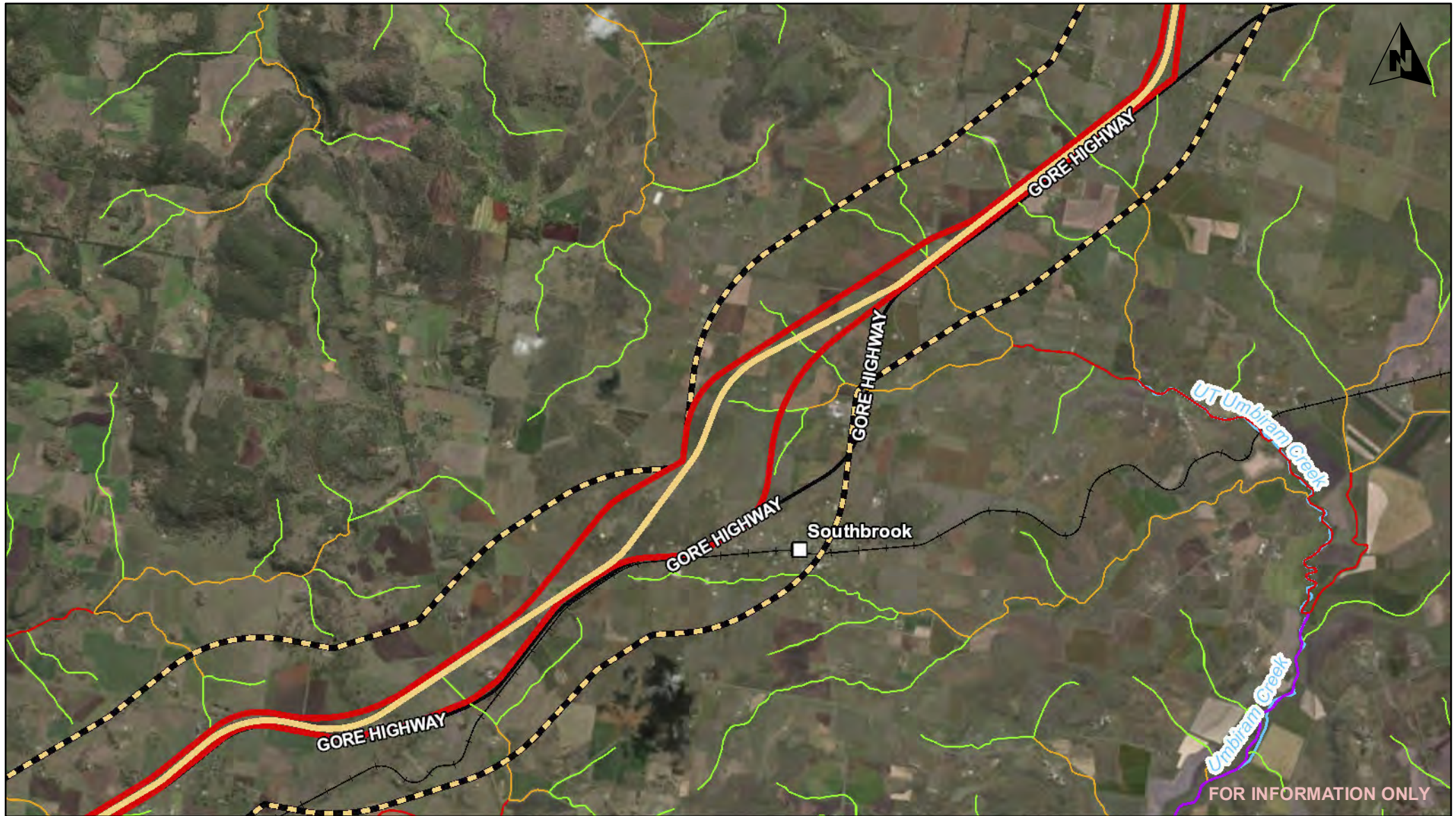
Legend

- North Star to Border alignment centreline
- North Star to Border IAS Investigation Corridor
- Border to Gowrie alignment centreline
- Border to Gowrie Focused Area of Investigation

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- Towns

Viewer Map



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS

1:72,224

0 1.25 2.5 km

Legend

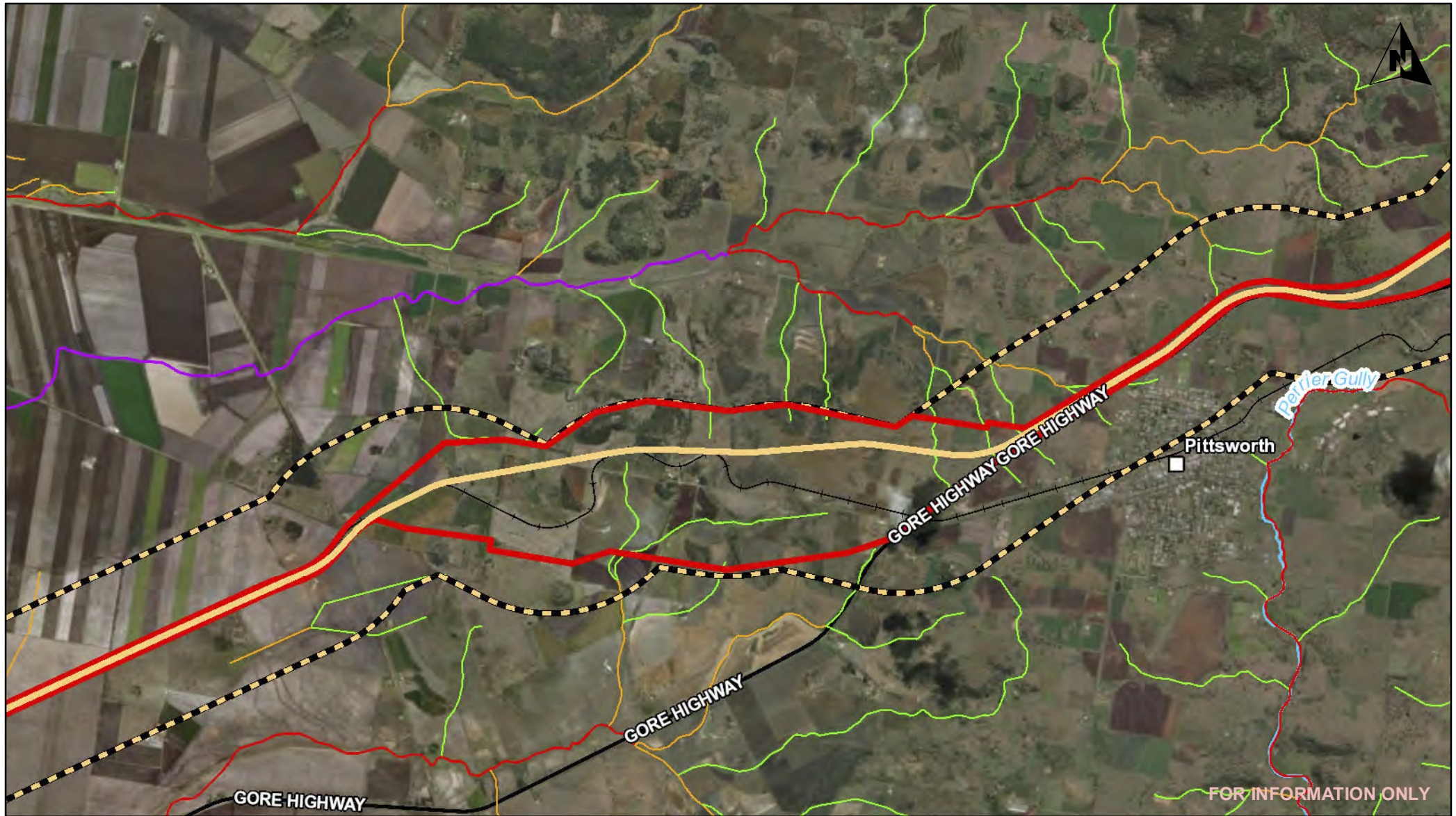
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Printed by: argis
on August 12, 2019

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Legend

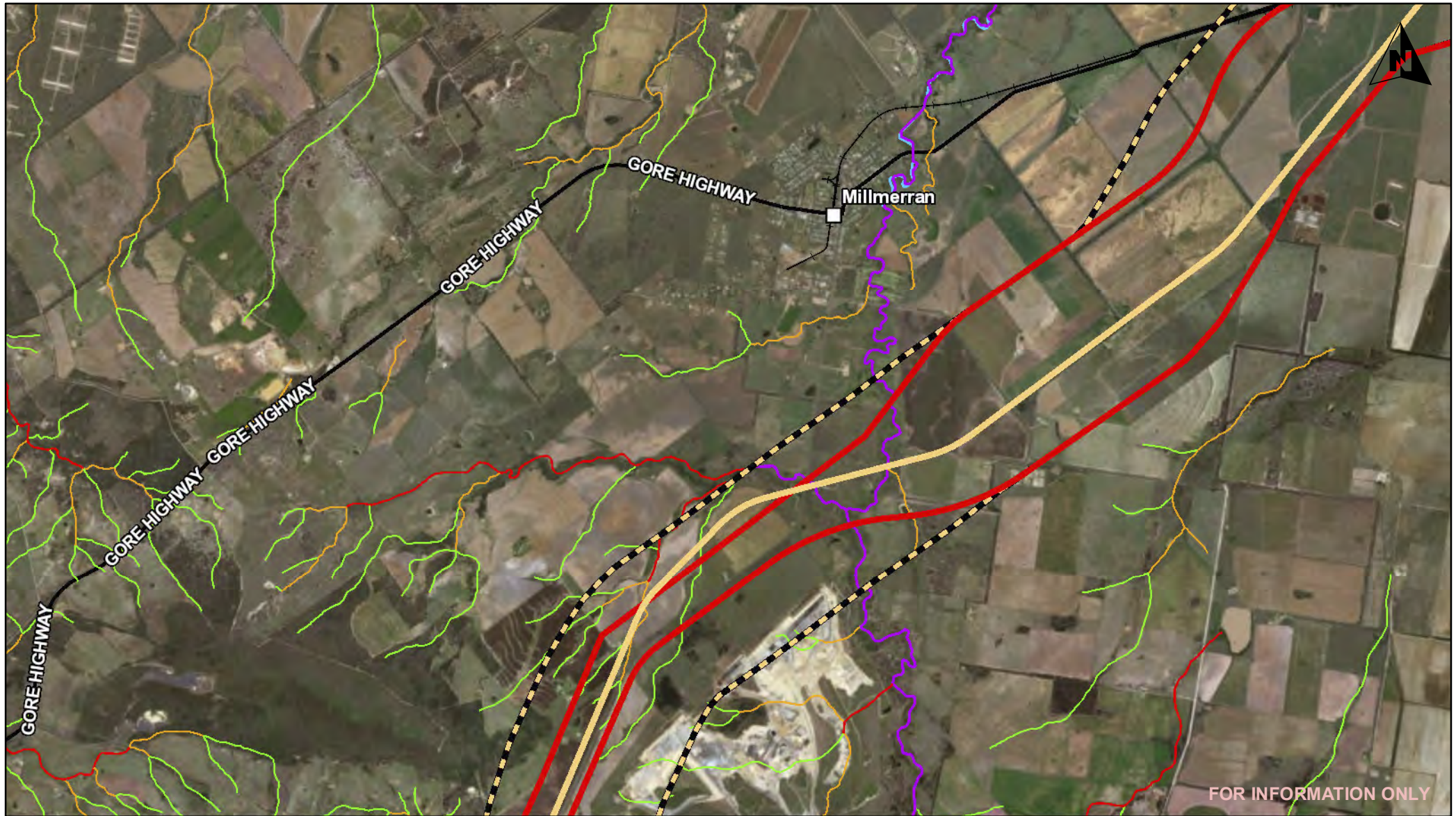
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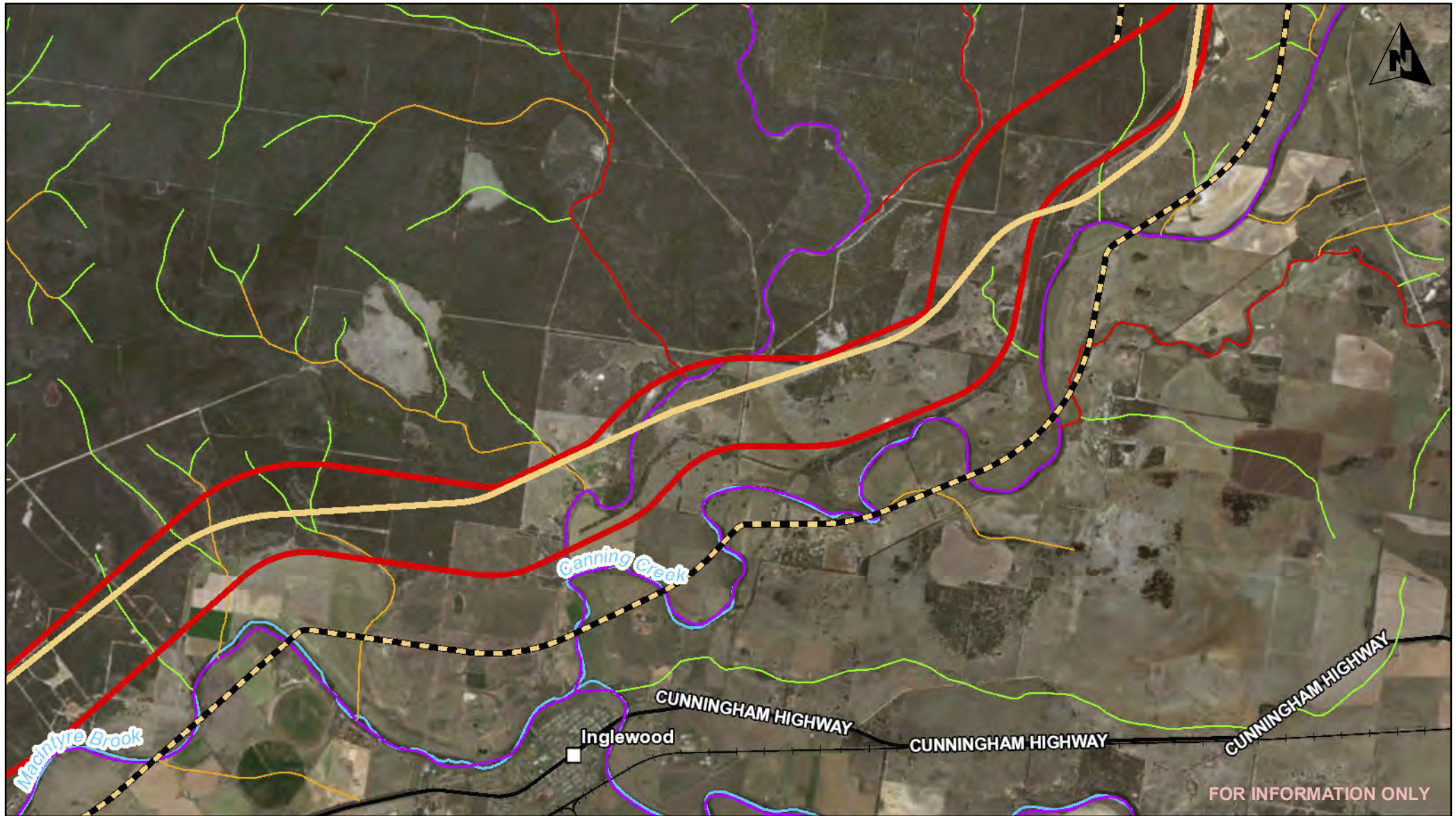
Calvert to Kagaru alignment centreline

Calvert to Kagaru IAS Investigation Corridor

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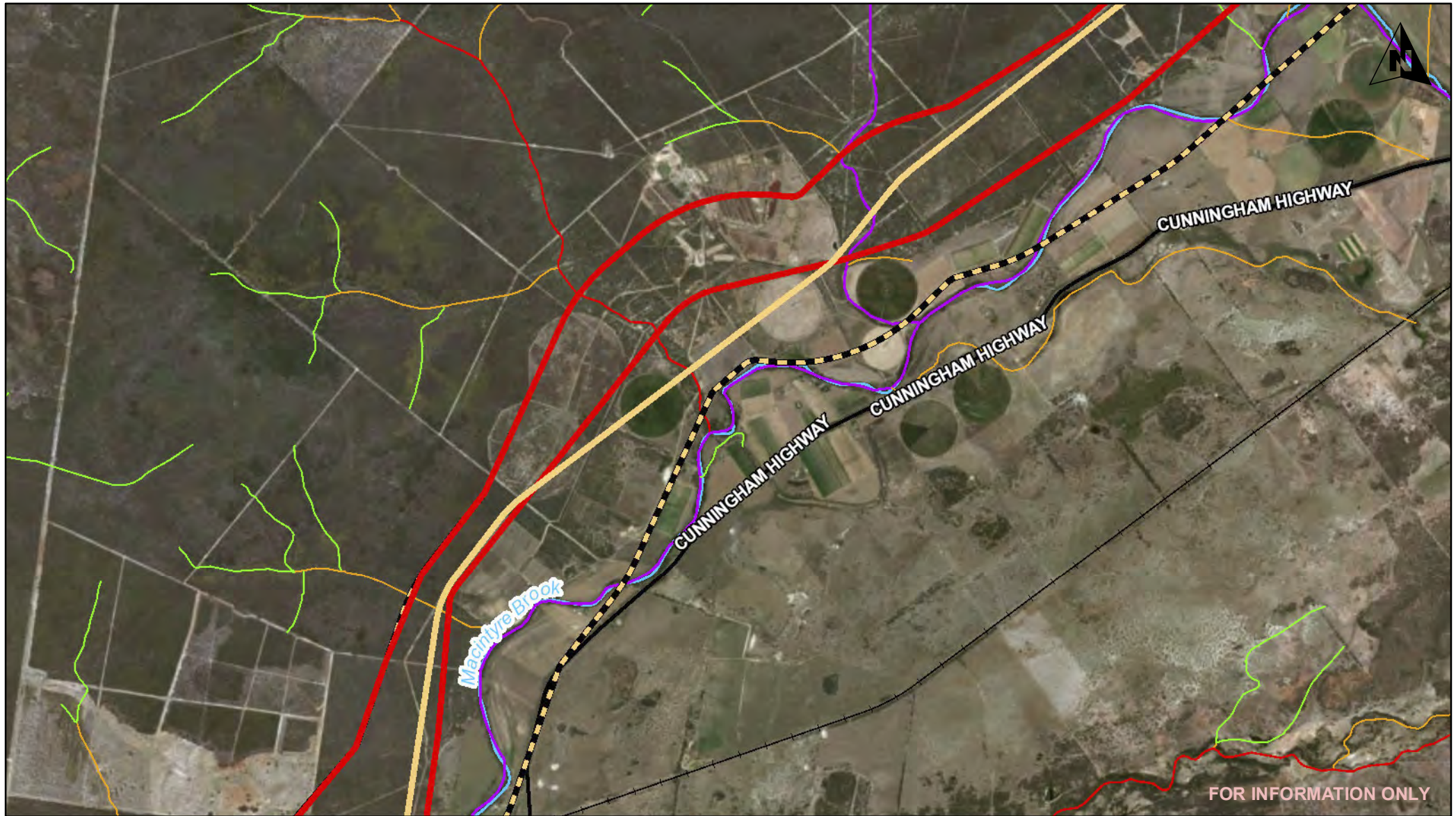
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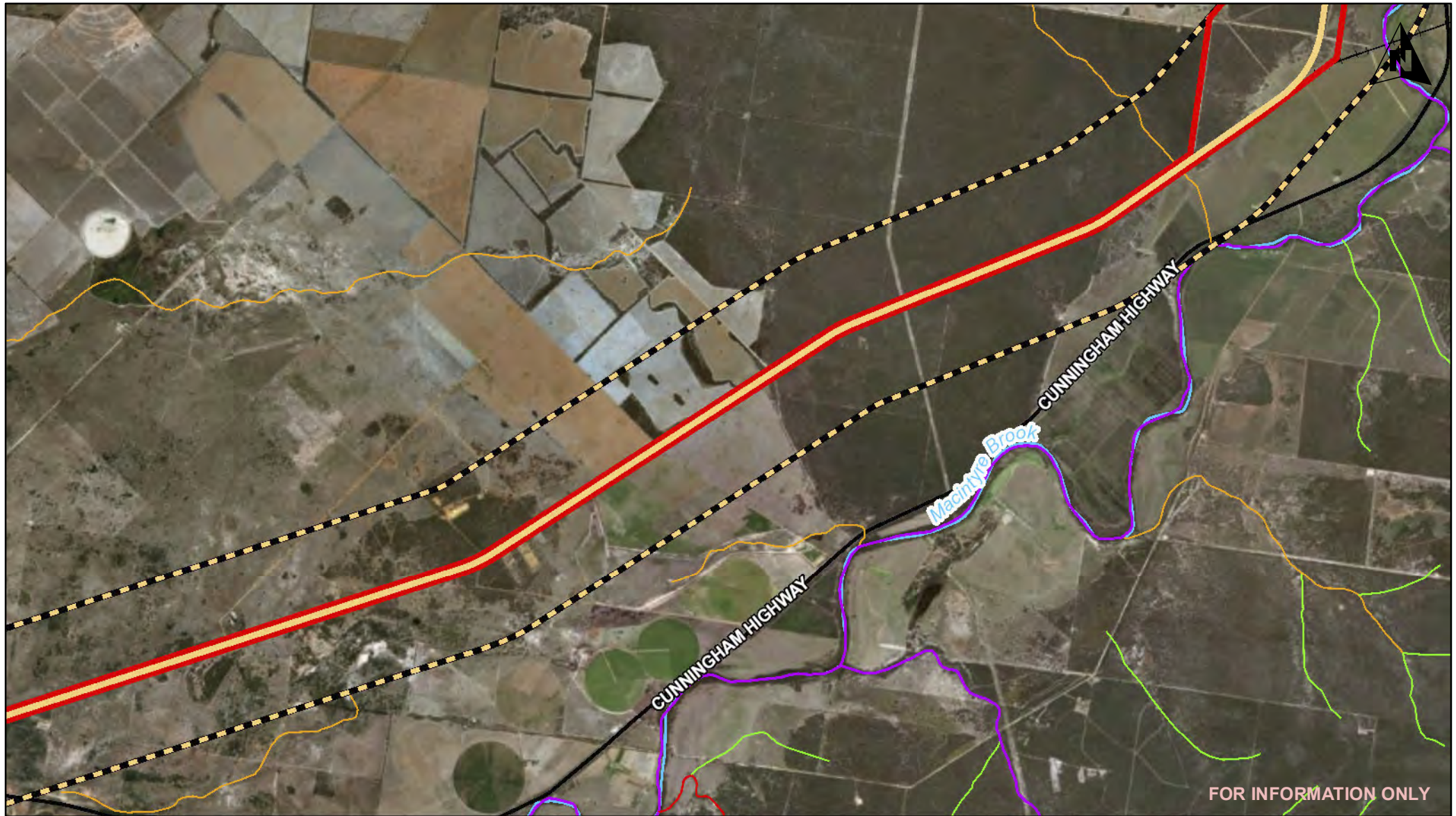
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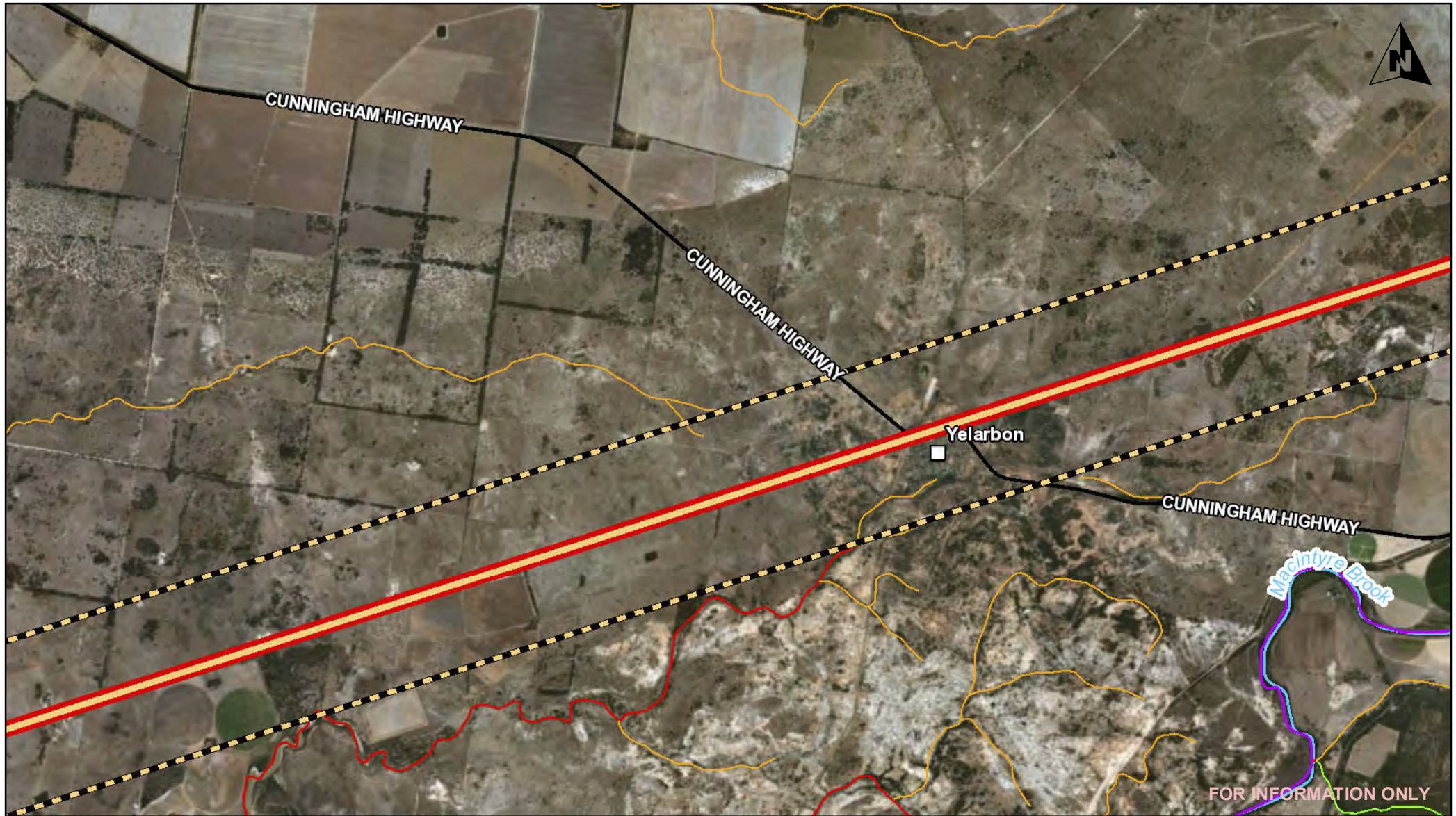
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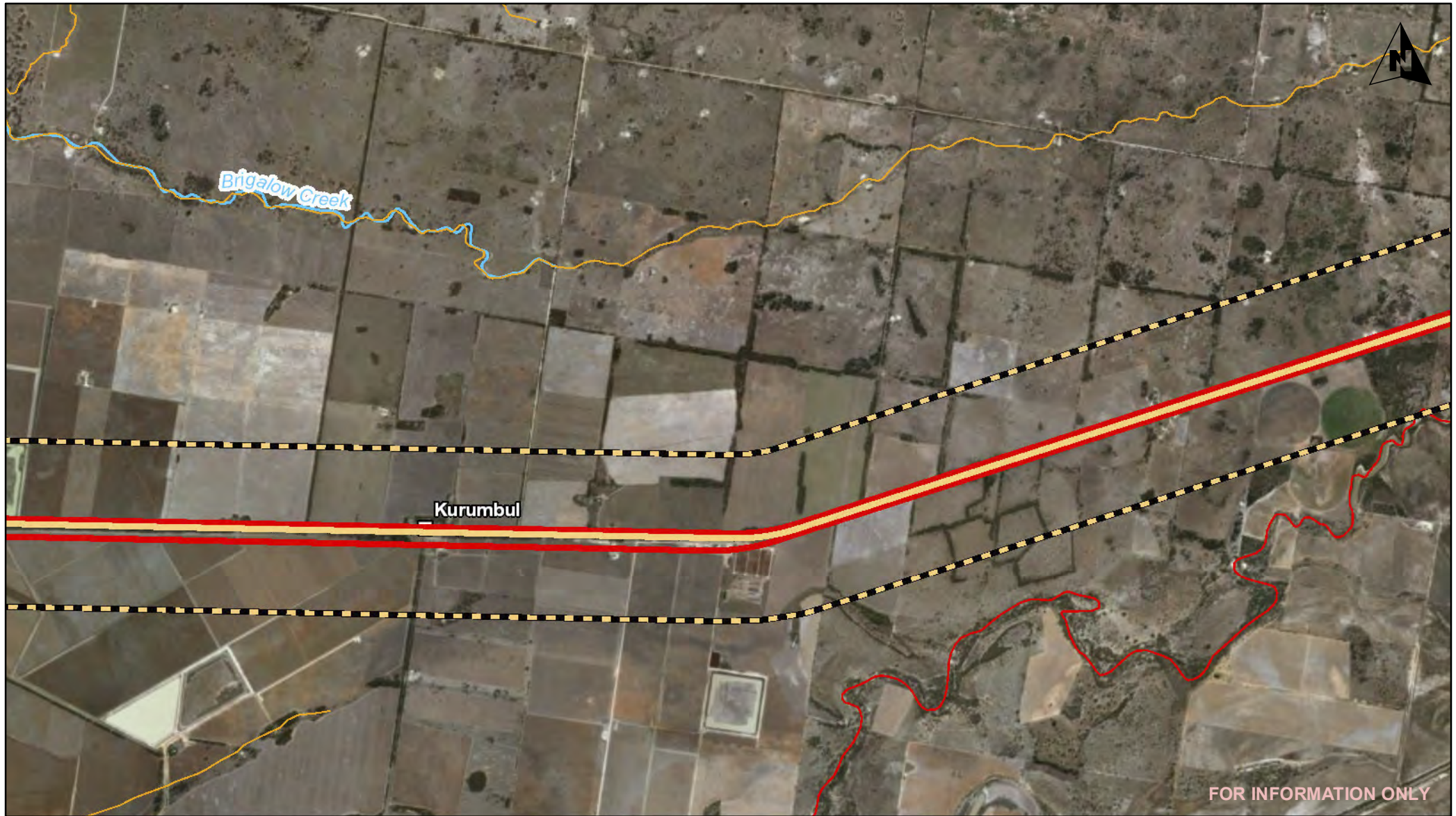
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Towns

