



Ordinary meeting business paper

Wednesday, 14 December 2022

commencing 10.00 am

Rous Administration Centre (L4), 218-232 Molesworth Street, Lismore

In accordance with clause 5.21 of the *Local Government Act 1993*, attendees at today's Council meeting are advised that this meeting is being 'live' streamed (except for the confidential session).

- All speakers should refrain from making any defamatory comments or releasing any personal information about another individual without their consent.
- Council accepts no liability for any damage that may result from defamatory comments made by persons attending meetings. All liability will rest with the individual who made the comments.
- This meeting must not be recorded by others without the prior written consent of the Council in accordance with Council's Code of Meeting Practice.

AGENDA

1. Opening of the meeting

2. Acknowledgement of Country

Rous County Council acknowledges the Traditional Custodians of the land upon which we work and live. We pay our respects to the Elders of the past, present and emerging and acknowledge their continuing connection to Country who will guide us on our shared journey to the future.

3. Apologies and applications for a leave of absence or attendance by audio-visual link by councillors

4. Confirmation of Minutes of previous meeting

Ordinary Council meeting 19 October 2022..... 1 - 6

5. Disclosure of Interest

6. Matters of urgency

7. Notices of motion / Questions with notice - Nil

8. General Manager reports - Nil.

9. Group Manager Corporate and Commercial reports

- 9.1 Retail Water Customer Account Assistance 7
- 9.2 Retail Water Bad Debt Write-off 8 - 10
- 9.3 Digital Strategy and Digital Transformation 11 - 19
- 9.4 Annual Financial Reports and Auditor's report for the year ending 30 June 2022 20 - 21
-

10.	Group Manager Planning and Delivery reports	
10.1	Development Servicing Plan 2022	22 - 139
10.2	Purified Recycled Water Pilot Plant	140 - 143
10.3	Future Water Project Stage 1 - Alstonville Groundwater Scheme Land Matters	144 - 147
11.	Group Manager People and Performance reports	
11.1	Strategic options and management of risk: flood mitigation	148 - 152
12.	Policies	
12.1	Policy: Customer feedback, complaints and unreasonable conduct	153 - 159
13.	Information reports (cover report)	160 - 161
13.1	Investments - November 2022	162 - 169
13.2	Water consumption - October 2022	170 - 183
13.3	Reports/Actions pending	184 - 185
13.4	Annual 'Model Code of Complaint Statistics'	186 - 188
13.5	Audit Risk and Improvement Committee 28 November 2022 - meeting update	189 - 200
13.6	Licence Agreement: Ngulingah Local Aboriginal Land Council - Level 2, 218-232 Molesworth Street, Lismore	201 - 202
13.7	Disclosure of Interest Returns	203
13.8	Draft Far North Coast Regional Water Strategy - shortlisted actions - consultation paper - Council submission	204
14.	Confidential cover report	205
15.	Confidential matters	
15.1	Future Water Project Stage 1 - Woodburn Groundwater Scheme Land Matters	206 - 209
16.	Close of business	

MINUTES OF THE ORDINARY MEETING OF ROUS COUNTY COUNCIL HELD ON WEDNESDAY, 19 OCTOBER 2022 AT THE ADMINISTRATION OFFICE, 218-232 MOLESWORTH STREET, LISMORE.

1 OPENING OF THE MEETING

The Chair opened the meeting at 10.03 am.

In attendance:

Councillors:

- Cr Robert Mustow – Chair (Richmond Valley Council)
- Cr Sharon Cadwallader – Deputy Chair (Ballina Shire Council)
- Cr Rod Bruem (Ballina Shire Council)
- Cr Michael Lyon (Byron Shire Council)
- Cr Sarah Ndiaye (Byron Shire Council) arrived at 10.15am
- Cr Andrew Gordon (Lismore City Council)
- Cr Big Rob (Lismore City Council)
- Cr Sandra Humphrys (Richmond Valley Council)

Council staff:

- Phil Rudd (General Manager)
- Adam Nesbitt (Group Manager Operations)
- Andrew Logan (Group Manager Planning and Delivery)
- Helen McNeil (Group Manager People and Performance)
- Geoff Ward (A/Group Manager Corporate and Commercial)
- Guy Bezrouchko (Project Manager - Relocation and Properties)
- Jonathan Patino (Finance Business Partner)
- Kirralee Donovan (Water Sustainability Officer) (*for Item 10.2*)
- Noeline Smith (Minute Taker)
- Luka Taylor (IT Support)

Other attendee (via 'Teams):

- Richard Watkinson (Thomas Noble and Russell, on behalf of the Audit Office of NSW) to present on the *Annual Financial Reports and Audit Report for year ending 30 June 2022* report - Item 9.4.