Printed by: argis
on August 12, 2019

8/12/2019

422347B rs (po)

QLD DNRME

HYSITREP - Site Summary Report
422347B - North Condamine River at P

SITE DESCRIPTION

Site: 422347B N Condamine_R Pampas
Site Name: North Condamine River at Pampas
Commence: 25/03/1988
Cease:
Map: 9142
Local Map Reference: 447259
Grid Ref: Zone: 56 Easting: 344761.900 Northing: 6925783.400
Grid Datum: MGA94 Map Grid of Australia 1994
Latitude: -27.783418000 27°47'00.3"S
Longitude: 151.424392000 151°25'27.8"E
Lat/Long Datum: GDA94Geodetic Datum of Australia 1994
Elevation: 383.000
Comment: Lat/Long & EL entry updated to GDA 94 from GoogleEarth.
(original coordinates were 27 46 56.3 S, 151 25 26.7 E A

STATION DESCRIPTION

Stream Distance: 88.000 km from station to mouth
Zero Gauge: 379.000
Datum: AHD Aust. Height Datum
Control: Culvert

CTF Level: 1.075
Max Gauged Stage: 2.805
Max Gauge Date: 31/03/2014
D'stream from Dam: False
Min Peak Discharge: 5.000
Time between Peaks: 1440 Mins
Catchment Area: 378.000

RATING TABLES

Var From	Var To	Start Date	Start Time	Si
100.00 Level (Metres)	140 Discharge (Cumecs)	25/03/1988	11:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	07/02/1990	13:55	42
100.00 Level (Metres)	140 Discharge (Cumecs)	09/02/1991	06:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	01/03/1994	08:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	20/11/1995	19:15	42
100.00 Level (Metres)	140 Discharge (Cumecs)	03/05/1996	04:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	20/11/1996	00:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	06/08/1998	16:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	28/11/1998	07:20	42
100.00 Level (Metres)	140 Discharge (Cumecs)	13/09/2000	09:32	UN
100.00 Level (Metres)	140 Discharge (Cumecs)	14/06/2002	00:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	04/01/2006	00:00	42
100.00 Level (Metres)	140 Discharge (Cumecs)	20/05/2008	03:50	42
100.00 Level (Metres)	140 Discharge (Cumecs)	20/05/2008	23:50	42

TIME-BASED TABLES

Var	Interp	Extend	Date	Va
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8/12/2019

416402C rs (po)

QLD DNRME

HYSITREP - Site Summary Report
416402C - Macintyre Brook at Inglewood

SITE DESCRIPTION

Site: 416402C Mac_Brook Inglewood
Site Name: Macintyre Brook at Inglewood
Commence: 3/02/1981
Cease:
Map: 9141
Local Map Reference: 109549
Grid Ref: Zone: 56 Easting: 310900.000 Northing: 6854958.000
Grid Datum: MGA94 Map Grid of Australia 1994
Latitude: -28.418061110 28°25'05.0"S
Longitude: 151.069441670 151°04'10.0"E
Lat/Long Datum: GDA94 Geodetic Datum of Australia 1994
Elevation: 277.000
Comment: Lat/Long & EL entry updated to GDA 94 from GPS download
(original coordinates were 28 25 05.0218 S, 151 04 09.99

STATION DESCRIPTION

Stream Distance: 55.200 km from station to mouth
Zero Gauge: 270.223
Datum: AHD Aust. Height Datum
Control: Culvert

CTF Level: 0.370
Max Gauged Stage: 9.153
Max Gauge Date: 12/04/1988
D'stream from Dam: False
Min Peak Discharge: 20.000
Time between Peaks: 1440 Mins
Catchment Area: 3430.000

RATING TABLES

Var From	Var To	Start Date	Start Time	Si
100.00 Level (Metres)	140 Discharge (Cumecs)	03/02/1981	11:30	41
100.00 Level (Metres)	140 Discharge (Cumecs)	06/04/1981	13:01	41
100.00 Level (Metres)	140 Discharge (Cumecs)	01/06/1981	18:01	41
100.00 Level (Metres)	140 Discharge (Cumecs)	12/06/1981	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	12/09/1981	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	22/01/1982	17:31	41
100.00 Level (Metres)	140 Discharge (Cumecs)	13/03/1982	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	02/07/1982	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	10/09/1982	15:31	41
100.00 Level (Metres)	140 Discharge (Cumecs)	24/01/1983	18:01	41
100.00 Level (Metres)	140 Discharge (Cumecs)	26/04/1983	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	01/07/1984	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	28/07/1984	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	10/10/1984	09:01	41
100.00 Level (Metres)	140 Discharge (Cumecs)	20/02/1985	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	26/02/1985	13:01	41
100.00 Level (Metres)	140 Discharge (Cumecs)	29/03/1985	00:00	41

8/12/2019

416415A rs (po)

QLD DNRME

HYSITREP - Site Summary Report
416415A - Macintyre Brook at Booba S

SITE DESCRIPTION

Site: 416415A Booba Sands
Site Name: Macintyre Brook at Booba Sands
Commence: 17/02/1987
Cease:
Map: 9040
Local Map Reference: 892372
Grid Ref: Zone: 56 Easting: 289267.700 Northing: 6837575.100
Grid Datum: MGA94 Map Grid of Australia 1994
Latitude: -28.571550000 28°34'17.6"S
Longitude: 150.845533330 150°50'43.9"E
Lat/Long Datum: GDA94Geodetic Datum of Australia 1994
Elevation: 220.000
Comment: Lat/Long & EL entry updated to GDA 94 from GPS download
(original coordinates were 28 34 30.0095 S, 150 50 40.99

STATION DESCRIPTION

Stream Distance: 15.900 km from station to mouth
Zero Gauge: 242.756
Datum: AHD Aust. Height Datum
Control: Culvert

CTF Level: 0.350
Max Gauged Stage: 8.550
Max Gauge Date: 13/04/1988
D'stream from Dam: False
Min Peak Discharge: 20.000
Time between Peaks: 1440 Mins
Bed Slope: 0.00063
Catchment Area: 4092.000

RATING TABLES

Var	Var	Start	Start	
From	To	Date	Time	Si
100.00 Level (Metres)	140 Discharge (Cumecs)	17/02/1987	12:20	41
100.00 Level (Metres)	140 Discharge (Cumecs)	17/03/1988	12:01	41
100.00 Level (Metres)	140 Discharge (Cumecs)	16/12/1989	11:20	41
100.00 Level (Metres)	140 Discharge (Cumecs)	11/02/1990	05:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	22/04/1990	03:15	41
100.00 Level (Metres)	140 Discharge (Cumecs)	10/07/1992	00:00	41
100.00 Level (Metres)	140 Discharge (Cumecs)	02/06/1993	10:15	41

TIME-BASED TABLES

Var	Interp	Extend	Date	Va
998.00 Catch. Area (Sq Km)	No	Yes	01/01/1850 00:00	4092.
998.00 Catch. Area (Sq Km)	No	Yes	01/01/1999 00:00	4092.
1130.00 AHD Adjust	No	Yes	01/01/1900 00:00	242.

GAUGINGS

Var	Var	Gauge
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Climate statistics for Australian locations

Monthly climate statistics

All years of record

Site information

Site name: TEXAS POST OFFICE
Site number: 041100
Latitude: 28.85 °S **Longitude:** 151.17 °E
Elevation: 295 m
Commenced: 1897 **Status:** Open
Latest available data: 07 Aug 2019

Additional information

[Additional site information](#)

Nearest alternative sites

1. 041341 INGLEWOOD TOBACCO RES (45.3km)
2. 041097 INGLEWOOD FOREST (57.9km)
3. 054104 PINDARI DAM (59.7km)



View: ☒ Main statistics ☐ All available **Period:** Use all years of data **Text size:** ☒ Normal ☐ Large

Statistics	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years
Temperature														
Mean maximum temperature (°C)	33.9	32.7	31.2	27.5	23.0	19.4	18.8	20.9	24.5	28.0	30.5	32.8	26.9	49 1969 2019
Mean minimum temperature (°C)	18.7	18.3	16.1	11.9	8.0	4.7	3.7	4.5	7.9	11.8	15.0	17.3	11.5	49 1969 2019
Rainfall														
Mean rainfall (mm)	88.8	74.7	56.6	34.1	38.9	40.6	41.0	33.8	39.8	60.9	67.3	80.5	657.9	128 1881 2019
Decile 5 (median) rainfall (mm)	71.8	61.6	42.2	25.2	30.2	31.1	33.3	27.5	34.1	48.8	60.2	76.2	664.0	122 1881 2019
Mean number of days of rain ≥ 1 mm	5.6	4.8	4.1	2.6	3.2	4.0	4.1	3.8	3.8	5.0	5.5	6.2	52.7	122 1897 2019
Other daily elements														
Mean daily sunshine (hours)														
Mean number of clear days	7.8	6.6	10.9	11.6	11.0	11.4	13.5	13.6	13.2	11.4	8.5	8.6	128.1	35 1969 2010
Mean number of cloudy days	6.9	7.1	4.6	3.7	5.2	5.6	6.1	5.1	4.7	6.0	7.0	6.3	68.3	35 1969 2010
9 am conditions														
Mean 9am temperature (°C)	26.0	25.1	23.3	19.3	14.4	10.2	9.5	11.9	16.6	20.7	23.1	25.3	18.8	40 1969 2010
Mean 9am relative humidity (%)	57	61	60	64	72	79	78	66	59	54	55	55	63	23 1986 2010
Mean 9am wind speed (km/h)	9.0	9.0	8.7	8.6	8.5	8.5	8.7	8.9	9.2	10.2	9.7	9.7	9.1	33 1969 2010
3 pm conditions														
Mean 3pm temperature (°C)	31.9	30.9	29.8	26.2	21.7	18.1	17.7	19.8	23.3	26.2	28.7	31.1	25.5	35 1969 2010
Mean 3pm relative humidity (%)	39	42	36	36	42	47	44	35	34	34	37	36	38	19 1986 2010
Mean 3pm wind speed (km/h)	11.9	11.1	11.2	10.9	11.4	11.4	11.4	13.7	13.8	13.1	12.4	12.4	12.1	28 1969 2010

red = highest value blue = lowest value

Product IDCJCM0027 Prepared at Thu 08 Aug 2019 02:54:42 AM EST

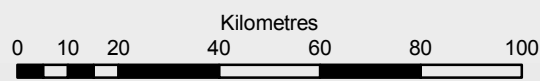
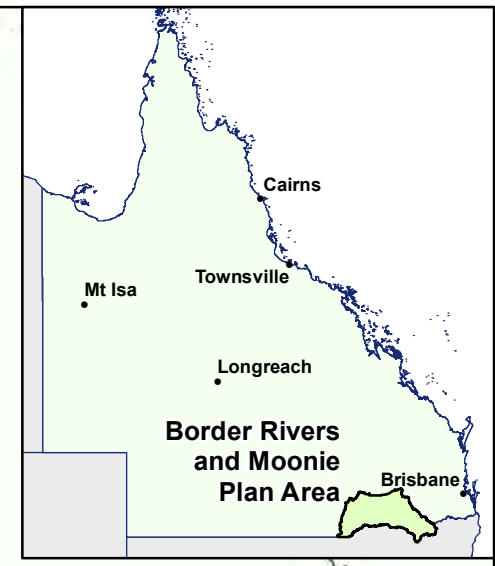
Monthly statistics are only included if there are more than 10 years of data. The number of years (provided in the 2nd last column of the table) may differ between elements if the observing program at the site changed. More detailed data for individual sites can be obtained by contacting the Bureau.

Related Links

- This page URL: http://www.bom.gov.au/climate/averages/tables/cw_041100.shtml
- About climate averages: <http://www.bom.gov.au/climate/cdo/about/about-stats.shtml>
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Aquatic GDE

- Known GDE (regional study)
- High potential GDE (regional study)
- Moderate potential GDE (regional study)
- Low potential GDE (regional study)
- Unclassified potential GDE (regional study)
- High potential GDE (national assessment)
- Moderate potential GDE (national assessment)
- Low potential GDE (national assessment)
- Unclassified potential GDE (national assessment)



1:1,588,452

Kilometres 25 50

Data Source: Bureau of Meteorology, Geoscience Australia and State/Territory lead water agencies. Refer to metadata for further information: [Click here](#)

Australian Albers GDA94



Terrestrial GDE (no data)



No ecosystems analysed

Terrestrial GDE



Known GDE
(regional study)



High potential GDE
(regional study)



Moderate potential GDE
(regional study)



Low potential GDE
(regional study)



Unclassified potential GDE
(regional study)



High potential GDE
(national assessment)



Moderate potential GDE
(national assessment)



Low potential GDE
(national assessment)



Unclassified potential GDE
(national assessment)



1:1,588,452

Kilometres 25 50

Data Source: Bureau of Meteorology, Geoscience Australia and State/Territory lead water agencies. Refer to metadata for further information: [Click here](#)

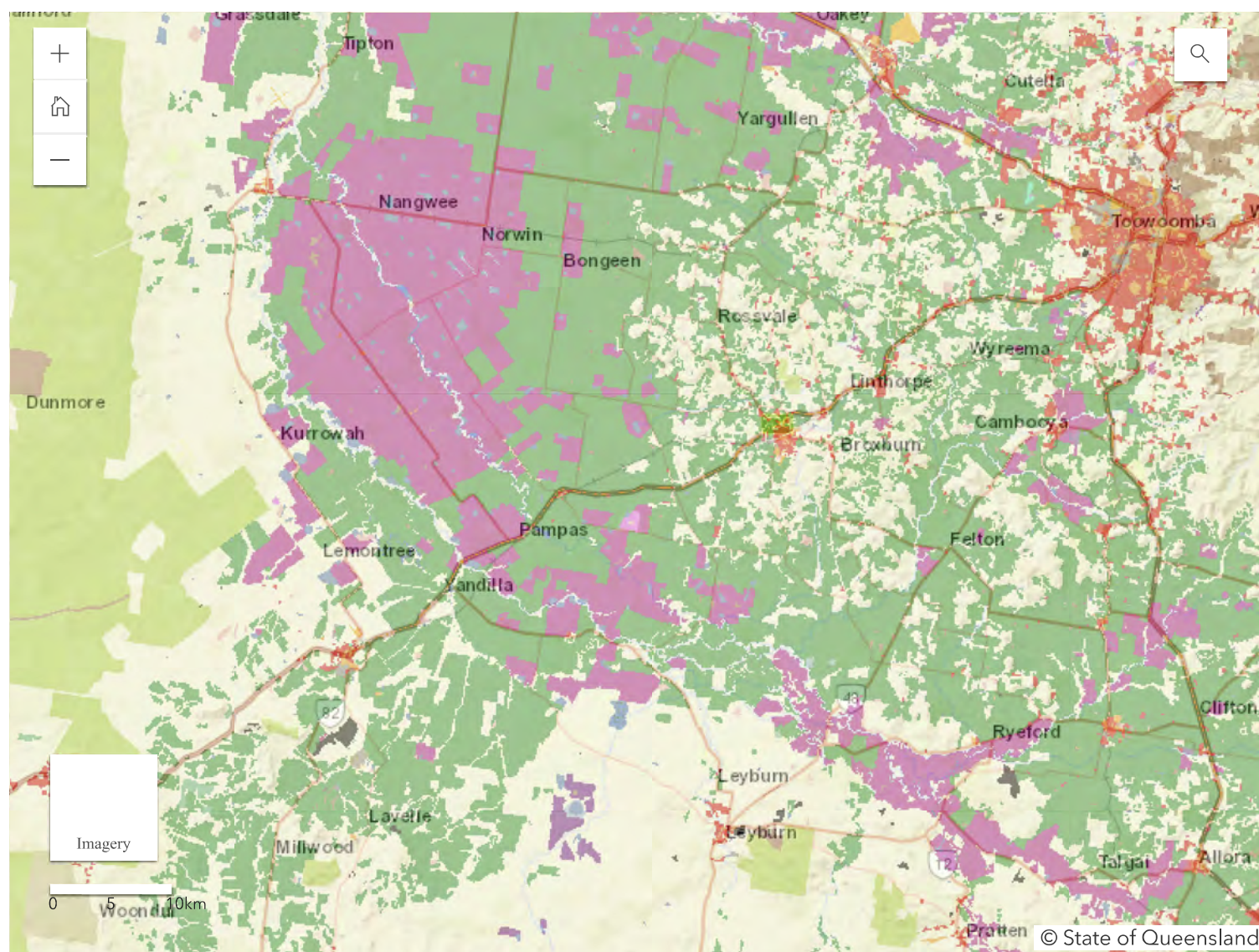
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State-wide land use map

The map below presents the current state-wide land use layer for Queensland.