2 ACKNOWLEDGEMENT OF COUNTRY

Council showed its respect and acknowledged the Traditional Custodians of the Land, of all Elders, on which this meeting took place.

3 APOLOGIES AND APPLICATIONS FOR A LEAVE OF ABSENCE OR ATTENDANCE BY AUDIO-VISUAL LINK BY COUNCILLORS

Nil.

4 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RESOLVED [61/22] (Cadwallader/Rob) that the Minutes of the Ordinary Meeting held 17 August 2022 be accepted as presented.

Confirmation of Minutes of previous meeting (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, and Cr Big Rob	7
Against	None	0
Conflict of Interests	None	0
Absent	Cr Sarah Ndiaye	1
Carried		

5 DISCLOSURE OF INTEREST

Nil.

6 CHAIR'S MINUTE

i) Her Majesty Queen Elizabeth II

RESOLVED [62/22] (Mustow/Cadwallader) that Council receive and note the Mayor's Minute as presented, and endorse the Foreshadowed Motion as written.

FORESHADOWED MOTION

Moved Cr Cadwallader that Council acknowledges the visit by the Anglican Archbishop of Canterbury, Justin Welby, who recently visited Lismore and the Northern Rivers area to tour the region following the devastating March 2022 floods. The Archbishop's visit was very much appreciated by the community. It would be appropriate for Rous to send a card of appreciation to the Archbishop.

(Foreshadowed Motion action included in Resolution 62/22).

Chair's Minute - Her Majesty Queens Elizabeth II (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow and Cr Big Rob	7
Against	None	0
Conflict of Interests	None	0
Absent	Cr Sarah Ndiaye	1
Carried		

7 NOTICES OF MOTION / QUESTIONS WITH NOTICE

Nil.

8 GENERAL MANAGER REPORTS

8.1 Council Meeting Schedule 2023

RESOLVED [63/22] (Rob/Cadwallader) that Council determine its meeting schedule for 2023 with meetings to be held on the third Wednesdays commencing 10.00am at the Rous County Council Administration Office on:

15 February	19 April	18 October
21 June	16 August	13 December

Council meeting schedule 2023 (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow and Cr Big Rob	7
Against	None	0
Conflict of Interests	None	0
Absent	Cr Sarah Ndiaye	1
Carried		

8.2 Review of Organisation Structure

RESOLVED [64/22] (Rob/Cadwallader) that Council endorse the organisation structure as referenced in the body of the report.

Review of organisation structure (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow and Cr Big Rob	7
Against	None	0
Conflict of Interests	None	0
Absent	Cr Sarah Ndiaye	1
Carried		

9 GROUP MANAGER CORPORATE AND COMMERCIAL REPORTS

9.1 Quarterly Budget Review Statement for the Quarter Ending 30 September 2022

RESOLVED [65/22] (Lyon/Bruem) that Council note the results presented in the Quarterly Budget Review Statement as at 30 September 2022 and authorise the variations to the amounts from those previously estimated.

Cr Ndiaye arrived 10.13am during consideration of the above report.

Quarterly Budget Review Statement for the quarter ending 30 September 2022 (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

9.2 Declassification of Business Activity from Financial Statements

RESOLVED [66/22] (Bruem/Lyon) that:

1. Council declassify the business activities of Land development and Commercial properties.

2. The declassification be effective from 1 July 2022.
3. Following declassification, only Water activities will be reported in the Special Purpose Financial Statements.

Declassification of Business Activity from Financial Statements (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

9.3 Retail Water Customer Account Assistance

RESOLVED [67/22] (Cadwallader/Gordon) that Council in accordance with section 356 (1) of the *Local Government Act 1993* and its 'Retail Water Customer Account Assistance' policy, approve financial assistance as listed in Table 1 of the report.

Retail water customer account assistance (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

LATE REPORT

Richard Watkinson, Thomas Noble & Russell, presented on the following report:

9.4 Annual Financial Reports and Audit Report for Year Ending 30 June 2022

RESOLVED [68/22] (Cadwallader/Rob) that Council:

1. In accordance with section 413 (2c) of the *Local Government Act 1993* and clause 215 of the *Local Government (General) Regulation 2021*, adopt the 2021/22 Audited Financial Reports and "Statement by Councillors and Management" for both the General-Purpose Financial Reports and the Special Purpose Financial Reports, with the Chairperson and Deputy Chairperson delegated to sign on behalf of Council.
2. Note that public notice for the presentation of the 2021/22 Financial Reports will be issued on Friday, 21 October 2022.
3. Forward a copy of the 2021/22 Audited Financial Reports to the Office of Local Government.
4. Present the 2021/22 Audited Financial Reports to the public at Council's 14 December 2022 meeting.

Cr Bruem left the meeting at 11.55am and returned at 11.58am during discussion of the above report.

Cr Ndiaye left the meeting at 12.02pm and returned at 12.05pm during discussion of the above report.

Annual Financial Reports and Audit Report for year ending 30 June 2022 (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

10 GROUP MANAGER PLANNING AND DELIVERY REPORTS

10.1 Deferral of Developer Contributions: The Buttery

RESOLVED [69/22] (Ndiaye/Cadwallader) that Council, under clause 2.5 of Council's Development Servicing Plan for Bulk Water Supply 2016, approve the deferral of the Rous County Council developer contributions, payable by *The Buttery Limited* in relation to their proposed water service connection.

Deferral of developer contributions: The Buttery (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

10.2 Adoption of Rous Regional Demand Management Plan 2023-2026

RESOLVED [70/22] (Bruem/Cadwallader) that Council:

1. Receive and note the 33 public submissions lodged during the public exhibition period outlined in the report.
2. Adopt the '*Rous Regional Demand Management Plan (2023-2026)*' and the supporting document that provides background information to the Plan, '*Regional Demand Management Plan Review and Update - Background Information and Recommended Plan Components*' as presented at Council's workshop held on 20 July 2022.

Adoption of Rous Regional Demand Management Plan 2023-2026 (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow and Cr Big Rob	7
Against	Cr Sarah Ndiaye	1
Conflict of Interests	None	0
Abstain	None	0
Carried		

10.3 Establishing an Engagement Space at the Molesworth Street Premises

RESOLVED [71/22] (Rob/Cadwallader) that Council:

1. Agree to not sub-let the former NRMA space on Level 2 Molesworth Street for the remainder of Rous' approximate 18 months on the site.
2. Approve the use of a portion of the budget allocation for the former RCEIC for 2022/23 to establishing this new space in the shopfront area on Level 2 as an engagement space across Rous's respective service delivery areas.

Establishing an engagement space at the Molesworth Street premises (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

11 INFORMATION REPORTS

11.1 Investments - September 2022

RESOLVED [72/22] (Lyon/Ndiaye) that the report be received and noted.

11.2 Demand Management Status Report and Scorecard 2021/2022

RESOLVED [73/22] (Cadwallader/Bruem) that Council receive and note:

1. The progress and outcomes of demand management deliverables for the 2021-2022 financial year (final year of the current plan) including budget expenditure.
2. Successes, challenges, and learnings of the Regional Demand Management Plan 2019-2022.

Demand Management Status Report and Scorecard 2021/2022 (Resolution)		
For	Cr Rod Bruem, Cr Sharon Cadwallader, Cr Andrew Gordon, Cr Sandra Humphrys, Cr Michael Lyon, Cr Robert Mustow, Cr Sarah Ndiaye and Cr Big Rob	8
Against	None	0
Conflict of Interests	None	0
Abstain	None	0
Carried		

12 CLOSE OF BUSINESS

There being no further business the meeting closed at 12.30 pm.

Retail water customer account assistance

Responsible Officer: Group Manager Corporate & Commercial (Geoff Ward)

Recommendation

That Council in accordance with section 356 (1) of the *Local Government Act 1993* and its 'Retail Water Customer Account Assistance' policy, approve financial assistance as listed in Table 1 of this report.

Background

One application for financial assistance in accordance with section 356 (1) under Council's 'Retail Water Customer Account Assistance' policy has been received. Details of the application are set out below.

Table 1

Section 356 (non pensioner)					
Account	Date application received	Nature of leak	Original water charges due	S356 financial assistance to be approved	Adjusted water charges due after approval
10795-10000-6	24-Oct-22	Underground leaks could not be located, replaced all pipes	\$2,020.52	\$493.13	\$1,527.39
Total			\$2,020.52	\$493.13	\$1,527.39

Finance

The 2022/23 financial year budget allocation for applications made in accordance with the 'Retail Water Customer Account Assistance' policy is \$25,000.