Use the tools provided to interact with the map (zoom in/out and pan), search for your place of interest, toggle between different basemaps and query the land use dataset by selecting a location.



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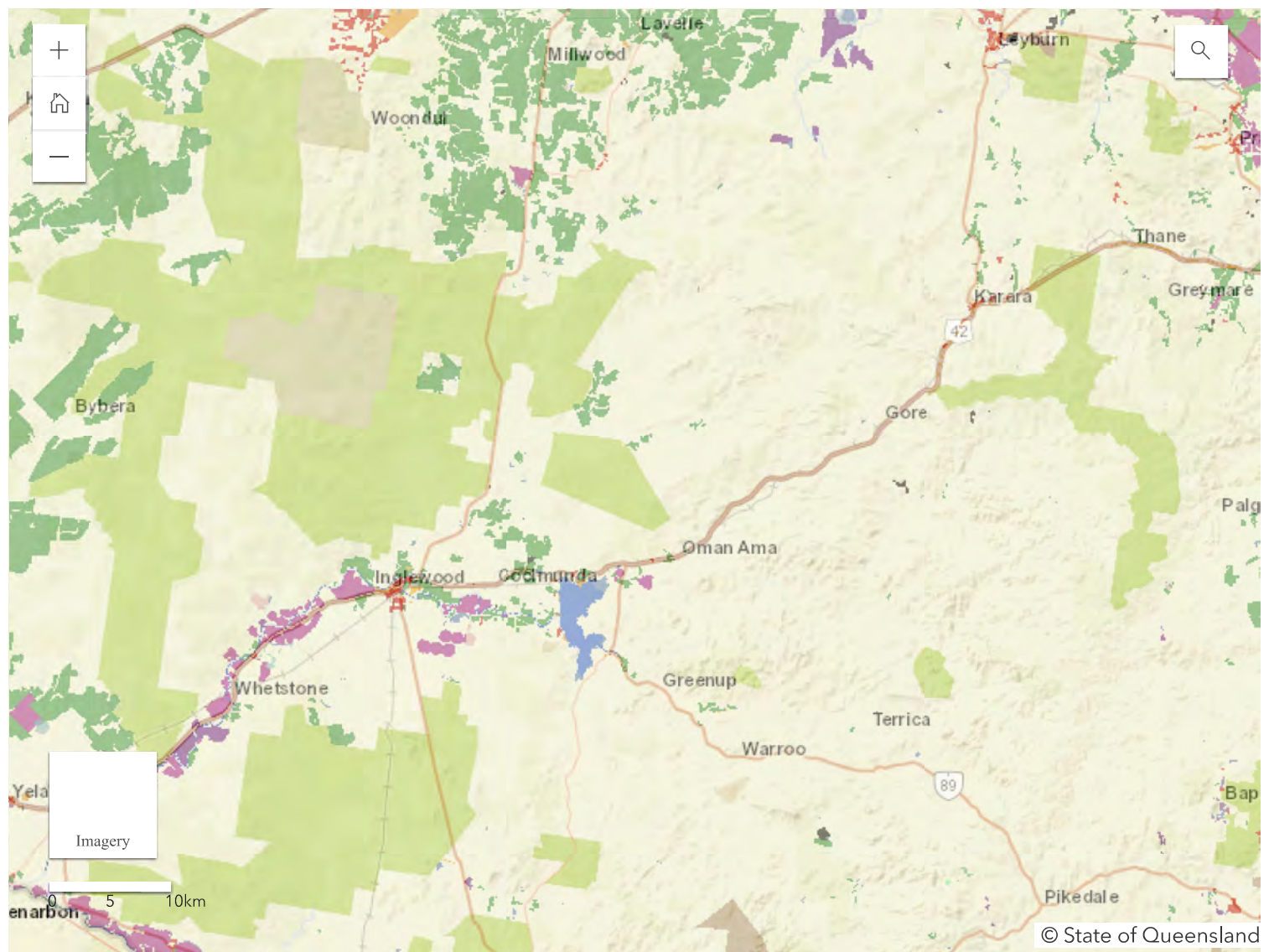
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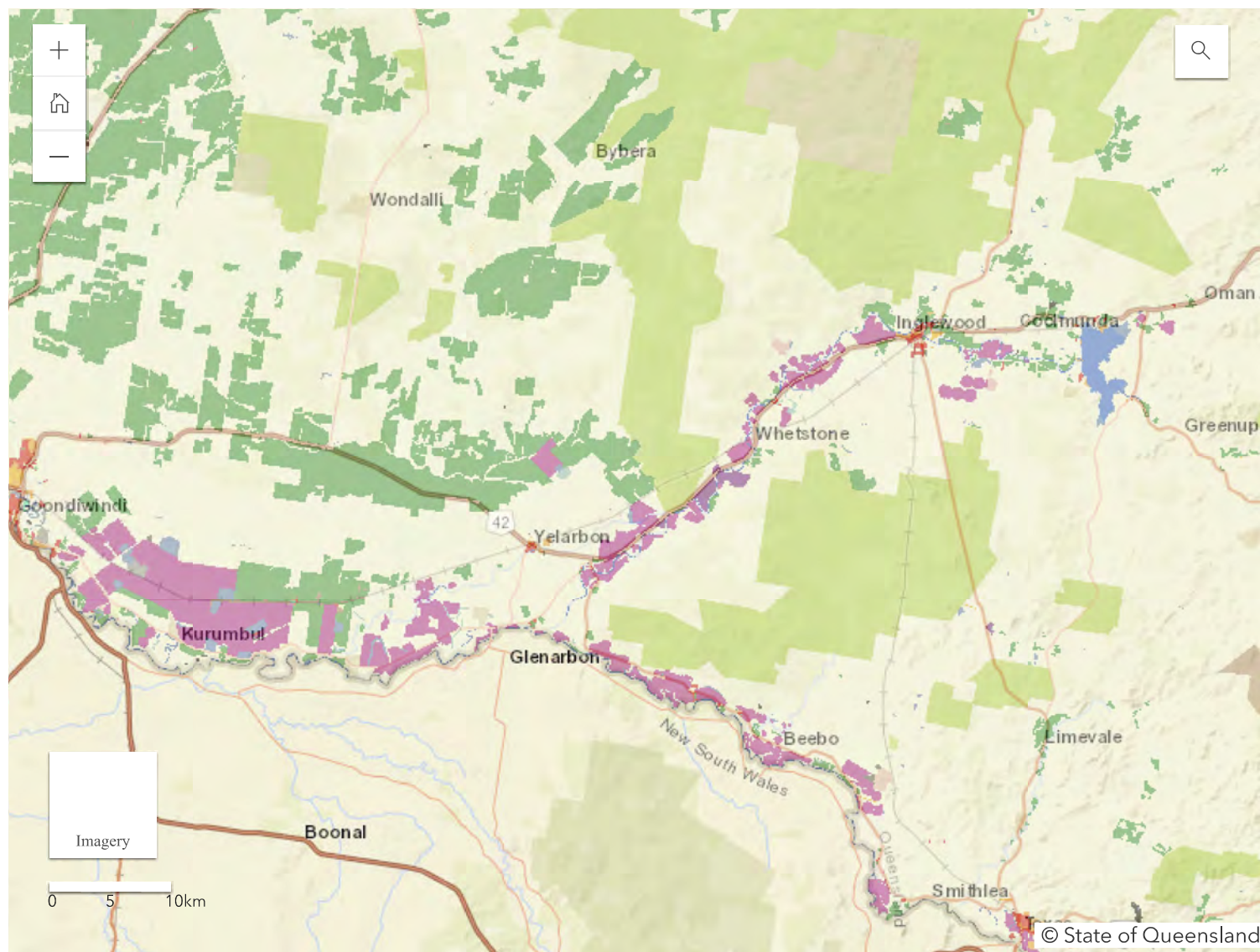
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RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
3149	A341582	179381	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
3149	A341582	47764R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	322		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
3149	A341582	47765R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	220		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
3149	A341582	51770R	IWA	Repealed		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	0		Balonne-Condamine Basin	Irrigation	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
14	A342420	56079R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	14/A342420	14/A342420
14	A342420	56079R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	14/A342420	14/A342420
14	A342420	66425R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	14/A342420	14/A342420
14	A342420	66425R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	14/A342420	14/A342420
863	A34637	16672R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	104		Balonne-Condamine Basin	Irrigation	863/A34637	863/A34637
863	A34637	16672R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	104		Balonne-Condamine Basin	Irrigation	863/A34637	863/A34637
863	A34637	48492R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	863/A34637	863/A34637
863	A34637	48492R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	863/A34637	863/A34637
1495	A34822	61301R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	172		Balonne-Condamine Basin	Irrigation; Stock	1495/A34822	1495/A34822; 2/RP50027
1495	A34822	61301R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	172		Balonne-Condamine Basin	Irrigation; Stock	1495/A34822	1495/A34822; 2/RP50027
1495	A34822	61302R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	172		Balonne-Condamine Basin	Irrigation	1495/A34822	1495/A34822; 2/RP50027
1495	A34822	61302R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	172		Balonne-Condamine Basin	Irrigation	1495/A34822	1495/A34822; 2/RP50027
43	AG109	188081	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	43/AG109	43/AG109
43	AG109	188081	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	43/AG109	43/AG109
43	AG109	47719R	LTW	Cancelled		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	192/RP851013; 43/AG109	192/RP851013; 43/AG109
43	AG109	47719R	LTW	Cancelled		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	192/RP851013; 43/AG109	192/RP851013; 43/AG109
43	AG109	47720R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	43/AG109	43/AG109
43	AG109	47720R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	43/AG109	43/AG109
43	AG109	47800R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Waterharvesting	43/AG109	43/AG109
43	AG109	47800R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Waterharvesting	43/AG109	43/AG109
43	AG109	64941R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBNBG	Toowoomba North Basalts Groundwater	220		Balonne-Condamine Basin	Urban	175/SP198884; 183/AG3925; 184/AG3924; 189/CP835162; 43/AG109; Kingsthorpe	
43	AG109	94001R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	75		Balonne-Condamine Basin	Irrigation	43/AG109	43/AG109
43	AG109	94001R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	75		Balonne-Condamine Basin	Irrigation	43/AG109	43/AG109
44	AG109	190311	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
44	AG109	190311	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
44	AG109	51705R	LTW	Expired		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
44	AG109	51705R	LTW	Expired		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
44	AG109	55905R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
44	AG109	55905R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
44	AG109	64283R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	30		Balonne- Condamine Basin	Irrigation	44/AG109	44/AG109
44	AG109	64283R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	30		Balonne- Condamine Basin	Irrigation	44/AG109	44/AG109
38	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
39	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
40	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
41	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
42	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
43	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
44	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
45	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
46	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
47	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
48	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
49	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
50	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
51	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
52	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
53	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
54	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
55	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
56	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
64	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
65	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
66	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
67	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamin e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
68	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamin e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
69	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condam e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
70	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condam e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
71	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
72	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
73	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
74	AG1199	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
19	AG121	17338R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGO	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	Lot A on RP104667	19/AG121
19	AG121	19071R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	19/AG121	19/AG121
19	AG121	19071R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	19/AG121	19/AG121
19	AG121	31938R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	19/AG121	19/AG121
19	AG121	31938R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	19/AG121	19/AG121
1	AG1803	179381	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP87457	1/AG1803; 2/RP1738; 2/RP87457; 3/RP803554; 3149/A341582
1	AG1803	47764R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	322		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP1738; 2/RP87457; 3/RP803554; 3149/A341582
1	AG1803	47765R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	220		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP1738; 2/RP87457; 3/RP803554; 3149/A341582
1	AG1803	51770R	IWA	Repealed		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	0		Balonne-Condamine Basin	Irrigation	2/RP87457	1/AG1803; 2/RP1738; 2/RP87457; 3/RP803554; 3149/A341582

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5	AG1892	30736R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	5/AG1892	5/AG1892
5	AG1892	30736R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	5/AG1892	5/AG1892
5	AG1892	52538R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	32		Balonne-Condamine Basin	Irrigation	5/AG1892	5/AG1892
5	AG1892	52538R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	32		Balonne-Condamine Basin	Irrigation	5/AG1892	5/AG1892
17	AG1935															
2	AG1950	61619R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	6		Balonne-Condamine Basin	Irrigation	2/AG1950	2/AG1950
2	AG1950	61619R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	6		Balonne-Condamine Basin	Irrigation	2/AG1950	2/AG1950
2	AG2014	400511	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	128		Balonne-Condamine Basin	Any	2/RP49965	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 2/AG2014; 2/RP49965; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105
194	AG2428	05918R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 91/AG83	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83
194	AG2428	05918R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 91/AG83	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83
194	AG2428	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881
194	AG2428	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881
194	AG2428	15819R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
194	AG2428	27179R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 91/AG83	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 156/AG880; 157/AG880; 158/AG880; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
194	AG2428	27179R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 91/AG83	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83
194	AG2428	27180R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 178/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83
194	AG2428	27181R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation; Stock	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
194	AG2428	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
194	AG2428	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
194	AG2428	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	350		Balonne-Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 182/AG881; 194/AG2428; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966
194	AG2428	87270R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	156/AG880; 157/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
194	AG2428	87272R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG880; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
69	AG2572	15819R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
69	AG2572	27181R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation; Stock	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
69	AG2572	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
69	AG2572	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	350		Balonne-Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 182/AG881; 194/AG2428; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966
69	AG2572	36618WR	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Waterharvesting	48/SP203223	48/SP203223; 69/AG2572
69	AG2572	87270R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	156/AG880; 157/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
69	AG2572	87272R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
103	AG2830	83069R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply	18/RP37111	103/AG2830; 18/RP37111; 19/RP37111
43	AG2993	15235R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	43/AG2993	43/AG2993
43	AG2993	15235R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	43/AG2993	43/AG2993
2	AG3200	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	AG3200	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
2	AG3200	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	AG3200	400510	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	64		Balonne- Condamine Basin	Irrigation	2/AG3200	2/AG3200; 2/RP24615; 2/RP48192; 5/RP47487
2	AG3200	400510	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	64		Balonne- Condamine Basin	Irrigation	2/AG3200	2/AG3200; 2/RP24615; 2/RP48192; 5/RP47487
2	AG3200	44064R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	AG3200	94084R	LTW	Surrendered		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
3	AG3669	35685R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	115		Balonne- Condamine Basin	Irrigation	3/RP124408	3/AG3669; 3/RP124408
40	AG3671	32655R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne- Condamine Basin	Stock	40/AG3671	40/AG3671
40	AG3671	32655R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne- Condamine Basin	Stock	40/AG3671	40/AG3671
41	AG3710	94308R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	42/AG3710	41/AG3710; 42/AG3710
42	AG3710	94308R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	42/AG3710	41/AG3710; 42/AG3710
42	AG3710	94308R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	42/AG3710	41/AG3710; 42/AG3710
1	AG4028	500321	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	2		Balonne- Condamine Basin	Commercial	1/AG4028	1/AG4028
1	AG4028	500321	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	2		Balonne- Condamine Basin	Commercial	1/AG4028	1/AG4028
1	AG4150	66261R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	7		Balonne- Condamine Basin	Irrigation	1/AG4150	1/AG4150
1	AG4150	66261R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	7		Balonne- Condamine Basin	Irrigation	1/AG4150	1/AG4150
124	AG811969	48514R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	6		Balonne- Condamine Basin	Educational Facility	124/AG811969	124/AG811969
124	AG811969	48514R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	6		Balonne- Condamine Basin	Educational Facility	124/AG811969	124/AG811969
181	AG880	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne- Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881
181	AG880	15819R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne- Condamine Basin	Irrigation	154/AG879; 177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
181	AG880	17718R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne- Condamine Basin	Domestic Supply; Stock	181/AG880	181/AG880
181	AG880	17718R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne- Condamine Basin	Domestic Supply; Stock	181/AG880	181/AG880
181	AG880	27181R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne- Condamine Basin	Irrigation; Stock	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
181	AG880	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOCC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
181	AG880	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	350		Balonne- Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 182/AG881; 194/AG2428; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966
181	AG880	87270R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	156/AG880; 157/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
181	AG880	87272R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
161	AG881	05918R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOCC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 91/AG83	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83
161	AG881	05918R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOCC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 91/AG83	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 91/AG83
161	AG881	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOCC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
161	AG881	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881
161	AG881	15819R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
161	AG881	27181R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation; Stock	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
161	AG881	27181R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation; Stock	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
161	AG881	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
161	AG881	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
161	AG881	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	350		Balonne-Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 182/AG881; 194/AG2428; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966
161	AG881	87270R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	156/AG880; 157/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
161	AG881	87272R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
59	AG881	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881
59	AG881	07276R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 59/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881
59	AG881	15819R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	154/AG879; 177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
59	AG881	27181R	LTW	Repealed		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation; Stock	159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 193/AG2328; 194/AG2428; 2/RP77571; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
59	AG881	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
59	AG881	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGO	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
59	AG881	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	350		Balonne- Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 182/AG881; 194/AG2428; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
59	AG881	87270R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	156/AG880; 157/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
59	AG881	87272R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	177/AG880	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3211; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/AG880; 178/AG881; 179/AG881; 180/AG881; 181/AG880; 182/AG881; 193/AG2328; 194/AG2428; 48/AG3598; 58/AG3088; 59/AG881; 69/AG2572; 91/AG83
1	AP3347	18609S	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	40		Balonne-Condamine Basin	Stock Intensive	19/RP30759; 2/RP60699; 20/RP30759; 32/RP30759	1/AP3347; 1/RP186725; 1/RP60699; 10/RP186725; 18/RP30759; 19/RP30759; 2/RP186725; 2/RP60699; 20/RP30759; 21/RP30759; 22/RP30759; 27/RP30759; 28/RP30759; 31/RP30759; 32/RP30759; 33/RP30759
29	B3426S	18527H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Domestic Supply; Stock	29/B3426S	29/B3426S
29	B3426S	18527H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Domestic Supply; Stock	29/B3426S	29/B3426S
29	B3426S	86089H	LTW	Surrendered		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit			Border Rivers Basin	Domestic Supply; Stock	29/B3426S	29/B3426S
29	B3426S	86089H	LTW	Surrendered		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit			Border Rivers Basin	Domestic Supply; Stock	29/B3426S	29/B3426S
30	B34273															
2	B34277															
53	B34329	07981H	LTW	Issued		416.01.12.03.04/Canning Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	40/MA3435; 53/B34329; 81/MA34105	40/MA3435; 53/B34329; 81/MA34105
53	B34329	07981H	LTW	Issued		416.01.12.03.04/Canning Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	40/MA3435; 53/B34329; 81/MA34105	40/MA3435; 53/B34329; 81/MA34105
53	B34329	18524H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	53/B34329	53/B34329
53	B34329	18524H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	53/B34329	53/B34329
54	B34329	52129H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	54/B34329	54/B34329
54	B34329	52129H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	54/B34329	54/B34329
54	B34329	54183H	LTW	Issued		416.01.12.03.04/Canning Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	54/B34329	54/B34329
54	B34329	54183H	LTW	Issued		416.01.12.03.04/Canning Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	54/B34329	54/B34329
74	B34408	36164H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	74/B34408	74/B34408
74	B34408	36164H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	74/B34408	74/B34408
263	BNT1499															
56	BNT1510	18650H	LTW	Repealed		4164.SB/Macintyre Inglewood Sandstone	GDGWU	Goondiwindi (Gdi) Groundwater Unsupplemented	GDGIW	Inglewood Sandstone Groundwater			Border Rivers Basin	Domestic Supply; Stock	56/BNT1510	56/BNT1510
56	BNT1510	18650H	LTW	Repealed		4164.SB/Macintyre Inglewood Sandstone	GDGWU	Goondiwindi (Gdi) Groundwater Unsupplemented	GDGIW	Inglewood Sandstone Groundwater			Border Rivers Basin	Domestic Supply; Stock	56/BNT1510	56/BNT1510
56	BNT1510	47994H	LTW	Issued		416.01.12.03.04/Canning Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	56/BNT1510	56/BNT1510
56	BNT1510	47994H	LTW	Issued		416.01.12.03.04/Canning Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	56/BNT1510	56/BNT1510
36	BNT164															
32	BNT184	16200H	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Domestic Supply; Stock	32/BNT184	32/BNT184
32	BNT184	16200H	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Domestic Supply; Stock	32/BNT184	32/BNT184
32	BNT184	173614	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	24		Border Rivers Basin	Irrigation; Stock	32/BNT184	32/BNT184

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32	BNT184	173614	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	24		Border Rivers Basin	Irrigation; Stock	32/BNT184	32/BNT184
32	BNT184	31622H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	32/BNT184	32/BNT184
32	BNT184	31622H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	32/BNT184	32/BNT184
1	BNT185															
174	BNT527	17405H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	174/BNT527	174/BNT527
174	BNT527	17405H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	174/BNT527	174/BNT527
57	BNT527	17406H	LTW	Expired - Can Not Reinstate		416.01.12.03.04/Cannin g Creek	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Irrigation	58/BNT527	57/BNT527; 58/BNT527
58	BNT527	17406H	LTW	Expired - Can Not Reinstate		416.01.12.03.04/Cannin g Creek	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Irrigation	58/BNT527	57/BNT527; 58/BNT527
58	BNT527	17406H	LTW	Expired - Can Not Reinstate		416.01.12.03.04/Cannin g Creek	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Irrigation	58/BNT527	57/BNT527; 58/BNT527
58	BNT527	567986	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	58/BNT527	58/BNT527
58	BNT527	567986	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	58/BNT527	58/BNT527
59	BNT527	37690H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	100		Border Rivers Basin	Agriculture	59/BNT527	59/BNT527
59	BNT527	37690H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	100		Border Rivers Basin	Agriculture	59/BNT527	59/BNT527
257	CLV34136	77269H	LTW	Repealed		4164.NOT/Formation Name Not Specified	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	256/CLV3483	169/CVE37; 24/CVE98; 243/CLV3484; 255/CLV3483; 256/CLV3483; 257/CLV34136; 272/CLV3474; 29/CVE43; 42/CVE98; 61/MH84; 62/MA3456; 67/CLV34105
103	CLV3475	34636H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	103/CLV3475; 2/RP184534	103/CLV3475; 2/RP184534
103	CLV3475	34636H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	103/CLV3475; 2/RP184534	103/CLV3475; 2/RP184534
2	CLV3483	186681	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	258/CLV3483	2/CLV3483; 241/CLV3483; 258/CLV3483; 259/CLV3483
2	CLV3483	54131H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	17/CLV3483; 258/CLV3483	17/CLV3483; 175/CLV3483; 2/CLV3483; 241/CLV3483; 258/CLV3483; 259/CLV3483
2	CLV3483	54133H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation; Waterharvesting	1/RP113651; 17/CLV3483; 258/CLV3483	1/RP113651; 17/CLV3483; 175/CLV3483; 2/CLV3483; 241/CLV3483; 258/CLV3483; 259/CLV3483
2	CLV3483	77303H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	2/CLV3483	2/CLV3483
2	CLV3483	77303H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	2/CLV3483	2/CLV3483
255	CLV3483	188145	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	176		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
255	CLV3483	188145	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	176		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
255	CLV3483	47801H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483; 72/CLV34117; 83/1721; 97/1721; 98/1721	255/CLV3483; 256/CLV3483; 6/17222; 72/CLV34117; 73/1721; 74/1721; 75/1721; 95/1721; 96/1721
255	CLV3483	47801H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483; 72/CLV34117; 83/1721; 97/1721; 98/1721	255/CLV3483; 256/CLV3483; 6/17222; 72/CLV34117; 73/1721; 74/1721; 75/1721; 95/1721; 96/1721
255	CLV3483	47803H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
255	CLV3483	47803H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483