Budget Table S356/S582		
2022/23 financial year budget	\$25,000.00	<u>No. of applications</u>
S356 assistance approved financial year to date	\$18,235.77	6
S582 assistance approved financial year to date	\$0.00	
S582 assistance approved since last Council meeting	\$0.00	
Proposed S356 assistance approval this Council meeting	\$493.13	1
Proposed S582 assistance approval this Council meeting	\$0.00	
Budget remaining 2022/23 financial year	\$6,271.10	

Legal

Section 377(q) of the *Local Government Act 1993* provides that a decision under section 356 to contribute money or otherwise grant financial assistance may not be delegated and that the decision must be made by resolution of Council.

Conclusion

The total value of section 356 financial assistance equates to \$ 493.13 by application of Council's 'Retail Water Customer Account Assistance' policy. It is proposed that Council grant the recommended financial assistance.

Retail Water Bad Debt Write-off

Responsible Officer: Group Manager Corporate and Commercial (Geoff Ward)

Recommendation

That Council approve a request for the write-off of \$18,240.79 in water charges from the SES Capital Pty Ltd water account in relation to the property at 61 Caniaba Road, Loftville due to the reasons outlined in the report.

Background

The amount above which debts may be written off only by resolution of Council is fixed at \$5,000 (inc. GST) (resolution [50/22]).

Council may only write-off rates and charges that meet the following criteria set out in the *Local Government (General) Regulation 2021*:

1. There is an error in the assessment;
2. The amount is not lawfully recoverable;
3. As a result of a decision of a court; or
4. Council believes on reasonable grounds it would not be cost effective to attempt to recover the amount.

Key points

- A cyble unit (electronic data transmission unit on a physical meter) malfunctioned, meaning accurate water usage was not recorded for billing.
- The property was sold during the period the cyble unit was not working. Meaning the information reported in the section 603 certificate was calculated on the wrong baseline, resulting in an undercharge to the previous owner on transfer.
- Requesting write-off for the water use attributable to the previous owner.

Event timeline

- The retail meter in question relates to a caravan park, meaning volumetric water usage is high.
- The property was sold on 20 September 2021. A section 603 certificate was provided, calculated on estimated daily usage from the last water bill.
- In October 2021, the water meter returned a nil read.
- A subsequent nil read was recorded in January 2022.
- The meter reader manually checked the water meter per the Standard Operating Procedure and discovered the cyble unit (electronic data transmission unit attached to the physical meter) had malfunctioned, and was not reporting the correct meter reading.
- The meter and cyble unit were replaced at this time.
- Upon further investigation it was discovered the cyble unit would have stopped working sometime between April and July 2021, prior to the property being sold.
- The property was impacted by the March flood events, meaning the billing information was not representative of historic usage patterns.

Write-off proposal

As the cyble unit’s malfunction was not the purchaser’s fault and the section 603 certificate was produced by Council it is inappropriate to recoup the entire outstanding amount from the new owner. Hence, it is proposed the outstanding (catch-up) value is pro-rated to the new owner, and the proportion that would have been attributed to the previous owner is written off.

- The new owner’s usage for the period from 20/09/2021 to 15/02/2022 (148 days) has been estimated based on the average daily usage for the same period in the previous year.
- This period’s average daily usage to calculate the estimated usage has been selected as the first full period of accurate usage recorded was between 15/02/2022 to 19/4/2022 which was during the 2022 floods.

The proposed credit adjustment for this property is \$18,240.79

Actual charge	\$ 30,484.33
<u>Less estimated charge</u>	<u>\$ 12,243.54</u>
Write-off	\$ 18,240.79

The write-off of \$18,240.79 includes the previous owner’s usage (estimated at \$17,466.57). Under the circumstances listed above, charging the previous owner the \$17,466.57 is not an option as they are no longer the owner of this property and there is no evidence to confirm their usage.

Recourse to vendor and process improvements

- The cyble units are no longer under warranty, so the vendor has no liability for their malfunction. The maintenance contract with the vendor (Itron) concluded in June 2021, with the vendor unable to provide further support given the age of the hardware (~10 years plus).
- The cyble units and physical meters will all be replaced as part of the in-flight Smart Metering project.
- From a process perspective, there was a failure to follow the existing SOP, and manually check the October nil reading, this would not have materially altered the outcome though, as the sale had already occurred.
- Post the 2022 flood events all physical meters are being read / checked to the cyble units. This control was implemented based on the potential damage incurred due to the floods, however this control will be effective in ensuring a situation such as this is discovered in a timely manner.
- Once the smart metering project is implemented there are automated controls that can be implemented to prevent a similar event.

Property Reference	Credit Adjustment	Recommendation
11743-10000-7 (Lot 5 DP706370)	Full Charge = \$30,484.33 Less estimated charges of \$12,243.54 = \$18,240.79	Credit of \$18,240.79 (based on average daily use from the same period in the previous year)

Finance

Detailed within this report.