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255	CLV3483	77269H	LTW	Repealed		4164.NOT/Formation Name Not Specified	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	256/CLV3483	169/CVE37; 24/CVE98; 243/CLV3484; 255/CLV3483; 256/CLV3483; 257/CLV34136; 272/CLV3474; 29/CVE43; 42/CVE98; 61/MH84; 62/MA3456; 67/CLV34105
256	CLV3483	188145	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	176		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
256	CLV3483	188145	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	176		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
256	CLV3483	47801H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483; 72/CLV34117; 83/1721; 97/1721; 98/1721	255/CLV3483; 256/CLV3483; 6/17222; 72/CLV34117; 73/1721; 74/1721; 75/1721; 95/1721; 96/1721
256	CLV3483	47801H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	255/CLV3483; 256/CLV3483; 72/CLV34117; 83/1721; 97/1721; 98/1721	255/CLV3483; 256/CLV3483; 6/17222; 72/CLV34117; 73/1721; 74/1721; 75/1721; 95/1721; 96/1721
256	CLV3483	47803H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
256	CLV3483	47803H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	255/CLV3483; 256/CLV3483	255/CLV3483; 256/CLV3483
256	CLV3483	77269H	LTW	Repealed		4164.NOT/Formation Name Not Specified	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	256/CLV3483	169/CVE37; 24/CVE98; 243/CLV3484; 255/CLV3483; 256/CLV3483; 257/CLV34136; 272/CLV3474; 29/CVE43; 42/CVE98; 61/MH84; 62/MA3456; 67/CLV34105
256	CLV3483	77269H	LTW	Repealed		4164.NOT/Formation Name Not Specified	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	256/CLV3483	169/CVE37; 24/CVE98; 243/CLV3484; 255/CLV3483; 256/CLV3483; 257/CLV34136; 272/CLV3474; 29/CVE43; 42/CVE98; 61/MH84; 62/MA3456; 67/CLV34105
70	CP850191															
71	CP850191	00270H	LTW	Issued		4162.KUMBA/kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	71/CP850191	71/CP850191
71	CP850191	00270H	LTW	Issued		4162.KUMBA/kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	71/CP850191	71/CP850191
34	CP884737	11790H	LTW	Surrendered		4162.NOT/Formation Name Not Specified	GAB19	Great Artesian Basin - Surat	SURA_2	Surat 2 Management Unit			Border Rivers Basin	Stock	34/CP884737	34/CP884737
34	CP884737	11790H	LTW	Surrendered		4162.NOT/Formation Name Not Specified	GAB19	Great Artesian Basin - Surat	SURA_2	Surat 2 Management Unit			Border Rivers Basin	Stock	34/CP884737	34/CP884737
34	CP884737	189068	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	10100		Border Rivers Basin	Irrigation	4/RP208165	34/CP884737; 7/RP911941; 8/SP146067
34	CP884737	189071	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	34/CP884737; 8/SP146067
34	CP884737	403278	LTW	Issued		4162.KUMBA/kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
34	CP884737	403278	LTW	Issued		4162.KUMBA/kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
34	CP884737	41086H	LTW	Cancelled		416.01.11A/Anabranch Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	14/MH796	34/CP884737
34	CP884737	607055	LTW	Issued		416.01-OLF/Macintyre River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR4MC	Macintyre River Off Catchment			Border Rivers Basin	Any	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
34	CP884737	607055	LTW	Issued		416.01-OLF/Macintyre River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR4MC	Macintyre River Off Catchment			Border Rivers Basin	Any	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
26	CVE248	28806H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	600		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
26	CVE248	28806H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	600		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
26	CVE248	28807H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
26	CVE248	28807H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
26	CVE248	28808H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
26	CVE248	28808H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248

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26	CVE248	28809H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
26	CVE248	28809H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	26/CVE248	26/CVE248
38	CVE363															
1	CVE517	28763H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	63		Border Rivers Basin	Agriculture	1/CVE517; 3/CVE107	1/CVE517; 1/RP67254; 3/CVE107; 3/RP67254; 39/CVE602
1	CVE517	28763H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	63		Border Rivers Basin	Agriculture	1/CVE517; 3/CVE107	1/CVE517; 1/RP67254; 3/CVE107; 3/RP67254; 39/CVE602
39	CVE602	28763H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	63		Border Rivers Basin	Agriculture	1/CVE517; 3/CVE107	1/CVE517; 1/RP67254; 3/CVE107; 3/RP67254; 39/CVE602
39	CVE602	77154H	LTW	Expired		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	39/CVE602	39/CVE602
39	CVE602	77154H	LTW	Expired		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	39/CVE602	39/CVE602
250	D35274	38358R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	10/RP24618; 3/AG2014	1/RP36568; 17/D3590; 250/D35274; 3/RP36568; 7/RP896729
250	D35274	38797R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater	194		Balonne- Condamine Basin	Irrigation	10/RP24618; 3/AG2014	1/RP36568; 17/D3590; 250/D35274; 3/RP36568; 7/RP896729
250	D35274	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne- Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 17/D3590; 14/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 8/SP296105; 800/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 17/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 800/SP296105; 9/SP296105
17	D3590	35456WR	LTW	Converted		422.01.34.03/Westbrook Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne- Condamine Basin	Irrigation	11/SP140293; 12/SP190236; 17/D3590	11/SP140293; 12/SP190236; 17/D3590
17	D3590	35456WR	LTW	Converted		422.01.34.03/Westbrook Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne- Condamine Basin	Irrigation	11/SP140293; 12/SP190236; 17/D3590	11/SP140293; 12/SP190236; 17/D3590
17	D3590	38358R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	10/RP24618; 3/AG2014	1/RP36568; 17/D3590; 250/D35274; 3/RP36568; 7/RP896729
17	D3590	38797R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater	194		Balonne- Condamine Basin	Irrigation	10/RP24618; 3/AG2014	1/RP36568; 17/D3590; 250/D35274; 3/RP36568; 7/RP896729
17	D3590	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne- Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 17/D3590; 14/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 800/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 17/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 800/SP296105; 9/SP296105
17	D3590	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne- Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 17/D3590; 14/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 800/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 17/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 800/SP296105; 9/SP296105
3683	DER34116	175204	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	256		Balonne- Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3683	DER34116	175204	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	256		Balonne- Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3683	DER34116	190574	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2	Central Condamine Subarea 2	200		Balonne- Condamine Basin	Irrigation; Stock Intensive	1363/M34502	1363/M34502; 2/RP898480; 3/RP16081; 3683/DER34116; 4/RP208702; 4/SP153098

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3683	DER34116	33244R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGMA4	Central Condamine Alluvium 4			Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502; 3/DY839419	1/RP37104; 1/RP37116; 1/RP37118; 1/RP37125; 11/DER3418; 1363/M34502; 2/RP37122; 2/RP37125; 2/RP898480; 298/DER3412; 3/DY839419; 3/RP16081; 325/DER3418; 342/DER3424; 360/DER3430; 3683/DER34116; 4/RP208702; 4/RP37121; 4/SP153098; 6/RP37122
3683	DER34116	613438	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	90		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3683	DER34116	613438	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	90		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3683	DER34116	613440	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	66		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
3683	DER34116	613440	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	66		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
3683	DER34116	614229	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	120		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3683	DER34116	614229	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	120		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3683	DER34116	614231	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	106		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
3683	DER34116	614231	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	106		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
2	DY1006	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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2	DY1006	103943	LTW	Repealed		4223.GAB/Condomine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condomine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
102	DY153															
66	DY153															
72	DY153															
73	DY153															
82	DY178	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condomine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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82	DY178	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
98	DY182	107640R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	12		Balonne-Condamine Basin	Industrial	98/DY182	98/DY182
98	DY182	107640R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	12		Balonne-Condamine Basin	Industrial	98/DY182	98/DY182
64	DY198	18685R	LTW	Issued		4162.KUMBA/Kumbarilla Beds	GAB21	Great Artesian Basin - Surat East	SURA_E1	Surat East 1 Management Unit	4		Border Rivers Basin	Stock; Stock Intensive	64/DY198	64/DY198
64	DY198	18685R	LTW	Issued		4162.KUMBA/Kumbarilla Beds	GAB21	Great Artesian Basin - Surat East	SURA_E1	Surat East 1 Management Unit	4		Border Rivers Basin	Stock; Stock Intensive	64/DY198	64/DY198
109	DY241	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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109	DY241	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
108	DY897	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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108	DY897	103943	LTW	Repealed		4223.GA8/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP3644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
341	FTY1881	32063H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	341/FTY1881	341/FTY1881
341	FTY1881	32063H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	341/FTY1881	341/FTY1881
16	I722	77034H	LTW	Repealed		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	16/I722	15/I722; 16/I722; 70/MA3479
16	I722	77034H	LTW	Repealed		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	16/I722	15/I722; 16/I722; 70/MA3479
19	I723	37556H	IWA	Converted		416.01.12.03.04/Canning Creek	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	105		Border Rivers Basin	Agriculture	2/RP60493	19/I723; 2/RP60493; 20/I723; 21/I723
20	I723	37556H	IWA	Converted		416.01.12.03.04/Canning Creek	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	105		Border Rivers Basin	Agriculture	2/RP60493	19/I723; 2/RP60493; 20/I723; 21/I723
21	I723	37556H	IWA	Converted		416.01.12.03.04/Canning Creek	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	105		Border Rivers Basin	Agriculture	2/RP60493	19/I723; 2/RP60493; 20/I723; 21/I723
1	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
11	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
12	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
13	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
13	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
14	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
2	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
25	K5781	71611H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	25/K5781	25/K5781
25	K5781	71611H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	25/K5781	25/K5781
3	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
4	K5781	71890H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	13/K5781	1/K5781; 11/K5781; 12/K5781; 13/K5781; 14/K5781; 2/K5781; 3/K5781; 4/K5781
80	MA34101	28743H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
80	MA34101	28743H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101

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80	MA34101	28744H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
80	MA34101	28744H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
81	MA34105	07981H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	40/MA3435; 53/B34329; 81/MA34105	40/MA3435; 53/B34329; 81/MA34105
81	MA34105	07981H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	40/MA3435; 53/B34329; 81/MA34105	40/MA3435; 53/B34329; 81/MA34105
33	MA34110	27382H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	33/MA34110	33/MA34110
33	MA34110	27382H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	33/MA34110	33/MA34110
77	MA3426	28629H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	195		Border Rivers Basin	Agriculture	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
77	MA3426	28629H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	195		Border Rivers Basin	Agriculture	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
77	MA3426	28737H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Domestic Supply; Irrigation; Stock	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
77	MA3426	28737H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Domestic Supply; Irrigation; Stock	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
128	MA3430	28743H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
128	MA3430	28743H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
128	MA3430	28744H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
128	MA3430	28744H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	128/MA3430; 80/MA34101	128/MA3430; 80/MA34101
148	MA3431	18503T	LTW	Repealed		4164.710/Macintyre Sandstones	WAGWU	Warwick (War) Groundwater Unsupplemented	WASAN	Warwick Sandstones Groundwater			Border Rivers Basin	Domestic Supply; Stock	148/MA3431	148/MA3431
148	MA3431	18503T	LTW	Repealed		4164.710/Macintyre Sandstones	WAGWU	Warwick (War) Groundwater Unsupplemented	WASAN	Warwick Sandstones Groundwater			Border Rivers Basin	Domestic Supply; Stock	148/MA3431	148/MA3431
152	MA3432	18542T	LTW	Cancelled		4164.MARBU/Marburg Subgroup	WAGWU	Warwick (War) Groundwater Unsupplemented	WASAN	Warwick Sandstones Groundwater	267		Border Rivers Basin	Irrigation; Stock	109/MA3442; 154/MA3432	1/RP91574; 109/MA3442; 152/MA3432; 154/MA3432; 2/RP91574; 22/MH386
152	MA3432	86459T	LTW	Repealed		4164.710/Macintyre Sandstones	WAGWU	Warwick (War) Groundwater Unsupplemented	WASAN	Warwick Sandstones Groundwater			Border Rivers Basin	Irrigation; Stock	154/MA3432	1/RP91574; 109/MA3442; 152/MA3432; 154/MA3432; 2/RP91574; 22/MH386
151	MA3433	28629H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	195		Border Rivers Basin	Agriculture	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
151	MA3433	28629H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	195		Border Rivers Basin	Agriculture	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
151	MA3433	28737H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Domestic Supply; Irrigation; Stock	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
151	MA3433	28737H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Domestic Supply; Irrigation; Stock	151/MA3433; 77/MA3426	151/MA3433; 77/MA3426
40	MA3435	07981H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	40/MA3435; 53/B34329; 81/MA34105	40/MA3435; 53/B34329; 81/MA34105
40	MA3435	07981H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	40/MA3435; 53/B34329; 81/MA34105	40/MA3435; 53/B34329; 81/MA34105

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
65	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
65	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
65	MA3454	43600H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	65/MA3454	10/MH762; 12/MH293; 4/MH192; 511/RP226715; 65/MA3454
65	MA3454	43600H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	65/MA3454	10/MH762; 12/MH293; 4/MH192; 511/RP226715; 65/MA3454
65	MA3454	47927H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	65/MA3454	65/MA3454
65	MA3454	47927H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	65/MA3454	65/MA3454
65	MA3454	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

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65	MA3454	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
65	MA3454	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	43598H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	63/MA3456; 66/MA3454; 67/MA3454; 7/MH286; 8/MH286
66	MA3454	47926H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	66/MA3454	66/MA3454
66	MA3454	47926H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	66/MA3454	66/MA3454
66	MA3454	56665H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	66/MA3454	66/MA3454
66	MA3454	56665H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	66/MA3454	66/MA3454

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66	MA3454	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
66	MA3454	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
67	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
67	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
67	MA3454	33215H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	67/MA3454
67	MA3454	33215H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	67/MA3454
67	MA3454	43598H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	63/MA3456; 66/MA3454; 67/MA3454; 7/MH286; 8/MH286
67	MA3454	43598H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	63/MA3456; 66/MA3454; 67/MA3454; 7/MH286; 8/MH286
67	MA3454	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
67	MA3454	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
67	MA3454	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 66/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
69	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
69	MA3454	28860H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	9/MH291	1/RP147969; 2/RP147969; 511/RP226715; 69/MA3454; 9/MH291
69	MA3454	54039H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	69/MA3454	10/MH762; 12/MH293; 511/RP226715; 69/MA3454
69	MA3454	54039H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	69/MA3454	10/MH762; 12/MH293; 511/RP226715; 69/MA3454
69	MA3454	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
69	MA3454	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
69	MA3454	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
70	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
70	MA3454	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
70	MA3454	34968H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	70/MA3454	70/MA3454
70	MA3454	34968H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	70/MA3454	70/MA3454
73	MA3455	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	34966H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	72/MA3455	1/RL1245; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455
73	MA3455	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
73	MA3455	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
73	MA3455	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
74	MA3455	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
74	MA3455	34966H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	72/MA3455	1/RL1245; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455
74	MA3455	43577H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	74/MA3455	74/MA3455; 75/MA3455
74	MA3455	43577H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	74/MA3455	74/MA3455; 75/MA3455
74	MA3455	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
74	MA3455	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
74	MA3455	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	33242H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	109/D36972	75/MA3455
75	MA3455	34966H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	72/MA3455	1/RL1245; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455
75	MA3455	43577H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	74/MA3455	74/MA3455; 75/MA3455
75	MA3455	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

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75	MA3455	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
75	MA3455	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
60	MA3456															
62	MA3456	77269H	LTW	Repealed		4164.NOT/Formation Name Not Specified	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	256/CLV3483	169/CVE37; 24/CVE98; 243/CLV3484; 255/CLV3483; 256/CLV3483; 257/CLV34136; 272/CLV3474; 29/CVE43; 42/CVE98; 61/MH84; 62/MA3456; 67/CLV34105
63	MA3456	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
63	MA3456	43598H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	63/MA3456; 66/MA3454; 67/MA3454; 7/MH286; 8/MH286
64	MA3456	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
273	MA3478	56608H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	22		Border Rivers Basin	Agriculture	273/MA3478	273/MA3478
273	MA3478	56608H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	22		Border Rivers Basin	Agriculture	273/MA3478	273/MA3478
76	MA3478	37521H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	330		Border Rivers Basin	Agriculture	76/MA3478	76/MA3478

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
76	MA3478	37521H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	330		Border Rivers Basin	Agriculture	76/MA3478	76/MA3478
76	MA3478	48791H	LTW	Issued		4162.HUTTO/Hutton Sandstone	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Domestic Supply; Stock	76/MA3478	76/MA3478
76	MA3478	48791H	LTW	Issued		4162.HUTTO/Hutton Sandstone	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Domestic Supply; Stock	76/MA3478	76/MA3478
70	MA3479	77034H	LTW	Repealed		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	16/1722	15/1722; 16/1722; 70/MA3479
102	MH143	603770	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	102/MH143	102/MH143
102	MH143	603770	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	102/MH143	102/MH143
104	MH143	12649H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	104/MH143	104/MH143
104	MH143	12649H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	104/MH143	104/MH143
106	MH143															
24	MH143	12306H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	24/MH143	24/MH143
24	MH143	12306H	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	24/MH143	24/MH143
25	MH143															
99	MH143	12132H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	99/MH143	99/MH143
99	MH143	12132H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	99/MH143	99/MH143
38	MH150	12095H	LTW	Repealed		4162.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	38/MH150	38/MH150
38	MH150	12095H	LTW	Repealed		4162.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	38/MH150	38/MH150
20	MH159	05407H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	20/MH159	20/MH159
20	MH159	05407H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	20/MH159	20/MH159
1	MH171	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
1	MH171	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH171	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
3	MH194	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
6	MH194	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
112	MH208	607616	LTW	Issued		4162.KUMBA/kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	112/MH208; 2/RP87405	112/MH208; 2/RP87405
112	MH208	607616	LTW	Issued		4162.KUMBA/kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	112/MH208; 2/RP87405	112/MH208; 2/RP87405
28	MH210															
49	MH233	71615H	LTW	Issued		4164.KUMBA/kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	49/MH233	49/MH233

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	Authorisation StatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
49	MH233	71615H	LTW	Issued		4164.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	49/MH233	49/MH233
52	MH233	77105H	LTW	Repealed		4163.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Domestic Supply; Stock	52/MH233	52/MH233
52	MH233	77105H	LTW	Repealed		4163.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Domestic Supply; Stock	52/MH233	52/MH233
53	MH233	77106H	LTW	Issued		4164.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	53/MH233	53/MH233
53	MH233	77106H	LTW	Issued		4164.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	53/MH233	53/MH233
54	MH233															
55	MH233	77107H	LTW	Issued		4164.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	55/MH233	55/MH233
55	MH233	77107H	LTW	Issued		4164.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	55/MH233	55/MH233
56	MH235	102116	LTW	Converted		416.01.12-1/Dumaresq River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	548		Border Rivers Basin	Irrigation; Stock Intensive	2/RP170889; 59/SP134244	55/SP169191; 56/MH235; 59/SP134244
56	MH235	77298H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244
56	MH235	77298H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244
62	MH258	12760H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	62/MH258	62/MH258
62	MH258	12760H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	62/MH258	62/MH258
65	MH259	54129H	LTW	Issued		416.01.12.01/Kippenbung Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	BOMDUTR	Dumaresq Zone Tributaries			Border Rivers Basin	Relift Water; Waterharvesting	15/RP213584; 65/MH259	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH567; 65/MH259; 81/MH284; 85/MH567
65	MH259	54129H	LTW	Issued		416.01.12.01/Kippenbung Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	BOMDUTR	Dumaresq Zone Tributaries			Border Rivers Basin	Relift Water; Waterharvesting	15/RP213584; 65/MH259	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH567; 65/MH259; 81/MH284; 85/MH567
65	MH259	618802	LTW	Issued		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	740		Border Rivers Basin	Irrigation	121/RP840422; 18/RP818379	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 65/MH259; 81/MH284; 85/MH567
65	MH259	77139H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	1		Border Rivers Basin	Commercial; Irrigation	131/RP840422; 14/RP213582; 15/RP213584; 65/MH259	131/RP840422; 14/RP213582; 15/RP213584; 65/MH259
65	MH259	77139H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	1		Border Rivers Basin	Commercial; Irrigation	131/RP840422; 14/RP213582; 15/RP213584; 65/MH259	131/RP840422; 14/RP213582; 15/RP213584; 65/MH259
65	MH259	77142H	LTW	Expired - Can Not Reinstate		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	240		Border Rivers Basin	Irrigation	18/RP818379	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 65/MH259; 81/MH284; 85/MH567
65	MH259	77148H	LTW	Expired - Can Not Reinstate		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	500		Border Rivers Basin	Irrigation	121/RP840422	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 65/MH259; 81/MH284; 85/MH567
67	MH259	12226H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	67/MH259	67/MH259
67	MH259	12226H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	67/MH259	67/MH259
69	MH259	12225H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	69/MH259	69/MH259
69	MH259	12225H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	69/MH259	69/MH259
70	MH259	43148H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	70/MH259	70/MH259
70	MH259	43148H	LTW	Issued		4162.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	70/MH259	70/MH259
250	MH270	403192	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	250/MH270	250/MH270
250	MH270	403192	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	250/MH270	250/MH270
84	MH285	16263H	LTW	Repealed		4162.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	84/MH285	84/MH285
84	MH285	16263H	LTW	Repealed		4162.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	84/MH285	84/MH285
7	MH286	100852	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir			Border Rivers Basin	Irrigation	7/MH286; 8/MH286	7/MH286; 8/MH286
7	MH286	100852	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir			Border Rivers Basin	Irrigation	7/MH286; 8/MH286	7/MH286; 8/MH286