Legal

The proposal has been assessed against the write-off criteria under clause 131 of the *Local Government (General) Regulation 2021* and it satisfies the requirements of that provision.

Consultation

A report was presented to the Audit, Risk and Improvement Committee on 28 November 2022 to notify them of the factors and processes contributing to this write-off request and the actions being taken to reduce the likelihood of a recurrence in the future.

Conclusion

It is recommended that Council approve the write-off of \$18,240.79 due to the error in assessment of water usage by the previous and current property owners caused by the malfunctioning cyble unit.

Digital Strategy and Digital Transformation

Responsible Officer: Group Manager Corporate and Commercial (Geoff Ward)

Recommendation

That Council:

1. Endorse the Digital Strategy attached to this report, and
2. Note the commencement of the Digital Transformation program of work.

Background

Management have endorsed a Digital Strategy (Strategy) that sets out the high-level strategic direction for investment into digital systems in the coming years. This strategy was developed with reference to Council's broader strategy and to address items identified in Council's recent Corporate Systems Review.

It is proposed that Council's core 'corporate' information systems and accompanying business processes are upgraded and improved through a program of work referred to as 'Digital Transformation'.

- **Digital Strategy Overview**

The Corporate Systems Review highlighted that Council approached technology solutions in an ad hoc fashion. This approach caused issues with solution integration, information access, and poor user experience, resulting in poor decision-making and inefficient business processes. The Digital Strategy aims to address these issues.

The Digital Strategy provides a framework to deliver outcomes that protect the region's environment, deliver Council operations in a sustainable manner, and ensure that continuous improvement and innovation are core to Council systems and business processes.

To meet these objectives Council will implement principles for the design and delivery of technology initiatives. The Strategy proposes to implement a user centred approach, identify the root cause of the issues, redesign our processes to suit the technology instead of digitising the paper process, simplify systems and processes and deliver meaningful insights. Additionally, the Strategy will utilise technology guidelines to ensure digital solutions are secure, modern, will maximise our investment and are considered best practise in conjunction with the design principles.

The Strategy will cover all Council's digital projects and initiative roadmap. The large uplift program will be delivered through 'Digital Transformation'. Digital Transformation is broader than software systems it encompasses reengineering business processes and future-proofing Council. Next steps are to identify and understand our current and future business requirements.

Governance

- **Integrated Planning and Reporting**

This aligns to strategic objective 4.2 Effective use of technology supports the achievement of organisational objectives.

- **Finance**

A budget allocation request for Digital Transformation will be considered as part of the FY2023/24 budget.

- **Legal**

Not applicable.

Consultation

The development of the Digital Strategy and Digital Transformation included consultation with staff from across the organisation including the Leadership Team. Additionally, the Strategy and Transformation were presented to the Audit, Risk and Improvement Committee and to a Council workshop. There is an expectation for further consultation with staff in the coming months as the Digital Transformation project commences.

Conclusion

The Digital Strategy provides strategic direction for the implementation of technology solutions at Council. It will shape the future of Council's system architecture minimising the current inefficiencies present in our business processes.

Attachment

1. Digital Strategy (**for adoption**)

Digital Strategy

To successfully guide Council through its Digital Transformation.

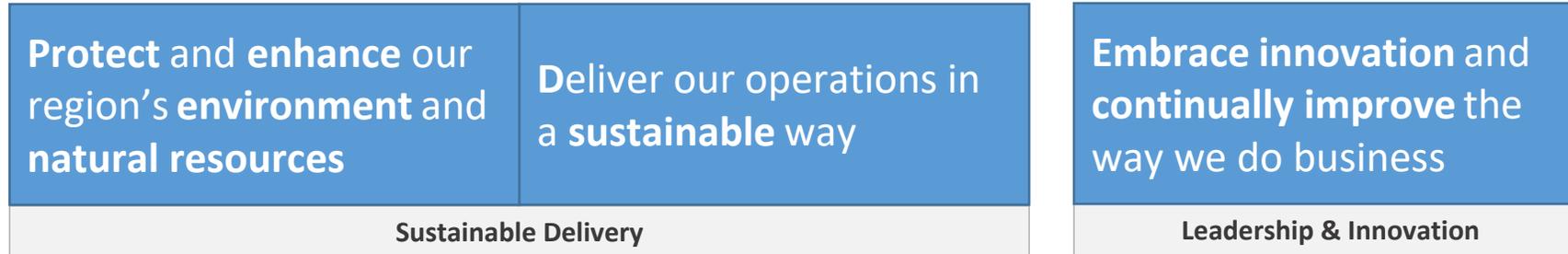


ROUS
COUNTY COUNCIL

Our mission is to provide quality services that support a sustainable and productive region.