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
7	MH286	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
7	MH286	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
7	MH286	43598H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	63/MA3456; 66/MA3454; 67/MA3454; 7/MH286; 8/MH286
8	MH286	100852	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir			Border Rivers Basin	Irrigation	7/MH286; 8/MH286	7/MH286; 8/MH286
8	MH286	100852	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir			Border Rivers Basin	Irrigation	7/MH286; 8/MH286	7/MH286; 8/MH286
8	MH286	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	43598H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	67/MA3454	63/MA3456; 66/MA3454; 67/MA3454; 7/MH286; 8/MH286
8	MH286	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
8	MH286	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
8	MH286	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MH286; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 66/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
9	MH291	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	28860H	IWA	Expired - Can Not Reinstated		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	9/MH291	1/RP147969; 2/RP147969; 511/RP226715; 69/MA3454; 9/MH291
9	MH291	28860H	IWA	Expired - Can Not Reinstated		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	9/MH291	1/RP147969; 2/RP147969; 511/RP226715; 69/MA3454; 9/MH291
9	MH291	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	AuthorisationReference	AuthorisationTypeShortDesc	AuthorisationStatusDesc	Water AllocationGroupDescription	WaterCodeSourcesList	ManagementGroupCode	ManagementGroup	ManagementSubGroupCode	ManagementSubgroup	NominalEntitlementPerWaterYearML	VolumetricLimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
9	MH291	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
9	MH291	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
12	MH293	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
12	MH293	43600H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	65/MA3454	10/MH762; 12/MH293; 4/MH192; 511/RP226715; 65/MA3454
12	MH293	54039H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	69/MA3454	10/MH762; 12/MH293; 511/RP226715; 69/MA3454
36	MH345	06756H	LTW	Repealed		4162.NOT/Formation Name Not Specified	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Domestic Supply; Stock	36/MH345	36/MH345
36	MH345	06756H	LTW	Repealed		4162.NOT/Formation Name Not Specified	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Domestic Supply; Stock	36/MH345	36/MH345
36	MH345	180412	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	36/MH345	36/MH345
36	MH345	180412	LTW	Issued		4162.ORALL/Orallo Formation	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	36/MH345	36/MH345
6	MH364	18711T	LTW	Issued		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit	6		Border Rivers Basin	Stock Intensive	6/MH364	6/MH364
6	MH364	18711T	LTW	Issued		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit	6		Border Rivers Basin	Stock Intensive	6/MH364	6/MH364
168	MH367	80898T	LTW	Issued		4163.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit	60		Border Rivers Basin	Aquaculture; Irrigation	168/MH367	168/MH367
168	MH367	80898T	LTW	Issued		4163.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit	60		Border Rivers Basin	Aquaculture; Irrigation	168/MH367	168/MH367
13	MH368	405251	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	13/MH368	13/MH368
13	MH368	405251	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	13/MH368	13/MH368
13	MH368	614926	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	18		Border Rivers Basin	Any	13/MH368	13/MH368
13	MH368	614926	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	18		Border Rivers Basin	Any	13/MH368	13/MH368
1	MH461	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH461	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	MH461	33946H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
1	MH461	33946H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
1	MH461	33947H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
1	MH461	33947H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
1	MH461	47983H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	2/MH461	1/MH461; 2/MH461
2	MH461	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	MH461	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	MH461	33946H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH461	33946H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH461	33947H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH461	33947H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH461	47983H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	2/MH461	1/MH461; 2/MH461
2	MH461	47983H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	2/MH461	1/MH461; 2/MH461
31	MH567	54129H	LTW	Issued		416.01.12.01/Kippenburg Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	BOMDUTR	Dumaesq Zone Tributaries			Border Rivers Basin	Relift Water; Waterharvesting	15/RP213584; 65/MH259	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH567; 65/MH259; 81/MH284; 85/MH567
85	MH567	54129H	LTW	Issued		416.01.12.01/Kippenburg Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	BOMDUTR	Dumaesq Zone Tributaries			Border Rivers Basin	Relift Water; Waterharvesting	15/RP213584; 65/MH259	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH567; 65/MH259; 81/MH284; 85/MH567
85	MH567	618802	LTW	Issued		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	740		Border Rivers Basin	Irrigation	121/RP840422; 15/RP213584; 18/RP818379; 31/MH259; 81/MH284; 85/MH567	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH259; 81/MH284; 85/MH567
85	MH567	77142H	LTW	Expired - Can Not Reinstate		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	240		Border Rivers Basin	Irrigation	18/RP818379	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH259; 81/MH284; 85/MH567
85	MH567	77148H	LTW	Expired - Can Not Reinstate		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	500		Border Rivers Basin	Irrigation	121/RP840422	121/RP840422; 131/RP840422; 14/RP213582; 15/RP213584; 18/RP818379; 31/MH259; 81/MH284; 85/MH567
92	MH611	28751H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	92/MH611	92/MH611
92	MH611	28751H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	92/MH611	92/MH611
92	MH611	28753H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	92/MH611	92/MH611

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
92	MH611	28753H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Agriculture	92/MH611	92/MH611
90	MH63	54137H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	90/MH63	90/MH63
90	MH63	54137H	LTW	Issued		416.01.12.03.04/Cannin g Creek	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	MBMLMTR	Lower Macintyre Brook Tributaries			Border Rivers Basin	Irrigation	90/MH63	90/MH63
102	MH643	86223H	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	102/MH643	102/MH643
102	MH643	86223H	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	102/MH643	102/MH643
87	MH689	28548H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	55		Border Rivers Basin	Agriculture	88/MH690	75/MH317; 87/MH689; 88/MH690
5	MH75	48707H	LTW	Issued		4164.WALLO/Walloon Coal Measures	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	5/MH75	5/MH75
5	MH75	48707H	LTW	Issued		4164.WALLO/Walloon Coal Measures	HUTTO	Hutton	S_HUTTON	Surat Hutton			Border Rivers Basin	Stock	5/MH75	5/MH75
2	MH784	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	MH784	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	MH784	33946H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH784	33946H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH784	33947H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
2	MH784	33947H	IWA	Expired - Can Not Reinststate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	1/MH461; 2/MH461; 2/MH784	1/MH461; 2/MH461; 2/MH784
39	MH796	101961	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1200		Border Rivers Basin	Irrigation	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
39	MH796	186148	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
23	MH80	12307H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	MOOGA	Mooga	MOOGA	Mooga			Border Rivers Basin	Domestic Supply; Stock	23/MH80	23/MH80
23	MH80	12307H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	MOOGA	Mooga	MOOGA	Mooga			Border Rivers Basin	Domestic Supply; Stock	23/MH80	23/MH80
12	MH814062	13300H	LTW	Expired		4162.KUMBA/Kumbarilla Beds	GAB19	Great Artesian Basin - Surat	SURA_4	Surat 4 Management Unit			Border Rivers Basin	Stock	12/MH814062	12/MH814062
12	MH814062	13300H	LTW	Expired		4162.KUMBA/Kumbarilla Beds	GAB19	Great Artesian Basin - Surat	SURA_4	Surat 4 Management Unit			Border Rivers Basin	Stock	12/MH814062	12/MH814062
12	MH814062	183286	LTW	Converted		416.01.12-1/Dumaresq River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	24/MH459	12/MH814062
12	MH814062	43462H	LTW	Converted		416.01.12-1/Dumaresq River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	24/MH459	12/MH814062; 24/MH459; 30/MH68; 33/SP139977
12	MH814062	47974H	LTW	Converted		416.01.12-1/Dumaresq River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1300		Border Rivers Basin	Irrigation	24/MH459	12/MH814062; 24/MH459; 30/MH68; 33/SP139977

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	Authorisation StatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
12	MH814062	617373	LTW	Issued		416.01.12-1-OLF/Dumaresq River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR3DQ	Dumaresq River Off Catchment			Border Rivers Basin	Any	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977
12	MH814062	617373	LTW	Issued		416.01.12-1-OLF/Dumaresq River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR3DQ	Dumaresq River Off Catchment			Border Rivers Basin	Any	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977
61	MH84	77269H	LTW	Repealed		4164.NOT/Formation Name Not Specified	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock	256/CLV3483	169/CVE37; 24/CVE98; 243/CLV3484; 255/CLV3483; 256/CLV3483; 257/CLV34136; 272/CLV3474; 29/CVE43; 42/CVE98; 61/MH84; 62/MA3456; 67/CLV34105
A	MH842	48603H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	A/MH842	A/MH842
A	MH842	48603H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	A/MH842	A/MH842
121	MH94	402283	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	121/MH94	121/MH94
121	MH94	402283	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	121/MH94	121/MH94
1	RL1245	34966H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	72/MA3455	1/RL1245; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455
1	RL1245	34967H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/RL1245	1/RL1245
1	RL1245	34967H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	1/RL1245	1/RL1245
1	RP101409	30127R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne- Condamine Basin	Stock	1/RP101409	1/RP101409
1	RP101409	30127R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne- Condamine Basin	Stock	1/RP101409	1/RP101409
1	RP108715	100691	LTW	Expired		4223.NOT/Formation Name Not Specified	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne- Condamine Basin	Irrigation	3006/A341468; 3027/A341468	1/RP108715; 2/RP108715; 3006/A341468; 3027/A341468; 3257/A341584; 3666/A341821
2	RP108715	100691	LTW	Expired		4223.NOT/Formation Name Not Specified	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne- Condamine Basin	Irrigation	3006/A341468; 3027/A341468	1/RP108715; 2/RP108715; 3006/A341468; 3027/A341468; 3257/A341584; 3666/A341821
1	RP113651	54132H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	550		Border Rivers Basin	Agriculture	1/RP113651	1/RP113651
1	RP113651	54132H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	550		Border Rivers Basin	Agriculture	1/RP113651	1/RP113651
1	RP113651	54133H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation; Waterharvesting	1/RP113651; 17/CLV3483; 258/CLV3483	1/RP113651; 17/CLV3483; 175/CLV3483; 2/CLV3483; 241/CLV3483; 258/CLV3483; 259/CLV3483
1	RP113651	54133H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation; Waterharvesting	1/RP113651; 17/CLV3483; 258/CLV3483	1/RP113651; 17/CLV3483; 175/CLV3483; 2/CLV3483; 241/CLV3483; 258/CLV3483; 259/CLV3483
2	RP116578	406617	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	480		Balonne- Condamine Basin	Town Water Supply	2/RP116578; 2/RP199515	
2	RP116578	94301R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne- Condamine Basin	Town Water Supply	2/RP116578; MILLMERRAN	
2	RP116578	94302R	LTW	Cancelled		4223.MARBU/Marburg Subgroup	GAB24	Great Artesian Basin - Eastern Downs	EAST_2	Eastern Downs 2 Management Unit	480		Balonne- Condamine Basin	Urban	2/RP116578; 2/RP199515	
1	RP116998	83298R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBNBG	Toowoomba North Basalts Groundwater	17		Balonne- Condamine Basin	Irrigation	1/RP116998	1/RP116998; 2/RP116998
1	RP116998	83298R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBNBG	Toowoomba North Basalts Groundwater	17		Balonne- Condamine Basin	Irrigation	1/RP116998	1/RP116998; 2/RP116998
2	RP116998	83298R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBNBG	Toowoomba North Basalts Groundwater	17		Balonne- Condamine Basin	Irrigation	1/RP116998	1/RP116998; 2/RP116998
1	RP118051	64358R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	11		Balonne- Condamine Basin	Irrigation	1/RP118051	1/RP118051
1	RP118051	64358R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	11		Balonne- Condamine Basin	Irrigation	1/RP118051	1/RP118051
1	RP123310	87426R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	16		Balonne- Condamine Basin	Irrigation	1/RP123310	1/RP123310

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1	RP123310	87426R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	16		Balonne-Condamine Basin	Irrigation	1/RP123310	1/RP123310
3	RP124408	35685R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	115		Balonne-Condamine Basin	Irrigation	3/RP124408	3/AG3669; 3/RP124408
3	RP124408	35685R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	115		Balonne-Condamine Basin	Irrigation	3/RP124408	3/AG3669; 3/RP124408
1	RP124715	94138R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3B	Central Condamine Alluvium 3B			Balonne-Condamine Basin	Irrigation	1/RP124715	1/RP124715; 2/RP124715
1	RP124715	94138R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3B	Central Condamine Alluvium 3B			Balonne-Condamine Basin	Irrigation	1/RP124715	1/RP124715; 2/RP124715
2	RP124715	94138R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3B	Central Condamine Alluvium 3B			Balonne-Condamine Basin	Irrigation	1/RP124715	1/RP124715; 2/RP124715
1	RP131964	107770R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	16		Balonne-Condamine Basin	Irrigation	1/RP131964	1/RP131964
1	RP131964	107770R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	16		Balonne-Condamine Basin	Irrigation	1/RP131964	1/RP131964
18	RP137899	177835	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	3		Balonne-Condamine Basin	Irrigation	18/RP137899	18/RP137899
18	RP137899	177835	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	3		Balonne-Condamine Basin	Irrigation	18/RP137899	18/RP137899
18	RP137899	36356R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Amenities	18/RP137899; 5/RP164232; GOWRIE MOUNTAIN	18/RP137899; 5/RP164232
18	RP137899	36356R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Amenities	18/RP137899; 5/RP164232; GOWRIE MOUNTAIN	18/RP137899; 5/RP164232
18	RP137899	37631R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Town Water Supply	18/RP137899; GOWRIE MOUNTAIN	18/RP137899
18	RP137899	37631R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Town Water Supply	18/RP137899; GOWRIE MOUNTAIN	18/RP137899
3	RP141188	32290R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon Coal Measures	ED_SP_W	Eastern Downs Springbok Walloon Coal Measures	26		Balonne-Condamine Basin	Irrigation	3/RP141188	3/RP141188
3	RP141188	32290R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon Coal Measures	ED_SP_W	Eastern Downs Springbok Walloon Coal Measures	26		Balonne-Condamine Basin	Irrigation	3/RP141188	3/RP141188
2	RP142209	35194R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 2/RP92015; 21/SP209523; 22/SP209523
2	RP142209	407791	LTW	Expired - Can Not Reinststate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	72		Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 21/SP209523; 22/SP209523
2	RP142209	66778R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Standby Irrigation	2/RP87871	1/RP142209; 2/RP142209; 2/RP87871; 2/RP92015
2	RP142209	87283R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Domestic Supply; Irrigation; Stock	2/RP87871	1/RP142209; 2/RP142209; 2/RP87871; 2/RP92015
3	RP14235	15310R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Transitional Zone 3	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	8		Balonne-Condamine Basin	Aquaculture	3/RP14235	3/RP14235
3	RP14235	15310R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Transitional Zone 3	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	8		Balonne-Condamine Basin	Aquaculture	3/RP14235	3/RP14235
54	RP14239	48237R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Transitional Zone 3	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	262		Balonne-Condamine Basin	Irrigation	54/RP14239	54/RP14239; 55/RP14239
54	RP14239	48237R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Transitional Zone 3	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	262		Balonne-Condamine Basin	Irrigation	54/RP14239	54/RP14239; 55/RP14239
55	RP14239	48237R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Transitional Zone 3	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	262		Balonne-Condamine Basin	Irrigation	54/RP14239	54/RP14239; 55/RP14239
63	RP14239	179095	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Cr Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
63	RP14239	18379R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2612/A341191; 3161/A341585; 64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239

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63	RP14239	33219R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2612/A341191	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
63	RP14239	47748R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	183		Balonne-Condamine Basin	Agriculture	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
63	RP14239	56068R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	250		Balonne-Condamine Basin	Agriculture	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
63	RP14239	94080R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	66/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	17909S	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	17909S	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	18379R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2612/A341191; 3161/A341585; 66/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	33219R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2612/A341191	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	47748R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	183		Balonne-Condamine Basin	Agriculture	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	47748R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	183		Balonne-Condamine Basin	Agriculture	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	56068R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	250		Balonne-Condamine Basin	Agriculture	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	56068R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	250		Balonne-Condamine Basin	Agriculture	64/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
64	RP14239	94080R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	66/RP14239	2612/A341191; 3161/A341585; 63/RP14239; 64/RP14239; 66/RP14239
44	RP14252	178561	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	178561	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	33232R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	44/RP14252	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	33232R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	44/RP14252	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	39234R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	290		Balonne-Condamine Basin	Agriculture	81/A34147	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	48219R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/AG2911	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	500212	LTW	Expired - Can Not Reinstate		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	133		Balonne-Condamine Basin	Irrigation	44/RP14252; 81/A34147	3/RP92662; 44/RP14252; 81/A34147
44	RP14252	500212	LTW	Expired - Can Not Reinstate		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	133		Balonne-Condamine Basin	Irrigation	44/RP14252; 81/A34147	3/RP92662; 44/RP14252; 81/A34147
44	RP14252	51719R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	180		Balonne-Condamine Basin	Agriculture	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	51719R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	180		Balonne-Condamine Basin	Agriculture	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
44	RP14252	83733R	LTW	Expired - Can Not Reinstate		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A	133		Balonne-Condamine Basin	Irrigation	44/RP14252; 81/A34147	3/RP92662; 44/RP14252; 81/A34147
44	RP14252	83733R	LTW	Expired - Can Not Reinstate		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A	133		Balonne-Condamine Basin	Irrigation	44/RP14252; 81/A34147	3/RP92662; 44/RP14252; 81/A34147

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44	RP14252	87275R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	1/RP140000	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
1	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
10	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
100	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
101	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
102	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
103	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
104	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
105	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
106	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
107	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
108	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
109	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
11	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
110	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
111	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
112	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
113	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
114	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
115	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
116	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
117	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
118	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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119	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
12	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
120	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
121	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
122	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
123	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
124	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
125	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
126	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
127	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
128	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
129	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
13	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
130	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
131	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
132	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
133	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
134	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
135	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
136	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
14	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
145	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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146	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
147	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
148	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
2	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
21	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
22	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
23	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
24	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
25	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
26	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
27	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
28	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
29	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
3	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
30	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
31	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
32	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
33	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
34	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
35	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
36	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
37	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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4	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
5	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
6	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
7	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
75	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
76	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
77	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
78	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
79	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
8	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
80	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
81	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
82	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
89	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
9	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
90	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
91	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
92	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
93	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
94	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
95	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
96	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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97	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
98	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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99	RP14255	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
1	RP142680															
2	RP142680	94532R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	21		Balonne-Condamine Basin	Irrigation	2/RP142680	2/RP142680
2	RP142680	94532R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	21		Balonne-Condamine Basin	Irrigation	2/RP142680	2/RP142680
2	RP145435	18781T	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	WANOT	War Not Assigned			Border Rivers Basin	Domestic Supply; Stock	2/RP145435	2/RP145435
2	RP145435	18781T	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	WANOT	War Not Assigned			Border Rivers Basin	Domestic Supply; Stock	2/RP145435	2/RP145435
1	RP147969	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP26715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 8/MH286; 9/MH291
1	RP147969	28860H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	9/MH291	1/RP147969; 2/RP147969; 511/RP226715; 69/MA3454; 9/MH291
1	RP147969	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

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1	RP147969	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
1	RP147969	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

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2	RP147969	28860H	IWA	Expired - Can Not Reinstat		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	9/MH291	1/RP147969; 2/RP147969; 511/RP226715; 69/MA3454; 9/MH291
2	RP147969	28861H	IWA	Expired - Can Not Reinstat		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	2/RP147969	2/RP147969
2	RP147969	28861H	IWA	Expired - Can Not Reinstat		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	2/RP147969	2/RP147969
2	RP147969	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77051H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77052H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77053H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77054H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77055H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77056H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77057H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77058H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77059H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77060H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP147969	77061H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

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2	RP147969	77062H	LTW	Surrendered		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Stock Intensive	67/MA3454	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/MA3455; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
2	RP149961	30052R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	75		Balonne-Condamine Basin	Irrigation	2/RP149961	2/RP149961; 20/RP36572
2	RP149961	30052R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	75		Balonne-Condamine Basin	Irrigation	2/RP149961	2/RP149961; 20/RP36572
2	RP149961	66652R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TB5SG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/RP149961	2/RP149961; 20/RP36572
2	RP149961	66652R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TB5SG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/RP149961	2/RP149961; 20/RP36572
1	RP155671	61117R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	1/RP155671	1/RP155671
1	RP155671	61117R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	1/RP155671	1/RP155671
1	RP155674	48168R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock	5/RP61982	1/RP155674; 2/RP155674; 2/RP48191; 3/RP61982; 5/RP61982; 6/RP61982
2	RP155674	37026R	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	148		Balonne-Condamine Basin	Irrigation	2/RP155674; 5/RP61982	2/RP155674; 3/RP61982; 4/AG1897; 5/RP61982; 6/RP61982
2	RP155674	37026R	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	148		Balonne-Condamine Basin	Irrigation	2/RP155674; 5/RP61982	2/RP155674; 3/RP61982; 4/AG1897; 5/RP61982; 6/RP61982
2	RP155674	48168R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock	5/RP61982	1/RP155674; 2/RP155674; 2/RP48191; 3/RP61982; 5/RP61982; 6/RP61982
2	RP155674	614210	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	74		Balonne-Condamine Basin	Irrigation	2/RP155674	2/RP155674
2	RP155674	614210	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	74		Balonne-Condamine Basin	Irrigation	2/RP155674	2/RP155674
1	RP156957	52128H	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Domestic Supply; Stock	1/RP156957	1/RP156957
1	RP156957	52128H	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Domestic Supply; Stock	1/RP156957	1/RP156957
3	RP16081	175204	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	256		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3	RP16081	175204	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	256		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3	RP16081	190574	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2	Central Condamine Subarea 2	200		Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502	1363/M34502; 2/RP898480; 3/RP16081; 3683/DER34116; 4/RP208702; 4/SP153098
3	RP16081	33244R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGMA4	Central Condamine Alluvium 4			Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502; 3/DY839419	1/RP37104; 1/RP37116; 1/RP37118; 1/RP37125; 11/DER3418; 1363/M34502; 2/RP37122; 2/RP37125; 2/RP898480; 298/DER3412; 3/DY839419; 3/RP16081; 325/DER3418; 342/DER3424; 360/DER3430; 3683/DER34116; 4/RP208702; 4/RP37121; 4/SP153098; 6/RP37122
3	RP16081	613438	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	90		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3	RP16081	613438	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	90		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3	RP16081	613440	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	66		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
3	RP16081	613440	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	66		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
3	RP16081	614229	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	120		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
3	RP16081	614229	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	120		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
3	RP16081	614231	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	106		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
3	RP16081	614231	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	106		Balonne-Condamine Basin	Stock Intensive	3/RP16081; 3683/DER34116	3/RP16081; 3683/DER34116
1	RP16094	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
1	RP16094	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
2	RP16094	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne- Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
2	RP16094	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne- Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
3	RP164232	94703R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	4		Balonne- Condamine Basin	Irrigation	3/RP164232	3/RP164232
3	RP164232	94703R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	4		Balonne- Condamine Basin	Irrigation	3/RP164232	3/RP164232
5	RP164232	177836	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	142		Balonne- Condamine Basin	Urban	5/RP164232	
5	RP164232	36356R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Amenities	18/RP137899; 5/RP164232; GOWRIE MOUNTAIN	18/RP137899; 5/RP164232
5	RP164232	36356R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Amenities	18/RP137899; 5/RP164232; GOWRIE MOUNTAIN	18/RP137899; 5/RP164232
1	RP169558	37572H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	15		Border Rivers Basin	Agriculture	1/RP169558	1/RP169558
1	RP169558	37572H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	15		Border Rivers Basin	Agriculture	1/RP169558	1/RP169558
2	RP169558	28764H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	300		Border Rivers Basin	Agriculture	254/CLV3483	2/RP169558; 254/CLV3483