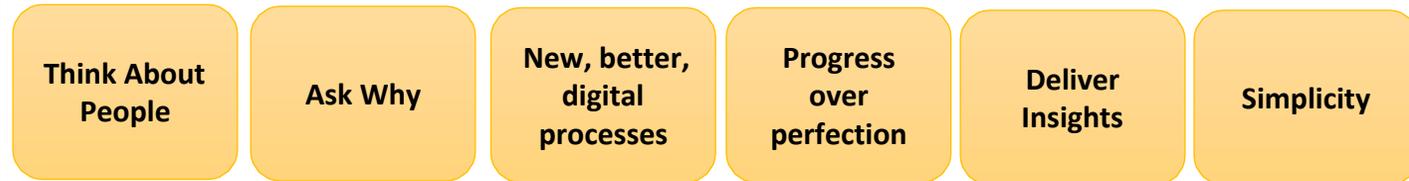
Our digital strategy will deliver outcomes that help protect our region's environment, deliver our operations in a sustainable way and ensure we embrace innovation and continuous improvement.

DIGITAL OBJECTIVES

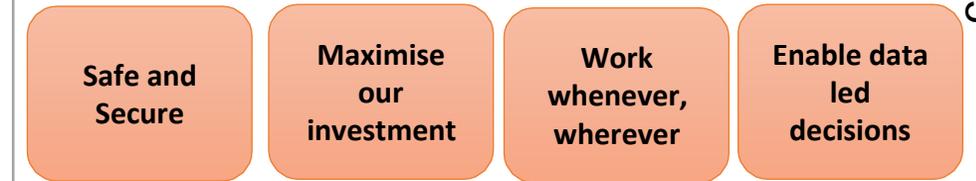


PRINCIPLES AND GUIDELINES TO MEET OBJECTIVES

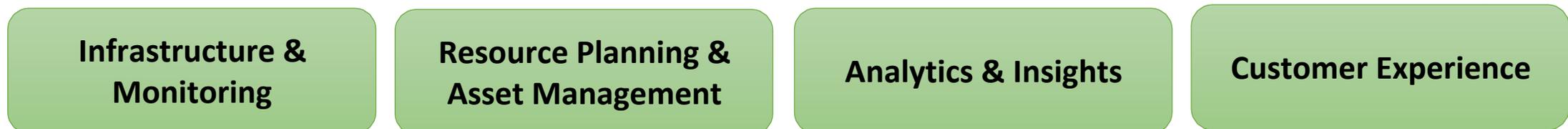
DESIGNED AND DELIVERED WITH THE FOLLOWING PRINCIPLES



BUILT TO OUR TECHNOLOGY GUIDELINES



INITIATIVES DELIVERED WITHIN FOUR PILLARS



Our Digital Objectives

Protect and enhance our region's environment and natural resources

In service delivery and asset management:

- Early leak detection
- Predictive modelling
- Digital real time monitoring of flood network
- Providing real time flood monitoring available to the community (e.g. real time monitoring of assets during an emergency. Automatically pushing dam levels to website etc
- Infrastructure performance monitoring
 - Automatically detect asset failures
 - Maintenance warnings
- Weed mapping and trend analysis
- Easily accessible data, including interactions with private landholders
- ➔ Minimise natural resource wastage
- ➔ Maximise water sources
- ➔ Mitigate and / or respond quickly to asset failures
- ➔ Know where weeds are moving and where to target

Deliver our operations in a sustainable way

In the field:

- Provide our workforce with tools that make their job easier
- Efficiently assign, distribute, record and cost work
- Simple and accessible tools available anywhere
- Remove double handling
- Embedded data validation
- ➔ Minimise low-value administrative tasks and duplication
- ➔ Intuitive, fit for purpose tools to do the job available when required

In our enablement processes:

- Reporting available to inform business decisions
- Processes are designed to deliver the minimum viable product to meet our organisational goals, anything above this is considered
- Manual processes are removed (or streamlined)
- Information, tools, templates, and resources are easy to find when they're required
- ➔ Reduced overhead costs
- ➔ Provide people clarity around their roles

In our ICT function:

- Change from supporting applications to supporting the business
- Utilise technologies to reduce our long term cost of ownership by keeping our systems current and in the cloud
- ➔ ICT is the digital partner of the business
- ➔ Ensuring we maximise the benefit of each dollar spent by delivering quality services in an efficient and safe way

Embrace innovation and continually improve the way we do business

Embrace innovation and continually improve the way we do business

- Accurate data collected and analysed
- We know what our assets cost to build, maintain and operate
- Data informs capex spend (maintenance and asset replacement)
- Digital metering provides data on real time usage and wastage
- Customers can interact with us when and how they want
- IoT opens up opportunities that have yet to be defined
- ➔ Decisions based on fact
- ➔ Maximise the use of public money
- ➔ Save money
- ➔ Protect natural resources
- ➔ RCC seen as a valued, forward looking service provider

Our Design Principles

Think About People

- Human centred design
- Customer in mind

Ask Why

- What are we addressing?
- Why is it a problem?
- Solve the right problem

New, better, digital processes

- Process redesign is always part of the solution

Progress over perfection

- Iterate and evolve
- Nothing will be perfect, it will continually improve

Deliver Insights

- Think how we capture and access data
- Think how we use data

Simplicity

- Simple, generic processes
- Simple, user-friendly design
- Only utilise functionality that's required

Our Technology Guidelines

Safe and Secure

Planning and Governance:

- Cyber security plans aligned with business continuity

Cyber Security Culture:

- Embed cyber security awareness and risk management

Managing Cyber security risks:

- ACSC Essential Eight
- NIST Framework

Maximise our investment

Multi-faceted consolidated systems:

- Systems that provide corporate functionality will be shared and consolidated
- Every system has a clear, understood purpose

Cloud first:

- Cloud -> Buy -> Build
- Enable scalability, flexibility and mobility

Hardware and software standardisation:

Work whenever, wherever

Cross platform solutions:

- Enable productivity on any device

Access Anytime, Anywhere

- Through multiple technologies and platforms

Enable data led decisions

Data driven business decisions:

- Data is easily accessible
- Data is accurate and free from error
- Use modern BI and visualisation tools to inform choices
- Empower self-service business intelligence
- Implement end to end transparency

Our Initiative Pillars

Infrastructure & Monitoring

Initiatives within this pillar would be around initiating or improving the monitoring of our infrastructure and service delivery.

The implementation of these initiative would improve data collection, reporting and the ability to measure performance.

Resource Planning & Asset Management

Initiatives within this pillar would focus on improving forward planning.

While focused in the key areas of resource and asset management planning, it would encompass business process and record management.

The implementation of these initiatives would improve strategies, programs and plans.

Analytics & Insights

Initiatives within this pillar would be around collecting and analysing data to gain valuable insights.

This would be applicable across all areas of the business. From asset lifecycle modelling, financial forecasting, to business practice performance.

The implementation of these initiatives results in improved data-driven decision making, that would ensure we can effectively deliver services to our community with limited resources.

Customer Experience

Initiatives within this pillar would focus on enhancing the customer experience.

The implementation of these initiatives would result in improved customer satisfaction and relationships with the business.

Annual Financial Reports and Auditor's report for the year ending 30 June 2021

Responsible Officer: Group Manager Corporate and Commercial (Geoff Ward)

Recommendation

That Council acknowledge that the audited 2021/22 Financial Reports were presented to the public and no submissions were received.

Background

At its October 2022 Council meeting it was resolved:

1. In accordance with section 413 (2c) of the Local Government Act 1993 and clause 215 of the Local Government (General) Regulation 2021, adopt the 2021/22 Audited Financial Reports and "Statement by Councillors and Management" for both the General-Purpose Financial Reports and the Special Purpose Financial Reports, with the Chairperson and Deputy Chairperson delegated to sign on behalf of Council.
2. Note that public notice for the presentation of the 2021/22 Financial Reports will be issued on Friday, 21 October 2022.
3. Forward a copy of the 2021/22 Audited Financial Reports to the Office of Local Government.
4. Present the 2021/22 Audited Financial Reports to the public at Council's 14 December 2022 meeting.

SUMMARY OF FINANCIAL REPORTS FOR THE YEAR ENDED 30 JUNE 2022

	2021/22 \$'000	2020/21 \$'000
Income statement		
Total income from continuing operations	34,562	30,575
Total expenses from continuing operations	32,349	26,251
Net operating result for the year	2,213	4,324
Net operating result before grants and contributions provided for capital purposes	(3,418)	(911)
Balance sheet		
Total current assets	43,122	52,077
Total current liabilities	9,199	9,372
Total non-current assets	512,506	500,621
Total non-current liabilities	25,396	29,048
Total equity	521,033	514,278
Other financial information		
Unrestricted current ratio	4.26 : 1	7.03 : 1
Operating performance ratio	(9.56%)	(4.92%)
Building and infrastructure renewals ratio	0.62 : 1	0.90 : 1
Debt service ratio	1.42 : 1	1.59 : 1

Consultation

Public advertisements were placed on Council's website calling for public submissions. No submissions were received.