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3	RP171155	61470R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	3/RP171155	3/RP171155
3	RP171155	61470R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	3/RP171155	3/RP171155
2	RP184534	34636H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	103/CLV3475; 2/RP184534	103/CLV3475; 2/RP184534
2	RP184534	34636H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	200		Border Rivers Basin	Agriculture	103/CLV3475; 2/RP184534	103/CLV3475; 2/RP184534
1	RP186725	16778R	LTW	Repealed		4223.MAIN/Main Range Volcanics	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation	32/RP30759; SEE TERM 4.0103 ,ROLLESTON,AUBIGNY	1/RP186725
1	RP186725	186095	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	40		Balonne-Condamine Basin	Stock Intensive	19/RP30759; 2/RP60699; 20/RP30759; 32/RP30759	1/AP3347; 1/RP186725; 1/RP60699; 10/RP186725; 18/RP30759; 19/RP30759; 2/RP186725; 2/RP60699; 20/RP30759; 21/RP30759; 22/RP30759; 27/RP30759; 28/RP30759; 31/RP30759; 32/RP30759; 33/RP30759
1	RP186725	28954R	LTW	Converted		422.01.38A/Perriers Gully	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP186725; 2/RP186725	1/RP186725; 2/RP186725
1	RP186725	28954R	LTW	Converted		422.01.38A/Perriers Gully	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP186725; 2/RP186725	1/RP186725; 2/RP186725
2	RP186725	186095	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	40		Balonne-Condamine Basin	Stock Intensive	19/RP30759; 2/RP60699; 20/RP30759; 32/RP30759	1/AP3347; 1/RP186725; 1/RP60699; 10/RP186725; 18/RP30759; 19/RP30759; 2/RP186725; 2/RP60699; 20/RP30759; 21/RP30759; 22/RP30759; 27/RP30759; 28/RP30759; 31/RP30759; 32/RP30759; 33/RP30759
2	RP186725	28954R	LTW	Converted		422.01.38A/Perriers Gully	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP186725; 2/RP186725	1/RP186725; 2/RP186725
2	RP186725	28954R	LTW	Converted		422.01.38A/Perriers Gully	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP186725; 2/RP186725	1/RP186725; 2/RP186725
1	RP189813	94027R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	4		Balonne-Condamine Basin	Irrigation	1/RP189813	1/RP189813
1	RP189813	94027R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	4		Balonne-Condamine Basin	Irrigation	1/RP189813	1/RP189813
1	RP193091	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP183091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 111/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
1	RP193091	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
2	RP197967	18780T	LTW	Issued		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	6		Balonne-Condamine Basin	Stock Intensive	2/RP197967	2/RP197967
2	RP197967	18780T	LTW	Issued		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	6		Balonne-Condamine Basin	Stock Intensive	2/RP197967	2/RP197967
1	RP202080	52510R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	42		Balonne-Condamine Basin	Irrigation	1/RP202080	1/RP202080
1	RP202080	52510R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	42		Balonne-Condamine Basin	Irrigation	1/RP202080	1/RP202080
1	RP202080	71276R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	1/RP202080	1/RP202080
1	RP202080	71276R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	1/RP202080	1/RP202080
1	RP203201	94729R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	20		Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP203201	1/RP203201; 2/RP203201
1	RP203201	94729R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	20		Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP203201	1/RP203201; 2/RP203201
2	RP203201	94729R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	20		Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP203201	1/RP203201; 2/RP203201
1	RP203202	44571R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	1/RP203202	1/RP203202; 2/RP203202
1	RP203202	44571R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	1/RP203202	1/RP203202; 2/RP203202
2	RP203202	44571R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	1/RP203202	1/RP203202; 2/RP203202
1	RP204251	83220R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	60		Balonne-Condamine Basin	Irrigation	9/SP285304	1/RP204251; 9/SP285304
4	RP208165	101961	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1200		Border Rivers Basin	Irrigation	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
4	RP208165	101961	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1200		Border Rivers Basin	Irrigation	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
4	RP208165	186148	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
4	RP208165	186148	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
4	RP208165	189068	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	10100		Border Rivers Basin	Irrigation	4/RP208165	34/CP884737; 7/RP911941; 8/SP146067
4	RP208165	189070	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	7/RP911941

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4	RP208165	189071	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	34/CP884737; 8/SP146067
4	RP208165	54075H	LTW	Cancelled		416.01.01/Rainbow Lagoon	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Divert Stream	4/RP208165; 7/RP847095	
4	RP208165	54140H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
4	RP208165	54141H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
4	RP208165	54142H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
4	RP208165	54143H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
4	RP208165	54144H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
4	RP208165	54145H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
4	RP208165	568008	LTW	Issued		416.01.01/Rainbow Lagoon	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	BOMMATR	Macintyre Zone Tributaries			Border Rivers Basin	Relift Water	4/RP208165	7/RP911941
12	RP212366	183300	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	12		Balonne-Condamine Basin	Irrigation	12/RP212366	12/RP212366; 15/RP212368; 6/RP212368
12	RP212366	183300	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	12		Balonne-Condamine Basin	Irrigation	12/RP212366	12/RP212366; 15/RP212368; 6/RP212368
15	RP212368	183300	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	12		Balonne-Condamine Basin	Irrigation	12/RP212366	12/RP212366; 15/RP212368; 6/RP212368
6	RP212368	183300	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	12		Balonne-Condamine Basin	Irrigation	12/RP212366	12/RP212366; 15/RP212368; 6/RP212368
85	RP212401	107514R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	86/RP212401	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
85	RP212401	56775R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/AG1900	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
85	RP212401	56776R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	2/AG1900	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
85	RP212401	56778R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/AG1900; 85/RP212401; 86/RP212401	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
85	RP212401	56778R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/AG1900; 85/RP212401; 86/RP212401	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
85	RP212401	94353R	LTW	Repealed		4223.630/Basalts - TBA South	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation	85/RP212401	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
85	RP212401	94353R	LTW	Repealed		4223.630/Basalts - TBA South	NOTAS	Not Assigned	TBNOT	Tba Not Assigned			Balonne-Condamine Basin	Irrigation	85/RP212401	1407/RP212401; 2/AG1900; 85/RP212401; 86/RP212401
6	RP215310	48155R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	8		Balonne-Condamine Basin	Irrigation	6/RP215310	6/RP215310
6	RP215310	48155R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	8		Balonne-Condamine Basin	Irrigation	6/RP215310	6/RP215310
1	RP215319	94605R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	14		Balonne-Condamine Basin	Irrigation	1/RP215319	1/RP215319
1	RP215319	94605R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	14		Balonne-Condamine Basin	Irrigation	1/RP215319	1/RP215319
2	RP215383	107744R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	54		Balonne-Condamine Basin	Irrigation	2/RP215383	2/RP215383
2	RP215383	107744R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	54		Balonne-Condamine Basin	Irrigation	2/RP215383	2/RP215383
15	RP215384	64080R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	16/RP215384	15/RP215384; 16/RP215384
16	RP215384	64080R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	16/RP215384	15/RP215384; 16/RP215384
16	RP215384	64080R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	16/RP215384	15/RP215384; 16/RP215384

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1	RP215385	87893R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	1/RP215385	1/RP215385
1	RP215385	87893R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	1/RP215385	1/RP215385
2	RP215386	71506R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	2/RP215386	2/RP215386
2	RP215386	71506R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	2/RP215386	2/RP215386
2	RP216755	101961	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1200		Border Rivers Basin	Irrigation	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
2	RP216755	186148	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
2	RP216755	54140H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
2	RP216755	54141H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
2	RP216755	54142H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
2	RP216755	54143H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
2	RP216755	54144H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
2	RP216755	54145H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
3	RP220762	86617R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	3/RP220762	3/RP220762
3	RP220762	86617R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	3/RP220762	3/RP220762
1	RP222059	61423R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	1/RP222059	1/RP222059
1	RP222059	61423R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	1/RP222059	1/RP222059
137	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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138	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
139	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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140	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
141	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
142	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
143	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
144	RP222854	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
83	RP222855	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
84	RP222855	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
85	RP222855	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
86	RP222855	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
87	RP222855	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
88	RP222855	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
57	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
58	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
59	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
60	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
61	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
62	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
63	RP222856	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP22857; 16/RP22857; 17/RP22857; 18/RP22857; 19/RP22857; 2/RP14255; 2/RP907313; 20/RP22857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
15	RP222857	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
16	RP222857	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
17	RP222857	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP22854; 138/RP22854; 139/RP22854; 14/RP14255; 140/RP22854; 141/RP22854; 142/RP22854; 143/RP22854; 144/RP22854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
18	RP222857	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
19	RP222857	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
20	RP222857	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
1	RP223182															
2	RP223182															
511	RP226715	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
511	RP226715	28860H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	9/MH291	1/RP147969; 2/RP147969; 511/RP226715; 69/MA3454; 9/MH291
511	RP226715	43600H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	65/MA3454	10/MH762; 12/MH293; 4/MH192; 511/RP226715; 65/MA3454
511	RP226715	54039H	IWA	Expired - Can Not Reinstate		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	0		Border Rivers Basin	Irrigation	69/MA3454	10/MH762; 12/MH293; 511/RP226715; 69/MA3454
511	RP226715	77135H	LTW	Issued		4164.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	511/RP226715	511/RP226715

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
511	RP226715	77135H	LTW	Issued		4164.KUMBA/kumarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	511/RP226715	511/RP226715
3	RP227390															
1	RP229600	32041R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	15		Balonne-Condamine Basin	Irrigation	1/RP229600	1/RP229600
1	RP229600	32041R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	15		Balonne-Condamine Basin	Irrigation	1/RP229600	1/RP229600
2	RP233820	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
2	RP233820	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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3	RP233820	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne- Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
3	RP233820	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne- Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
1	RP24606	61549R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	49		Balonne- Condamine Basin	Irrigation	1/RP24606	1/RP24606
1	RP24606	61549R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	49		Balonne- Condamine Basin	Irrigation	1/RP24606	1/RP24606
14	RP24607	19467R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne- Condamine Basin	Aquaculture; Irrigation	14/RP24607	14/RP24607
14	RP24607	19467R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne- Condamine Basin	Aquaculture; Irrigation	14/RP24607	14/RP24607
14	RP24607	66636R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	14/RP24607	14/RP24607
14	RP24607	66636R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	14/RP24607	14/RP24607
14	RP24607	94519R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Aquaculture; Irrigation	14/RP24607	14/RP24607
14	RP24607	94519R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Aquaculture; Irrigation	14/RP24607	14/RP24607
15	RP24607	47712R	LTW	Converted		422.01.34.03.02/Dry Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne- Condamine Basin	Waterharvesting	15/RP24607	15/RP24607

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15	RP24607	47712R	LTW	Converted		422.01.34.03.02/Dry Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOCC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Waterharvesting	15/RP24607	15/RP24607
15	RP24607	83744R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	40		Balonne-Condamine Basin	Irrigation	15/RP24607	15/RP24607
15	RP24607	83744R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	40		Balonne-Condamine Basin	Irrigation	15/RP24607	15/RP24607
16	RP24607	64884R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	52		Balonne-Condamine Basin	Any	16/RP24607	16/RP24607
16	RP24607	64884R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	52		Balonne-Condamine Basin	Any	16/RP24607	16/RP24607
17	RP24607	17488R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation; Stock Intensive	17/RP24607; 5/SP215309	17/RP24607; 4/SP215309; 5/SP215309; 6/SP215309
17	RP24607	17488R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation; Stock Intensive	17/RP24607; 5/SP215309	17/RP24607; 4/SP215309; 5/SP215309; 6/SP215309
17	RP24607	83248R	LTW	Repealed		4223.MARBU/Marburg Subgroup	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP124408	1/RP124408; 17/RP24607; 2/RP124408; 217/AG53
26	RP24609	404530	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Irrigation	26/RP24609	26/RP24609
26	RP24609	404530	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Irrigation	26/RP24609	26/RP24609
26	RP24609	64092R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	5		Balonne-Condamine Basin	Irrigation	26/RP24609	26/RP24609
26	RP24609	64092R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	5		Balonne-Condamine Basin	Irrigation	26/RP24609	26/RP24609
26	RP24609	83537R	LTW	Repealed		4223.MARBU/Marburg Subgroup	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	26/RP24609	26/RP24609
26	RP24609	83537R	LTW	Repealed		4223.MARBU/Marburg Subgroup	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	26/RP24609	26/RP24609
2	RP24614	19497R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	2/RP24614	2/RP24614
2	RP24614	19497R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	2/RP24614	2/RP24614
3	RP24614	48084R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	87		Balonne-Condamine Basin	Irrigation	3/RP24614	3/RP24614
3	RP24614	48084R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	87		Balonne-Condamine Basin	Irrigation	3/RP24614	3/RP24614
4	RP24614	83136R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	4/RP24614	4/RP24614
4	RP24614	83136R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	4/RP24614	4/RP24614
4	RP24614	87852R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	65		Balonne-Condamine Basin	Irrigation	4/RP24614	4/RP24614
4	RP24614	87852R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	65		Balonne-Condamine Basin	Irrigation	4/RP24614	4/RP24614
1	RP24615	71126R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Any	1/RP24615	1/RP24615; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 8/SP296105; 800/SP296105
1	RP24615	71126R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TB5BG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Any	1/RP24615	1/RP24615; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 8/SP296105; 800/SP296105
2	RP24615	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TB5SG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP24615	400510	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	64		Balonne-Condamine Basin	Irrigation	2/AG3200	2/AG3200; 2/RP24615; 2/RP48192; 5/RP47487
2	RP24615	44064R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TB5SG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
2	RP24615	94084R	LTW	Surrendered		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
14	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	
14	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	
14	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
14	RP24623	86580R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	37/RP24623	14/RP24623; 2/RP839421; 39/RP24623
37	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	
37	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	
37	RP24623	26313R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	37/RP24623; 38/RP24623	37/RP24623; 38/RP24623
37	RP24623	26313R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	37/RP24623; 38/RP24623	37/RP24623; 38/RP24623

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationS tatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
37	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne- Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
37	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne- Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
37	RP24623	86580R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	37/RP24623	14/RP24623; 2/RP839421; 39/RP24623
38	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
38	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
38	RP24623	26313R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Domestic Supply; Irrigation; Stock	37/RP24623; 38/RP24623	37/RP24623; 38/RP24623
38	RP24623	26313R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Domestic Supply; Irrigation; Stock	37/RP24623; 38/RP24623	37/RP24623; 38/RP24623
38	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne- Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
38	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne- Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
39	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
39	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
39	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
39	RP24623	86580R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	37/RP24623	14/RP24623; 2/RP839421; 39/RP24623
40	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
40	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
40	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623

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40	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
41	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
41	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
41	RP24623	19083R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	41/RP24623	41/RP24623
41	RP24623	19083R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	41/RP24623	41/RP24623
41	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
41	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
42	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
42	RP24623	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
42	RP24623	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
31	RP30759	186095	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	40		Balonne-Condamine Basin	Stock Intensive	19/RP30759; 2/RP60699; 20/RP30759; 32/RP30759	1/RP3347; 1/RP186725; 1/RP60699; 10/RP186725; 18/RP30759; 19/RP30759; 2/RP186725; 2/RP60699; 20/RP30759; 21/RP30759; 22/RP30759; 27/RP30759; 28/RP30759; 31/RP30759; 32/RP30759; 33/RP30759
2	RP30861	176728	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	160		Balonne-Condamine Basin	Irrigation	2/RP30861; 2/RP66852	2/RP30861; 2/RP66852
2	RP30861	176728	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	160		Balonne-Condamine Basin	Irrigation	2/RP30861; 2/RP66852	2/RP30861; 2/RP66852
1	RP36568	38358R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	10/RP24618; 3/AG2014	1/RP36568; 17/D3590; 250/D35274; 3/RP36568; 7/RP896729
1	RP36568	38797R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater	194		Balonne-Condamine Basin	Irrigation	10/RP24618; 3/AG2014	1/RP36568; 17/D3590; 250/D35274; 3/RP36568; 7/RP896729
1	RP36568	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne-Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 8/SP296105; 800/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105; 9/SP296105
15	RP36572	94835R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	15/RP36572	15/RP36572
15	RP36572	94835R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	15/RP36572	15/RP36572
15	RP36572	94836R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	15/RP36572	
18	RP36572	107046R	LTW	Repealed		4223.730/Sandstones - Toowoomba South	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	18/RP36572; 19/RP36572	18/RP36572; 19/RP36572
18	RP36572	107046R	LTW	Repealed		4223.730/Sandstones - Toowoomba South	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	18/RP36572; 19/RP36572	18/RP36572; 19/RP36572
19	RP36572	107046R	LTW	Repealed		4223.730/Sandstones - Toowoomba South	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	18/RP36572; 19/RP36572	18/RP36572; 19/RP36572
19	RP36572	107046R	LTW	Repealed		4223.730/Sandstones - Toowoomba South	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	18/RP36572; 19/RP36572	18/RP36572; 19/RP36572
20	RP36572	30052R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	75		Balonne-Condamine Basin	Irrigation	2/RP149961	2/RP149961; 20/RP36572
20	RP36572	66652R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/RP149961	2/RP149961; 20/RP36572
6	RP37106	51819R	LTW	Issued		422.01+/Unnamed Tributary of Condamine River	CBTWMA	Condamine Balonne Tributaries Water Management Area	CBTM06	Condamine Balonne Tributaries Zone 6			Balonne-Condamine Basin	Irrigation	3/RP37108	3/RP37108; 3/SP254028; 6/RP37106; 9/RP37106

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9	RP37106	30805R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2U	Central Condamine Subarea 2 - Urban	450		Balonne-Condamine Basin	Urban	14/SP254028; 2/RP104524; 2/RP53442; 2/RP92200; 9/RP37106	
9	RP37106	51819R	LTW	Issued		422.01+/Unnamed Tributary of Condamine River	CBTWMA	Condamine Balonne Tributaries Water Management Area	CBTM06	Condamine Balonne Tributaries Zone 6			Balonne-Condamine Basin	Irrigation	3/RP37108	3/RP37108; 3/SP254028; 6/RP37106; 9/RP37106
9	RP37106	83477R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGUR8	Central Condamine Alluvium Urban			Balonne-Condamine Basin	Town Water Supply	9/RP37106; MILLMERRAN	
3	RP37108	51819R	LTW	Issued		422.01+/Unnamed Tributary of Condamine River	CBTWMA	Condamine Balonne Tributaries Water Management Area	CBTM06	Condamine Balonne Tributaries Zone 6			Balonne-Condamine Basin	Irrigation	3/RP37108	3/RP37108; 3/SP254028; 6/RP37106; 9/RP37106
3	RP37108	51819R	LTW	Issued		422.01+/Unnamed Tributary of Condamine River	CBTWMA	Condamine Balonne Tributaries Water Management Area	CBTM06	Condamine Balonne Tributaries Zone 6			Balonne-Condamine Basin	Irrigation	3/RP37108	3/RP37108; 3/SP254028; 6/RP37106; 9/RP37106
17	RP37111															
18	RP37111	83069R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply	18/RP37111	103/AG2830; 18/RP37111; 19/RP37111
18	RP37111	83069R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply	18/RP37111	103/AG2830; 18/RP37111; 19/RP37111
19	RP37111	83069R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply	18/RP37111	103/AG2830; 18/RP37111; 19/RP37111
2	RP40070	100837	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	10		Balonne-Condamine Basin	Irrigation	2/RP40070	2/RP40070
2	RP40070	100837	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	10		Balonne-Condamine Basin	Irrigation	2/RP40070	2/RP40070
5	RP47487	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
5	RP47487	400510	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	64		Balonne-Condamine Basin	Irrigation	2/AG3200	2/AG3200; 2/RP24615; 2/RP48192; 5/RP47487
5	RP47487	44064R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
5	RP47487	94084R	LTW	Surrendered		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
10	RP47857	16663R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Irrigation	2/RP86319	10/RP47857; 2/RP86319
10	RP47857	30791R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	10/RP47857	10/RP47857
10	RP47857	30791R	LTW	Repealed		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Domestic Supply; Stock	10/RP47857	10/RP47857
10	RP47857	36116R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP86319	10/RP47857; 2/RP86319
2	RP48190	35926R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP48190	13/RP24607; 2/RP48190
2	RP48190	35926R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP48190	13/RP24607; 2/RP48190
2	RP48190	409045	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	49		Balonne-Condamine Basin	Irrigation	2/RP48190	2/RP48190
2	RP48190	409045	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	49		Balonne-Condamine Basin	Irrigation	2/RP48190	2/RP48190
2	RP48190	71127R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP48190	13/RP24607; 2/RP48190
2	RP48190	71127R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP48190	13/RP24607; 2/RP48190
2	RP48190	86764R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP48190	13/RP24607; 2/RP48190
2	RP48190	86764R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP48190	13/RP24607; 2/RP48190
2	RP48191	48168R	LTW	Expired		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock	5/RP61982	1/RP155674; 2/RP155674; 2/RP48191; 3/RP61982; 5/RP61982; 6/RP61982

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2	RP48192	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP48192	400510	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	64		Balonne- Condamine Basin	Irrigation	2/AG3200	2/AG3200; 2/RP24615; 2/RP48192; 5/RP47487
2	RP48192	44064R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP48192	94084R	LTW	Surrendered		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
1	RP49163	101180	LTW	Repealed		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation	1/RP49163	1/RP49163
1	RP49163	101180	LTW	Repealed		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation	1/RP49163	1/RP49163
1	RP49163	101961	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1200		Border Rivers Basin	Irrigation	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
1	RP49163	186148	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
1	RP49163	54140H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
1	RP49163	54141H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
1	RP49163	54142H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
1	RP49163	54143H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
1	RP49163	54144H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
1	RP49163	54145H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
2	RP49965	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP49965	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP49965	38773R	LTW	Repealed		4223.MAIN/Main Range Volcanics; 4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation	2/AG3200; 2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP49965	400511	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	128		Balonne- Condamine Basin	Any	2/RP49965	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 2/AG2014; 2/RP49965; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105
2	RP49965	400511	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	128		Balonne- Condamine Basin	Any	2/RP49965	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 2/AG2014; 2/RP49965; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105
2	RP49965	44064R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP49965	44064R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP49965	94084R	LTW	Surrendered		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP49965	94084R	LTW	Surrendered		4223.WALLM/Walloon Coal Measures	TBGWU	Toowoomba Groundwater Unsupplemented	TBSSG	Toowoomba South Sandstones Groundwater			Balonne- Condamine Basin	Irrigation; Stock	2/RP49965	2/AG3200; 2/RP24615; 2/RP48192; 2/RP49965; 5/RP47487
2	RP50027	61301R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	172		Balonne- Condamine Basin	Irrigation; Stock	1495/A34822	1495/A34822; 2/RP50027
2	RP50027	61302R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	172		Balonne- Condamine Basin	Irrigation	1495/A34822	1495/A34822; 2/RP50027
14	RP50741	107114R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne- Condamine Basin	Irrigation	14/RP50741	14/RP50741

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14	RP50741	107114R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	14/RP50741	14/RP50741
14	RP50741	107747R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	14/RP50741	14/RP50741
14	RP50741	107747R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	14/RP50741	14/RP50741
14	RP50741	16732R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	108		Balonne-Condamine Basin	Irrigation	14/RP50741	14/RP50741
14	RP50741	16732R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	108		Balonne-Condamine Basin	Irrigation	14/RP50741	14/RP50741
2	RP53442	28934R	LTW	Converted		422.01/Condamine River	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP104524	2/RP104524; 2/RP53442; 3/RP55115
2	RP53442	30805R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2U	Central Condamine Subarea 2 - Urban	450		Balonne-Condamine Basin	Urban	14/SP254028; 2/RP104524; 2/RP53442; 2/RP92200; 9/RP37106	
2	RP53442	33663R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3B	Central Condamine Alluvium 3B			Balonne-Condamine Basin	Irrigation	2/RP53442	2/RP53442; 3/RP55115
2	RP53442	33663R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3B	Central Condamine Alluvium 3B			Balonne-Condamine Basin	Irrigation	2/RP53442	2/RP53442; 3/RP55115
2	RP53442	34646R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3S	Central Condamine Subarea 2 - Transitional Zone 3 - Group 5	217		Balonne-Condamine Basin	Irrigation	2/RP53442; 3/RP55115	2/RP53442; 3/RP55115
2	RP53442	34646R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3S	Central Condamine Subarea 2 - Transitional Zone 3 - Group 5	217		Balonne-Condamine Basin	Irrigation	2/RP53442; 3/RP55115	2/RP53442; 3/RP55115
2	RP53442	34646R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3S	Central Condamine Subarea 2 - Transitional Zone 3 - Group 5	217		Balonne-Condamine Basin	Irrigation	2/RP53442; 3/RP55115	2/RP53442; 3/RP55115
2	RP53442	41002R	LTW	Converted		422.01/Condamine River	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP104524	2/RP104524; 2/RP53442; 3/RP55115
2	RP53442	51883R	LTW	Converted		422.01/Condamine River	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP104524	2/RP104524; 2/RP53442; 3/RP55115
2	RP53442	83112R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGURB	Central Condamine Alluvium Urban			Balonne-Condamine Basin	Town Water Supply	2/RP53442; MILLMERRAN	
1	RP55460	190311	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
1	RP55460	51705R	LTW	Expired		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
1	RP55460	55905R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	44/AG109	1/RP55460; 44/AG109
2	RP55460	14285R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	2/RP55460	2/RP55460
2	RP55460	14285R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	2/RP55460	2/RP55460
2	RP55460	64284R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	8		Balonne-Condamine Basin	Irrigation	2/RP55460	2/RP55460
2	RP55460	64284R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	8		Balonne-Condamine Basin	Irrigation	2/RP55460	2/RP55460
2	RP58226	48060T	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	WANOT	War Not Assigned			Border Rivers Basin	Domestic Supply; Stock	2/RP58226	2/RP58226
2	RP58226	48060T	LTW	Repealed		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	WANOT	War Not Assigned			Border Rivers Basin	Domestic Supply; Stock	2/RP58226	2/RP58226
2	RP61876	94424R	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	100		Balonne-Condamine Basin	Irrigation	3/RP35147	1/RP35143; 1/RP35147; 1/RP61876; 2/RP35143; 2/RP61876; 3/RP35147
1	RP62008	52125H	LTW	Issued		4164.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda	2		Border Rivers Basin	Industrial	1/RP62008	1/RP62008
1	RP62008	52125H	LTW	Issued		4164.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda	2		Border Rivers Basin	Industrial	1/RP62008	1/RP62008
2	RP66852	176728	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	160		Balonne-Condamine Basin	Irrigation	2/RP30861; 2/RP66852	2/RP30861; 2/RP66852

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
2	RP66852	176728	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	160		Balonne-Condamine Basin	Irrigation	2/RP30861; 2/RP66852	2/RP30861; 2/RP66852
1	RP67254	28763H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	63		Border Rivers Basin	Agriculture	1/CVE517; 3/CVE107	1/CVE517; 1/RP67254; 3/CVE107; 3/RP67254; 39/CVE602
3	RP67254	28763H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	63		Border Rivers Basin	Agriculture	1/CVE517; 3/CVE107	1/CVE517; 1/RP67254; 3/CVE107; 3/RP67254; 39/CVE602
2	RP70945	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
2	RP70945	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
2	RP71738	179381	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP71738	47764R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	322		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP71738	47765R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	220		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP71738	51770R	IWA	Repealed		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	0		Balonne-Condamine Basin	Irrigation	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
14	RP7454	100696	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Irrigation	14/RP7454	14/RP7454
14	RP7454	100696	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Irrigation	14/RP7454	14/RP7454
15	RP7454	94077R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	25		Balonne-Condamine Basin	Irrigation	15/RP7454	15/RP7454
15	RP7454	94077R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	25		Balonne-Condamine Basin	Irrigation	15/RP7454	15/RP7454
17	RP7454	174827	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Irrigation	17/RP7454	17/RP7454
17	RP7454	174827	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Irrigation	17/RP7454	17/RP7454
2	RP7456	64493R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	3		Balonne-Condamine Basin	Irrigation	2/RP7456	2/RP7456
2	RP7456	64493R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	3		Balonne-Condamine Basin	Irrigation	2/RP7456	2/RP7456
2	RP76562	171251	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	16		Balonne-Condamine Basin	Irrigation	2/RP76562	2/RP76562
2	RP76562	171251	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	16		Balonne-Condamine Basin	Irrigation	2/RP76562	2/RP76562
4	RP803197	87057R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Irrigation	4/RP803197	4/RP803197
4	RP803197	87057R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Irrigation	4/RP803197	4/RP803197
3	RP803554	179381	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
3	RP803554	47764R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	322		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
3	RP803554	47765R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	220		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
3	RP803554	51770R	IWA	Repealed		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	0		Balonne-Condamine Basin	Irrigation	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
1	RP80836	28879H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	30		Border Rivers Basin	Agriculture	1/RP80836	1/RP80836
1	RP80836	28879H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	30		Border Rivers Basin	Agriculture	1/RP80836	1/RP80836
2	RP838203	51844R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakay Creek Water Management Area	TBGOC	Gowrie Oakay Creek Management Area			Balonne-Condamine Basin	Irrigation	2/RP838203	2/RP838203

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
2	RP838203	51844R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakey Creek Water Management Area	TBGOC	Gowrie Oakey Creek Management Area			Balonne-Condamine Basin	Irrigation	2/RP838203	2/RP838203
2	RP839421	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
2	RP839421	107098R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Stock	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 3/RP156619; 35/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 36/RP24623; 37/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
2	RP839421	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
2	RP839421	56685R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	264		Balonne-Condamine Basin	Irrigation	2/RP156619; 2/RP839421; 37/RP24623; 38/RP24623; 40/RP24623; 41/RP24623	1/RP156619; 14/RP24623; 17/RP24623; 18/RP24623; 2/RP156619; 2/RP839421; 2/RP156619; 2/RP839421; 3/RP156619; 35/RP24623; 36/RP24623; 37/RP24623; 38/RP24623; 39/RP24623; 40/RP24623; 41/RP24623; 42/RP24623
2	RP839421	71152R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/RP839421	1/RP156619; 2/RP156619; 2/RP839421; 3/RP839421
2	RP839421	71152R	LTW	Repealed		4223.630/Basalts - TBA South	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation; Stock	2/RP839421	1/RP156619; 2/RP156619; 2/RP839421; 3/RP839421
2	RP839421	86580R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	37/RP24623	14/RP24623; 2/RP839421; 39/RP24623
1	RP842375	94482R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	31		Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP842375	1/RP842375
1	RP842375	94482R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	31		Balonne-Condamine Basin	Irrigation; Stock Intensive	1/RP842375	1/RP842375
2	RP842375	107501R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation	2/RP842375	2/RP842375
2	RP842375	107501R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Domestic Supply; Irrigation	2/RP842375	2/RP842375
2	RP842375	36446R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	55		Balonne-Condamine Basin	Irrigation	2/RP842375	2/RP842375
2	RP842375	36446R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	55		Balonne-Condamine Basin	Irrigation	2/RP842375	2/RP842375
4	RP842375	87420R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	18		Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	4/RP842375	4/RP842375
4	RP842375	87420R	LTW	Expired		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	18		Balonne-Condamine Basin	Domestic Supply; Irrigation; Stock	4/RP842375	4/RP842375
412	RP847095	101961	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1200		Border Rivers Basin	Irrigation	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
412	RP847095	186148	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	1/RP49163; 2/RP216755; 39/MH796; 4/RP208165; 412/RP847095; 51/SP131989
2	RP86319	16663R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Irrigation	2/RP86319	10/RP47857; 2/RP86319
2	RP86319	16663R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	35		Balonne-Condamine Basin	Irrigation	2/RP86319	10/RP47857; 2/RP86319
2	RP86319	36116R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP86319	10/RP47857; 2/RP86319
2	RP86319	36116R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP86319	10/RP47857; 2/RP86319
5	RP864802	87748R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	5/RP864802	5/RP864802
5	RP864802	87748R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	10		Balonne-Condamine Basin	Irrigation	5/RP864802	5/RP864802
7	RP864802	35413R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Irrigation	7/RP864802	7/RP864802
7	RP864802	35413R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Irrigation	7/RP864802	7/RP864802
7	RP864802	61503R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	7/RP864802	7/RP864802
7	RP864802	61503R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	7/RP864802	7/RP864802
2	RP87405	607616	LTW	Issued		4162.KUMBA/Kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	112/MH208; 2/RP87405	112/MH208; 2/RP87405
2	RP87405	607616	LTW	Issued		4162.KUMBA/Kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	112/MH208; 2/RP87405	112/MH208; 2/RP87405
2	RP87457	179381	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	179381	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	31504R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/RP87457	2/RP87457
2	RP87457	31504R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/RP87457	2/RP87457
2	RP87457	32070R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/RP87457	2/RP87457
2	RP87457	32070R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/RP87457	2/RP87457
2	RP87457	35029R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/RP87457	2/RP87457
2	RP87457	35029R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/RP87457	2/RP87457
2	RP87457	47764R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	322		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	47764R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	322		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	47765R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	220		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	47765R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	220		Balonne-Condamine Basin	Agriculture	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	51770R	IWA	Repealed		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	0		Balonne-Condamine Basin	Irrigation	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582
2	RP87457	51770R	IWA	Repealed		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	0		Balonne-Condamine Basin	Irrigation	2/RP87457	1/AG1803; 2/RP71738; 2/RP87457; 3/RP803554; 3149/A341582

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2	RP87457	61027R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	186		Balonne-Condamine Basin	Irrigation	2/RP87457; 3160/A341585; 3276/A341671; 3303/AG2913	2/RP87457; 3160/A341585; 3276/A341671; 3303/AG2913
2	RP87457	61027R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	186		Balonne-Condamine Basin	Irrigation	2/RP87457; 3276/A341671	2/RP87457; 3160/A341585; 3276/A341671; 3303/AG2913
56	RP884730	56650H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	10		Border Rivers Basin	Agriculture; Stock Intensive	57/RP884730	56/RP884730
56	RP884730	77271H	LTW	Issued		4164.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda	24		Border Rivers Basin	Stock; Stock Intensive	56/RP884730	56/RP884730
56	RP884730	77271H	LTW	Issued		4164.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda	24		Border Rivers Basin	Stock; Stock Intensive	56/RP884730	56/RP884730
1	RP88988	77015H	LTW	Expired		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	1/RP88988	1/RP88988
1	RP88988	77015H	LTW	Expired		4164.NOT/Formation Name Not Specified	NOTAS	Not Assigned	GDNOT	Gdi Not Assigned			Border Rivers Basin	Stock	1/RP88988	1/RP88988
2	RP898480	107620R	LTW	Expired - Can Not Reinstate		4223.MARBU/Marburg Subgroup	GAB24	Great Artesian Basin - Eastern Downs	EAST_2	Eastern Downs 2 Management Unit	70		Balonne-Condamine Basin	Stock Intensive	2/RP898480	2/RP898480
2	RP898480	107620R	LTW	Expired - Can Not Reinstate		4223.MARBU/Marburg Subgroup	GAB24	Great Artesian Basin - Eastern Downs	EAST_2	Eastern Downs 2 Management Unit	70		Balonne-Condamine Basin	Stock Intensive	2/RP898480	2/RP898480
2	RP898480	175204	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	256		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
2	RP898480	175204	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	256		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
2	RP898480	190574	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2	Central Condamine Subarea 2	200		Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502	1363/M34502; 2/RP898480; 3/RP16081; 3683/DER34116; 4/RP208702; 4/SP153098
2	RP898480	33244R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGMA4	Central Condamine Alluvium 4			Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502; 3/DY839419	1/RP37104; 1/RP37116; 1/RP37118; 1/RP37125; 11/DER3418; 1363/M34502; 2/RP37122; 2/RP37125; 2/RP898480; 298/DER3412; 3/DY839419; 3/RP16081; 325/DER3418; 342/DER3424; 360/DER3430; 3683/DER34116; 4/RP208702; 4/RP37121; 4/SP153098; 6/RP37122
2	RP898480	613438	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	90		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
2	RP898480	613438	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	90		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
2	RP898480	613439	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	100		Balonne-Condamine Basin	Stock Intensive	2/RP898480	2/RP898480
2	RP898480	613439	LTW	Expired - Can Not Reinstate		4223.WALLM/Walloon Coal Measures	GAB24	Great Artesian Basin - Eastern Downs	EAST_1	Eastern Downs 1 Management Unit	100		Balonne-Condamine Basin	Stock Intensive	2/RP898480	2/RP898480
2	RP898480	614229	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	120		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
2	RP898480	614229	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	120		Balonne-Condamine Basin	Stock Intensive	2/RP898480; 3/RP16081; 3683/DER34116	2/RP898480; 3/RP16081; 3683/DER34116
2	RP898480	614230	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	100		Balonne-Condamine Basin	Stock Intensive	2/RP898480	2/RP898480
2	RP898480	614230	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	100		Balonne-Condamine Basin	Stock Intensive	2/RP898480	2/RP898480

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1	RP907313	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
2	RP907313	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298	Balonne- Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...

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2	RP907313	34866R	LTW	Under Amendment		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	298		Balonne-Condamine Basin	Irrigation	136/RP84345; 2/RP907313	1/RP14255; 1/RP907313; 10/RP14255; 100/RP14255; 101/RP14255; 102/RP14255; 103/RP14255; 104/RP14255; 105/RP14255; 106/RP14255; 107/RP14255; 108/RP14255; 109/RP14255; 11/RP14255; 110/RP14255; 111/RP14255; 112/RP14255; 113/RP14255; 114/RP14255; 115/RP14255; 116/RP14255; 117/RP14255; 118/RP14255; 119/RP14255; 12/RP14255; 120/RP14255; 121/RP14255; 122/RP14255; 123/RP14255; 124/RP14255; 125/RP14255; 126/RP14255; 127/RP14255; 128/RP14255; 129/RP14255; 13/RP14255; 130/RP14255; 131/RP14255; 132/RP14255; 133/RP14255; 134/RP14255; 135/RP14255; 136/RP14255; 136/RP84345; 137/RP222854; 138/RP222854; 139/RP222854; 14/RP14255; 140/RP222854; 141/RP222854; 142/RP222854; 143/RP222854; 144/RP222854; 145/RP14255; 146/RP14255; 147/RP14255; 148/RP14255; 15/RP222857; 16/RP222857; 17/RP222857; 18/RP222857; 19/RP222857; 2/RP14255; 2/RP907313; 20/RP222857; 21/RP14255; 22/RP14255; 23/RP14255; 24/RP14255; 25/RP14255; 26/RP14255; 27/RP14255; 28/RP14255; 29/RP14255; 3/RP14255; 30/RP14255; 31/RP14255; 32/RP14255; 33/RP14255; 34/RP14255; 35/...
3	RP907313															
4	RP907313															
2	RP91146															
7	RP911941	189068	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	10100		Border Rivers Basin	Irrigation	4/RP208165	34/CP884737; 7/RP911941; 8/SP146067
7	RP911941	189070	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	7/RP911941
7	RP911941	403277	LTW	Issued		4162.GUBBE/Gubberamunda Sandstone	HOORA	Hooray	GUBBERAM	Gubberamunda	50		Border Rivers Basin	Industrial	7/RP911941; 8/RP911941	7/RP911941; 8/RP911941
7	RP911941	403277	LTW	Issued		4162.GUBBE/Gubberamunda Sandstone	HOORA	Hooray	GUBBERAM	Gubberamunda	50		Border Rivers Basin	Industrial	7/RP911941; 8/RP911941	7/RP911941; 8/RP911941
7	RP911941	403278	LTW	Issued		4162.KUMBA/Kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
7	RP911941	403278	LTW	Issued		4162.KUMBA/Kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
7	RP911941	54140H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
7	RP911941	54141H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
7	RP911941	54142H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
7	RP911941	54143H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
7	RP911941	54144H	LTW	Cancelled		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
7	RP911941	54145H	LTW	Expired		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section			Border Rivers Basin	Irrigation; Waterharvesting	1/RP49163; 2/RP216755; 4/RP208165	6/RP911941; 7/RP911941; 8/RP911941
7	RP911941	568008	LTW	Issued		416.01.01/Rainbow Lagoon	BRSWU	Border Rivers Surface Water (GDI) Unsupplemented	BDDMMATR	Macintyre Zone Tributaries			Border Rivers Basin	Relift Water	4/RP208165	7/RP911941
7	RP911941	607055	LTW	Issued		416.01-OLF/Macintyre River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR4MC	Macintyre River Olf Catchment			Border Rivers Basin	Any	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
7	RP911941	607055	LTW	Issued		416.01-OLF/Macintyre River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR4MC	Macintyre River Olf Catchment			Border Rivers Basin	Any	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
2	RP92015	35194R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 2/RP2015; 21/SP209523; 22/SP209523
2	RP92015	407790	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	33		Balonne-Condamine Basin	Dairying; Irrigation	2/RP92015	2/RP92015
2	RP92015	407790	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	33		Balonne-Condamine Basin	Dairying; Irrigation	2/RP92015	2/RP92015

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2	RP92015	66778R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Standby Irrigation	2/RP87871	1/RP142209; 2/RP142209; 2/RP87871; 2/RP92015
2	RP92015	87283R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Domestic Supply; Irrigation; Stock	2/RP87871	1/RP142209; 2/RP142209; 2/RP87871; 2/RP92015
2	RP92662	178561	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
2	RP92662	39234R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	290		Balonne-Condamine Basin	Agriculture	81/A34147	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
2	RP92662	51719R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	180		Balonne-Condamine Basin	Agriculture	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
3	RP92662	178561	LTW	Converted		422.01.35/Condamine River North Branch	CSWMA	Condamine River And Sandy Ck Water Management Area	UCNSD	Unsupplemented Diversions			Balonne-Condamine Basin	Waterharvesting	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
3	RP92662	33232R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	44/RP14252	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
3	RP92662	39234R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	290		Balonne-Condamine Basin	Agriculture	81/A34147	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
3	RP92662	48219R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	2/AG2911	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
3	RP92662	500212	LTW	Expired - Can Not Reinstate		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	133		Balonne-Condamine Basin	Irrigation	44/RP14252; 81/A34147	3/RP92662; 44/RP14252; 81/A34147
3	RP92662	51719R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	180		Balonne-Condamine Basin	Agriculture	44/RP14252	1/RP83028; 2/RP92662; 3/RP92662; 44/RP14252; 81/A34147
3	RP92662	83733R	LTW	Expired - Can Not Reinstate		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A	133		Balonne-Condamine Basin	Irrigation	44/RP14252; 81/A34147	3/RP92662; 44/RP14252; 81/A34147
3	RP92662	87275R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGM3A	Central Condamine Alluvium 3A			Balonne-Condamine Basin	Irrigation	1/RP140000	1/RP140000; 2/AG2911; 3/RP92662; 44/RP14252; 81/A34147
3	RP94591	107335R	LTW	Repealed		4223.HUTTO/Hutton Sandstone	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Monitoring	3/RP94591	3/RP94591
3	RP94591	107335R	LTW	Repealed		4223.HUTTO/Hutton Sandstone	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Monitoring	3/RP94591	3/RP94591
3	RP94591	107336R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Monitoring	3/RP94591	3/RP94591
3	RP94591	107336R	LTW	Repealed		4223.WALLM/Walloon Coal Measures	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Monitoring	3/RP94591	3/RP94591
3	RP94591	18450R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	3/RP94591	3/RP94591
3	RP94591	18450R	LTW	Repealed		4223.NOT/Formation Name Not Specified	TBGWU	Toowoomba Groundwater Unsupplemented	TBTBA	Toowoomba Stock and Domestic Groundwater			Balonne-Condamine Basin	Stock	3/RP94591	3/RP94591
1	RP97506	30082R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	1		Balonne-Condamine Basin	Industrial	1/RP97506	1/RP97506
1	RP97506	30082R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	1		Balonne-Condamine Basin	Industrial	1/RP97506	1/RP97506
2	SP109525	56880H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	2/SP109525	2/SP109525
2	SP109525	56880H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	2/SP109525	2/SP109525
2	SP109525	56881H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	24		Border Rivers Basin	Irrigation	2/SP109525	2/SP109525
2	SP109525	56881H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	24		Border Rivers Basin	Irrigation	2/SP109525	2/SP109525
12	SP116261	107250R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	25		Balonne-Condamine Basin	Irrigation	12/SP116261	12/SP116261
12	SP116261	107250R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	25		Balonne-Condamine Basin	Irrigation	12/SP116261	12/SP116261
12	SP116261	38645R	LTW	Converted		422.01.34.03B/Half Mile Gully	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Water Management Area			Balonne-Condamine Basin	Irrigation	12/SP116261	12/SP116261
12	SP116261	38645R	LTW	Converted		422.01.34.03B/Half Mile Gully	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOC	Gowrie Oakley Creek Water Management Area			Balonne-Condamine Basin	Irrigation	12/SP116261	12/SP116261

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30	SP119042	55338R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	64		Balonne-Condamine Basin	Irrigation	31/SP119042	30/SP119042; 31/SP119042; 32/SP119042; 33/SP119042
31	SP119042	55338R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	64		Balonne-Condamine Basin	Irrigation	31/SP119042	30/SP119042; 31/SP119042; 32/SP119042; 33/SP119042
31	SP119042	55338R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	64		Balonne-Condamine Basin	Irrigation	31/SP119042	30/SP119042; 31/SP119042; 32/SP119042; 33/SP119042
32	SP119042	55338R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	64		Balonne-Condamine Basin	Irrigation	31/SP119042	30/SP119042; 31/SP119042; 32/SP119042; 33/SP119042
2	SP119342	39596R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	10		Balonne-Condamine Basin	Agriculture	2/SP119342	2/SP119342
2	SP119342	39596R	IWA	Converted		422.01.35/Condamine River North Branch	UCIP	Upper Condamine Water Supply Scheme	UC07	Condamine - North Branch	10		Balonne-Condamine Basin	Agriculture	2/SP119342	2/SP119342
61	SP119592	101889	LTW	Expired		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Irrigation	61/SP119592	61/SP119592
61	SP119592	101889	LTW	Expired		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Irrigation	61/SP119592	61/SP119592
61	SP119592	28829H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	502		Border Rivers Basin	Agriculture	61/SP119592	61/SP119592
61	SP119592	28829H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	502		Border Rivers Basin	Agriculture	61/SP119592	61/SP119592
62	SP119592	100392	LTW	Expired		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Irrigation	62/SP119592	62/SP119592
62	SP119592	100392	LTW	Expired		4164.MB/Macintyre Macintyre Brook	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium			Border Rivers Basin	Irrigation	62/SP119592	62/SP119592
62	SP119592	56661H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	62/SP119592	62/SP119592
62	SP119592	56661H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Agriculture	62/SP119592	62/SP119592
62	SP119592	56662H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	400		Border Rivers Basin	Agriculture	62/SP119592	62/SP119592
62	SP119592	56662H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	400		Border Rivers Basin	Agriculture	62/SP119592	62/SP119592
23	SP124720	48317R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	2		Balonne-Condamine Basin	Amenities; Industrial	23/SP124720	23/SP124720
23	SP124720	48317R	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3	Central Condamine Subarea 2 - Transitional Zone 3	2		Balonne-Condamine Basin	Amenities; Industrial	23/SP124720	23/SP124720
3	SP126840	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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3	SP126840	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
5	SP126840	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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5	SP126840	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
7	SP126840	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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7	SP126840	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
8	SP126840	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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8	SP126840	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
14	SP127017	177262	LTW	Issued		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium	10		Border Rivers Basin	Industrial		14/SP127017
8	SP128192	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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8	SP128192	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
35	SP129536	86034H	LTW	Issued		4164.MARBU/Marburg Subgroup	HUTTO	Hutton	S_HUTTON	Surat Hutton	20		Border Rivers Basin	Domestic Supply; Irrigation; Stock	35/SP129536	
71	SP131782	28747H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	245		Border Rivers Basin	Agriculture	2/CP884118; 3/RP202860; 71/SP131782	2/RP84710; 3/RP202860; 71/SP131782
71	SP131782	28747H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	245		Border Rivers Basin	Agriculture	2/CP884118; 3/RP202860; 71/SP131782	2/RP84710; 3/RP202860; 71/SP131782
71	SP131782	28846H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	71/SP131782	71/SP131782
71	SP131782	28846H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	71/SP131782	71/SP131782
71	SP131782	34630H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	71/SP131782	71/SP131782
71	SP131782	34630H	IWA	Repealed		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB04	Whetstone Weir To Ben Dor Weir	0		Border Rivers Basin	Irrigation	71/SP131782	71/SP131782
1	SP134901	100723	LTW	Repealed		4223.MARBU/Marburg Subgroup	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	3/M34842	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...

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1	SP134901	103943	LTW	Repealed		4223.GAB/Condamine - Artesian Sediments	GAB	Great Artesian Basin	GABMM	Gab - Millmerran Shire			Balonne-Condamine Basin	Amenities; Industrial	=LAND/SUPPLIED	1/AP3380; 1/DER34163; 1/RL206840; 1/RL4036; 1/RL4038; 1/RL5040; 1/RL7862; 1/RP106692; 1/RP111214; 1/RP152741; 1/RP16062; 1/RP16093; 1/RP16094; 1/RP193091; 1/RP43591; 1/RP58411; 1/RP63644; 1/RP85766; 1/SP134901; 103/DY1017; 106/DY18; 107/DY18; 108/DY897; 109/DY241; 11/M34842; 113/DY410; 114/DY410; 115/DY410; 13/DY18; 141/ML542; 148/DER34181; 2/DY1006; 2/DY717; 2/M34842; 2/RP106692; 2/RP111214; 2/RP16094; 2/RP16095; 2/RP233820; 2/RP63644; 2/SP126840; 2/SP134901; 27/ML360; 3/M34842; 3/RP233820; 3/SP126840; 3/SP134901; 33/ML542; 3431/DER34100; 3707/DER34121; 3774/DER34131; 3778/DER34132; 3840/DER34142; 3841/DER34142; 3845/DER34142; 3998/DY721; 4/RP22799; 4/SP134901; 40/DY261; 4015/DY716; 4016/DER34164; 4076/DER34167; 41/DY261; 4101/DER34171; 4120/DER34176; 42/ML361; 43/DY287; 44/DY287; 45/DY332; 46/DY332; 47/DY758; 49/DY151; 5/SP126840; 5/SP134901; 54/DY240; 55/DER34193; 55/ML360; 56/DY104; 57/ML296; 58/ML296; 6/SP126840; 7/SP126840; 74/ML296; 75/ML296; 77/DY1; 8/SP126840; 8/SP128192; 82/DY178; 86/ML296; 88/DER34...
84	SP137254	48711H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	84/SP137254	84/SP137254
84	SP137254	48711H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	84/SP137254	84/SP137254
33	SP139977	43462H	LTW	Converted		416.01.12-1/Dumaresq River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	24/MH459	12/MH814062; 24/MH459; 30/MH68; 33/SP139977
33	SP139977	47974H	LTW	Converted		416.01.12-1/Dumaresq River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	1300		Border Rivers Basin	Irrigation	24/MH459	12/MH814062; 24/MH459; 30/MH68; 33/SP139977
33	SP139977	617373	LTW	Issued		416.01.12-1-OLF/Dumaresq River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR3DQ	Dumaresq River Off Catchment			Border Rivers Basin	Any	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977
33	SP139977	617373	LTW	Issued		416.01.12-1-OLF/Dumaresq River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR3DQ	Dumaresq River Off Catchment			Border Rivers Basin	Any	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977	12/MH814062; 24/MH459; 29/MH260; 30/MH260; 30/MH68; 33/SP139977
2	SP142352	100856	LTW	Converted		416.01.12-1/Dumaresq River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	32/SP127017	2/SP142352; 31/MH260; 32/SP127017
8	SP146067	189068	LTW	Converted		416.01/Macintyre River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	10100		Border Rivers Basin	Irrigation	4/RP208165	34/CP884737; 7/RP911941; 8/SP146067
8	SP146067	189071	LTW	Converted		416.01/Macintyre River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	4/RP208165	34/CP884737; 8/SP146067
8	SP146067	403278	LTW	Issued		4162.KUMBA/Kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
8	SP146067	403278	LTW	Issued		4162.KUMBA/Kumbarilla Beds	CADNA	Cadna-owie	BUNGIL	Bungil			Border Rivers Basin	Stock	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
8	SP146067	607055	LTW	Issued		416.01-OLF/Macintyre River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR4MC	Macintyre River Off Catchment			Border Rivers Basin	Any	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
8	SP146067	607055	LTW	Issued		416.01-OLF/Macintyre River Catchment	BROLF	Border Rivers Wrp Overland Flow Area	BR4MC	Macintyre River Off Catchment			Border Rivers Basin	Any	34/CP884737; 7/RP911941; 8/SP146067	34/CP884737; 7/RP911941; 8/SP146067
31	SP146103	19443R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	1		Balonne-Condamine Basin	Irrigation	31/SP146103	31/SP146103
31	SP146103	19443R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	1		Balonne-Condamine Basin	Irrigation	31/SP146103	31/SP146103
4	SP153098	190574	LTW	Issued		4223.CONAA/Condamine River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2	Central Condamine Subarea 2	200		Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502	1363/M34502; 2/RP898480; 3/RP16081; 3683/DER34116; 4/RP208702; 4/SP153098

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4	SP153098	33244R	LTW	Repealed		4223.CONAA/Condamine River Alluvium	CGMA	Central Condamine Alluvium Groundwater Management Area	CGMA4	Central Condamine Alluvium 4			Balonne-Condamine Basin	Irrigation; Stock Intensive	1363/M34502; 3/DY839419	1/RP37104; 1/RP37116; 1/RP37118; 1/RP37125; 11/DER3418; 1363/M34502; 2/RP37122; 2/RP37125; 2/RP898480; 298/DER3412; 3/DY839419; 3/RP16081; 325/DER3418; 342/DER3424; 360/DER3430; 3683/DER34116; 4/RP208702; 4/RP37121; 4/SP153098; 6/RP37122
14	SP154835	16555R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	158		Balonne-Condamine Basin	Any	14/SP154835; 15/SP154835	14/SP154835; 15/SP154835
14	SP154835	16555R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	158		Balonne-Condamine Basin	Any	14/SP154835; 15/SP154835	14/SP154835; 15/SP154835
15	SP154835	16555R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	158		Balonne-Condamine Basin	Any	14/SP154835; 15/SP154835	14/SP154835; 15/SP154835
15	SP154835	16555R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	158		Balonne-Condamine Basin	Any	14/SP154835; 15/SP154835	14/SP154835; 15/SP154835
5	SP158473	176761	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	299		Balonne-Condamine Basin	Irrigation	2/RP36663; 5/SP158473	2/RP116140; 2/RP174845; 2/RP36663; 3/SP158473; 5/SP158473; 6/SP158473
5	SP158473	176761	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	299		Balonne-Condamine Basin	Irrigation	2/RP36663; 5/SP158473	2/RP116140; 2/RP174845; 2/RP36663; 3/SP158473; 5/SP158473; 6/SP158473
5	SP158473	181061	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP36663; 5/SP158473	2/RP174845; 2/RP36663; 3/SP158473; 5/SP158473
5	SP158473	181061	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP36663; 5/SP158473	2/RP174845; 2/RP36663; 3/SP158473; 5/SP158473
5	SP158473	185058	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	73		Balonne-Condamine Basin	Irrigation	5/SP158473	5/SP158473
5	SP158473	185058	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	73		Balonne-Condamine Basin	Irrigation	5/SP158473	5/SP158473
5	SP158473	87523R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	5/SP158473	2/RP116140; 2/RP36663; 3/SP158473; 5/SP158473; 6/SP158473
5	SP158473	87523R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	5/SP158473	2/RP116140; 2/RP36663; 3/SP158473; 5/SP158473; 6/SP158473
6	SP158473	176761	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	299		Balonne-Condamine Basin	Irrigation	2/RP36663; 5/SP158473	2/RP116140; 2/RP174845; 2/RP36663; 3/SP158473; 5/SP158473; 6/SP158473
6	SP158473	87523R	LTW	Surrendered		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	5/SP158473	2/RP116140; 2/RP36663; 3/SP158473; 5/SP158473; 6/SP158473
4	SP168053	603982	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	13		Balonne-Condamine Basin	Irrigation	4/SP168053	4/SP168053
4	SP168053	603982	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	13		Balonne-Condamine Basin	Irrigation	4/SP168053	4/SP168053
4	SP168053	83335R	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	13		Balonne-Condamine Basin	Irrigation	1/SP168053; 2/SP168053; 4/SP168053	1/SP168053; 2/SP168053; 4/SP168053
4	SP168053	83335R	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	13		Balonne-Condamine Basin	Irrigation	1/SP168053; 2/SP168053; 4/SP168053	1/SP168053; 2/SP168053; 4/SP168053
58	SP169187	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP26715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
58	SP169187	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
90	SP169187	102252	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	300		Border Rivers Basin	Agriculture	90/SP169187	90/SP169187
90	SP169187	102252	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	300		Border Rivers Basin	Agriculture	90/SP169187	90/SP169187
54	SP169191	102115	LTW	Converted		416.01.12-1/Dumaresq River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	17		Border Rivers Basin	Domestic Supply; Irrigation; Stock	2/RP170889	54/SP169191
54	SP169191	77298H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244
54	SP169191	77298H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244
55	SP169191	102116	LTW	Converted		416.01.12-1/Dumaresq River	DRIP	Dumaresq River Project	DRREG	Drip - Dumaresq Regulated Section	548		Border Rivers Basin	Irrigation; Stock Intensive	2/RP170889; 59/SP134244	55/SP169191; 56/MH235; 59/SP134244
55	SP169191	102118	LTW	Converted		416.01.12-1/Dumaresq River	DUWMA	Dumaresq River Water Management Area	DRNSD	Unsupplemented Diversions			Border Rivers Basin	Waterharvesting	2/RP170889	55/SP169191; 59/SP134244
55	SP169191	13989H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	55/SP169191	55/SP169191
55	SP169191	13989H	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda			Border Rivers Basin	Stock	55/SP169191	55/SP169191
55	SP169191	77298H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244
55	SP169191	77298H	LTW	Expired		4162.MACRI/Macintyre River Alluvium	BRABR	Border Rivers Alluvium	BRMRA	Macintyre River Alluvium			Border Rivers Basin	Domestic Supply; Irrigation; Stock	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244	54/SP169191; 55/SP169191; 56/MH235; 59/SP134244
5	SP169819	617417	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	20		Balonne-Condamine Basin	Any	5/SP169819	5/SP169819
5	SP169819	617417	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	20		Balonne-Condamine Basin	Any	5/SP169819	5/SP169819
72	SP173128	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
72	SP173128	28833H	IWA	Converted		416.01.12.03/Macintyre Brook	MBIP	Macintyre Brook Water Supply Scheme	MB03	Greenup Weir To Whetstone Weir	2462		Border Rivers Basin	Agriculture; Stock Intensive	1/MH461; 2/MH461; 2/MH784; 2/RP147969; 58/SP169187; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 7/MH286; 70/MA3454; 72/SP173128; 74/MA3455; 8/MH286; 9/MH291	1/MH171; 1/MH461; 1/RP147969; 12/MH293; 2/MH461; 2/MH784; 2/RP147969; 3/MH194; 511/RP226715; 58/SP169187; 59/MH298; 6/MH194; 63/MA3456; 64/MA3456; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 70/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291

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72	SP173128	77050H	LTW	Issued		4164.MACIN/Macintyre Brook Alluvium	BRABR	Border Rivers Alluvium	BRMBA	Macintyre Brook Alluvium	169		Border Rivers Basin	Stock Intensive	67/MA3454; 9/MH291	1/MH171; 1/RP147969; 2/RP147969; 65/MA3454; 66/MA3454; 67/MA3454; 69/MA3454; 72/SP173128; 73/MA3455; 74/MA3455; 75/MA3455; 8/MH286; 9/MH291
20	SP184200	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
20	SP184200	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
21	SP184200	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
21	SP184200	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
5	SP194159	405252	LTW	Issued		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit			Border Rivers Basin	Stock	1/SP204014; 5/SP194159	1/SP204014; 5/SP194159
5	SP194159	405252	LTW	Issued		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit			Border Rivers Basin	Stock	1/SP204014; 5/SP194159	1/SP204014; 5/SP194159
177	SP203223	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOE	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG879; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
177	SP203223	29384R	LTW	Converted		422.01.34.03.01/Gowrie Creek	GOCWMA	Gowrie Oakley Creek Water Management Area	TBGOE	Gowrie Oakley Creek Management Area			Balonne-Condamine Basin	Irrigation	154/AG879; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 194/AG2428; 48/SP203223; 59/AG881; 91/SP195966	144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG879; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 91/SP195966
177	SP203223	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	350		Balonne-Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 151/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG879; 156/AG880; 157/AG880; 158/AG880; 159/AG881; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 194/AG2428; 2/RP77571; 48/SP203223; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966
1	SP204014	405252	LTW	Issued		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit			Border Rivers Basin	Stock	1/SP204014; 5/SP194159	1/SP204014; 5/SP194159
1	SP204014	405252	LTW	Issued		4164.MARBU/Marburg Subgroup	GAB21	Great Artesian Basin - Surat East	SURA_E3	Surat East 3 Management Unit			Border Rivers Basin	Stock	1/SP204014; 5/SP194159	1/SP204014; 5/SP194159
4	SP204071	11376H	LTW	Expired - Can Not Reinstate		4164.WALLO/Walloon Coal Measures	GAB21	Great Artesian Basin - Surat East	SURA_E2	Surat East 2 Management Unit			Border Rivers Basin	Stock	3/SP204071; 4/SP204071	3/SP204071; 4/SP204071
4	SP204071	11376H	LTW	Expired - Can Not Reinstate		4164.WALLO/Walloon Coal Measures	GAB21	Great Artesian Basin - Surat East	SURA_E2	Surat East 2 Management Unit			Border Rivers Basin	Stock	3/SP204071; 4/SP204071	3/SP204071; 4/SP204071
4	SP204071	615806	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	4/SP204071	4/SP204071
4	SP204071	615806	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	4/SP204071	4/SP204071
2	SP209416	185059	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Irrigation	2/RP36663	1/SP209416; 2/RP36663; 2/SP209416
2	SP209416	406839	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	64		Balonne-Condamine Basin	Irrigation	2/SP209416	2/SP209416
2	SP209416	406839	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	64		Balonne-Condamine Basin	Irrigation	2/SP209416	2/SP209416
22	SP209510	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510

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22	SP209510	181795	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	15		Balonne-Condamine Basin	Amenities; Irrigation	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510	2/RP70945; 20/SP184200; 21/SP184200; 22/SP209510
21	SP209523	35194R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 2/RP92015; 21/SP209523; 22/SP209523
21	SP209523	35194R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 2/RP92015; 21/SP209523; 22/SP209523
21	SP209523	407791	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	72		Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 21/SP209523; 22/SP209523
21	SP209523	407791	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	72		Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 21/SP209523; 22/SP209523
21	SP209523	613475	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	21/SP209523	21/SP209523
21	SP209523	613475	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	5		Balonne-Condamine Basin	Irrigation	21/SP209523	21/SP209523
22	SP209523	35194R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 2/RP92015; 21/SP209523; 22/SP209523
22	SP209523	35194R	LTW	Repealed		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater			Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 2/RP92015; 21/SP209523; 22/SP209523
22	SP209523	407791	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	72		Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 21/SP209523; 22/SP209523
22	SP209523	407791	LTW	Expired - Can Not Reinstate		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	72		Balonne-Condamine Basin	Dairying; Irrigation	21/SP209523; 22/SP209523	2/RP142209; 21/SP209523; 22/SP209523
22	SP209523	613477	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	67		Balonne-Condamine Basin	Irrigation		22/SP209523
1	SP214649	16254H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	1/SP214649; 2/SP214649	1/SP214649; 2/SP214649
1	SP214649	16254H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	1/SP214649; 2/SP214649	1/SP214649; 2/SP214649
2	SP214649	16254H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	1/SP214649; 2/SP214649	1/SP214649; 2/SP214649
2	SP214649	16254H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	1/SP214649; 2/SP214649	1/SP214649; 2/SP214649
4	SP215309	17488R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation; Stock Intensive	17/RP24607; 5/SP215309	17/RP24607; 4/SP215309; 5/SP215309; 6/SP215309
5	SP215309	17488R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation; Stock Intensive	17/RP24607; 5/SP215309	17/RP24607; 4/SP215309; 5/SP215309; 6/SP215309
5	SP215309	17488R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation; Stock Intensive	17/RP24607; 5/SP215309	17/RP24607; 4/SP215309; 5/SP215309; 6/SP215309
6	SP215309	17488R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation; Stock Intensive	17/RP24607; 5/SP215309	17/RP24607; 4/SP215309; 5/SP215309; 6/SP215309
2	SP225174	616106	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	6		Balonne-Condamine Basin	Any	2/SP225174	2/SP225174
2	SP225174	616106	LTW	Issued		4223.MARBU/Marburg Subgroup	HUTTO	Hutton	ED_MARB	Eastern Downs Marburg	6		Balonne-Condamine Basin	Any	2/SP225174	2/SP225174
11	SP254028	37846R	LTW	Issued		4223.CONAA/Condamin e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3S	Central Condamine Subarea 2 - Transitional Zone 3 - Group 5	74		Balonne-Condamine Basin	Irrigation	11/SP254028	11/SP254028
11	SP254028	37846R	LTW	Issued		4223.CONAA/Condamin e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2-3S	Central Condamine Subarea 2 - Transitional Zone 3 - Group 5	74		Balonne-Condamine Basin	Irrigation	11/SP254028	11/SP254028
14	SP254028	30805R	LTW	Issued		4223.CONAA/Condamin e River Alluvium	UCACCA	Upper Condamine Alluvium (Central Condamine Alluvium)	CCA2U	Central Condamine Subarea 2 - Urban	450		Balonne-Condamine Basin	Urban	14/SP254028; 2/RP104524; 2/RP53442; 2/RP92200; 9/RP37106	
3	SP254028	51819R	LTW	Issued		422.01+/Unnamed Tributary of Condamine River	CBTWMA	Condamine Balonne Tributaries Water Management Area	CBTM06	Condamine Balonne Tributaries Zone 6			Balonne-Condamine Basin	Irrigation	3/RP37108	3/RP37108; 3/SP254028; 6/RP37106; 9/RP37106
7	SP263894	608961	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	60		Balonne-Condamine Basin	Irrigation	7/SP263894	7/SP263894
7	SP263894	608961	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	60		Balonne-Condamine Basin	Irrigation	7/SP263894	7/SP263894

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
8	SP263894	608962	LTW	Expired - Can Not Reinstated		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	30		Balonne-Condamine Basin	Irrigation	8/SP263894; 9/SP263894	8/SP263894; 9/SP263894
8	SP263894	608962	LTW	Expired - Can Not Reinstated		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	30		Balonne-Condamine Basin	Irrigation	8/SP263894; 9/SP263894	8/SP263894; 9/SP263894
8	SP263894	610366	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	25		Balonne-Condamine Basin	Irrigation	8/SP263894	8/SP263894
8	SP263894	610366	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	25		Balonne-Condamine Basin	Irrigation	8/SP263894	8/SP263894
11	SP272154	400511	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	128		Balonne-Condamine Basin	Any	2/RP49965	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 2/AG2014; 2/RP49965; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105
11	SP272154	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne-Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 14/SP296105; 17/D3590; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105; 9/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105
11	SP272154	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne-Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 14/SP296105; 17/D3590; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105; 9/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105
11	SP272154	71126R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Any	1/RP24615	1/RP24615; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 5/SP296105; 6/SP296105; 8/SP296105; 800/SP296105
A	SP274206	14379H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	A/SP274206	A/SP274206
A	SP274206	14379H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	A/SP274206	A/SP274206
A	SP274206	14380H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	A/SP274206	A/SP274206
A	SP274206	14380H	LTW	Issued		4164.WALLO/Walloon Coal Measures	SPRIW	Springbok Walloon	S_SP_W	Surat Springbok Walloon			Border Rivers Basin	Stock	A/SP274206	A/SP274206
9	SP285304	83220R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	60		Balonne-Condamine Basin	Irrigation	9/SP285304	1/RP204251; 9/SP285304
9	SP285304	83220R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	60		Balonne-Condamine Basin	Irrigation	9/SP285304	1/RP204251; 9/SP285304
11	SP285307	34059R	LTW	Under Amendment		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	350		Balonne-Condamine Basin	Irrigation	91/SP195966	1/SP272971; 11/SP285307; 144/AG879; 145/AG879; 146/AG879; 147/AG879; 148/AG879; 149/AG879; 150/AG879; 152/AG879; 153/AG879; 154/AG879; 155/AG3111; 156/AG880; 157/AG880; 160/AG881; 161/AG881; 177/SP203223; 181/AG880; 182/AG881; 194/AG2428; 58/AG3088; 59/AG881; 69/AG2572; 7/SP294196; 80/SP294196; 91/SP195966
8	SP294236	400919	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation	8/SP294236	8/SP294236
8	SP294236	400919	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	70		Balonne-Condamine Basin	Irrigation	8/SP294236	8/SP294236
6	SP296105	400511	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	128		Balonne-Condamine Basin	Any	2/RP49965	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 2/AG2014; 2/RP49965; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 75/SP296105; 8/SP296105; 800/SP296105

RequestedLot	RequestedPlan	Authorisation Reference	Authorisation TypeShort Desc	AuthorisationStatusDesc	Water Allocation GroupDescription	WaterCode SourcesList	Management GroupCode	Management Group	Management SubgroupCode	Management Subgroup	Nominal Entitlement PerWater YearML	Volumetric LimitsList	BasinList	AuthorisedPurposeList	Location LandList	Attached LandList
6	SP296105	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne-Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 8/SP296105; 800/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 8/SP296105; 800/SP296105
6	SP296105	48147R	LTW	Issued		4223.WALLM/Walloon Coal Measures	SPRIW	Springbok Walloon	ED_SP_W	Eastern Downs Springbok Walloon	194		Balonne-Condamine Basin	Any	11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 8/SP296105; 800/SP296105	1/RP36568; 1/SP296105; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 17/D3590; 171/SP269293; 2/SP296105; 250/D35274; 3/SP296105; 4/SP296105; 5/SP296105; 6/SP296105; 7/SP296105; 8/SP296105; 800/SP296105
6	SP296105	71126R	LTW	Issued		4223.MAIN/Main Range Volcanics	UCBASLT	Upper Condamine Basalts	TBSBG	Toowoomba South Basalts Groundwater	26		Balonne-Condamine Basin	Any	1/RP24615	1/RP24615; 11/SP272154; 12/SP296105; 13/SP296105; 14/SP296105; 5/SP296105; 6/SP296105; 8/SP296105; 800/SP296105
2	Y56916	405200	LTW	Issued		4162.KUMBA/Kumbarilla Beds	HOORA	Hooray	GUBBERAM	Gubberamunda	200		Border Rivers Basin	Town Water Supply	2/Y56916	
2	Y56916	77266H	LTW	Expired		4164.AB/Macintyre Artesian	GAB21	Great Artesian Basin - Surat East	SURA_E1	Surat East 1 Management Unit			Border Rivers Basin	Town Water Supply	2/Y56916; YELARBON	