Rous County Council meeting 14 December 2022

Conclusion

The audited 2021/22 Financial Reports were presented to the public and no public submissions were received.

Development Servicing Plans 2022 – public exhibition

Responsible Officer: Group Manager Planning and Delivery (Andrew Logan)

Recommendation

That Council:

1. Endorses the draft Bulk Water Supply Development Servicing Plan attached to the report for public exhibition for the period 19 December 2022 to 2 February 2023.
2. Write to the constituent councils advising of the proposed changes to the Bulk Water Supply developer charge and requesting the Constituent Councils consider providing this notification of change to existing unpaid development applicants.
3. Endorses the draft Retail Water Supply Development Servicing Plan attached to the report for public exhibition for the period 19 December 2022 to 2 February 2023.

Background

New and increasing density of development places additional demands on the water supply network requiring the development of new water sources and upgrades and augmentations of the existing water treatment and distribution assets to meet this demand.

Section 64 of the *Local Government Act 1993* confers on a council, including a county council, the power under section 306 of the *Water Management Act 2000* as the relevant water supply authority to require a developer as a precondition to the grant of a certificate of compliance for the development:

“to pay a specified amount to the water supply authority by way of contribution towards the cost of such water management works as are specified in the notice, being existing works or projected works, or both”

Developer charges are up-front charges levied to recover part of the infrastructure costs incurred in servicing new developments or additions/changes to existing developments.

To calculate the amount of the developer charges payable for each development, NSW Council's prepare a Development Servicing Plan (DSP), generally based on the NSW Department of Planning and Environment (DPE) - Water Developer Charges Guidelines (Guidelines) applicable at the time. The calculation of the developer charge considers the value of existing assets with capacity to service the new development, the forecast cost of new assets and forecast growth in connections.

Rous County Council's ('Rous') DSP:

- Identifies the connection growth projections for our region and the required levels of service and assets required to service the forecast development;
- Calculates the water supply developer charges to be levied on development areas based on guidance documents provided by the NSW State Government;
- Contains key administrative matters relating to calculation, collection and exemption from developer charges.

Rous's existing DSP for Bulk Water Supply, adopted in 2016, was prepared in accordance with the 2012 Guidelines applicable at the time. Since that time there have been significant changes in Rous's forward capital works program relating primarily to the Future Water Program. It is now prudent to update the DSP for Bulk Water Supply to ensure appropriate charges are being levied on development to recover part of the forecast infrastructure costs.

Bulk Water Development Servicing Plan

Rous engaged Hydrosphere Consulting to assist in the preparation of the updated DSP for Bulk Water Supply. The updated DSP document was generally based on the 2016 Guidelines.

A significant difference between the 2012 and 2016 Guidelines is the exclusion of assets older than 30 years in the developer charge calculation. Staff consider that Rous's existing assets older than 30 years, that are still in service, have capacity for growth into the current DSP period, and their inclusion in the calculation of the developer charge is consistent with the intent of the Guidelines. This position was instructed to the consultant and the DSP prepared accordingly.

Approval for the inclusion of these existing assets in the developer charge calculation was requested from DPE Water, however their position was that any assets older than 30 years should not be included without documentation that "*when the asset was constructed it was planned to provide capacity for growth*". This documentation is not available, however recent hydraulic modelling of our bulk water supply network has shown that the existing asset base can meet the current water demand and have additional capacity to meet future demand within this DSP period.

The proposed Bulk Water Supply developer charge for 2022/23 is \$9,231/ET (ET = Equivalent Tenement = water use from a single detached residential dwelling). As a comparison, the existing Bulk Water Supply developer charge for 2022/23 is \$9,256/ET.

The Bulk Water Supply developer charges are applicable to all development connected directly to the Rous water supply system or indirectly on the Constituent Councils water supply networks serviced from the Rous bulk water supply system.

Charges are paid direct to Rous for development connected direct to the Rous water supply system. For development on the Constituent Council water supply systems, bulk water developer charges are collected through the Constituent Councils, and remitted to Rous. This is a service provided by the Constituent Councils with a fee per DA charged in accordance with the Service Level Agreements.

The Draft Bulk Water Supply Development Servicing Plan is included as Attachment 1 to this report.

Retail Water Development Servicing Plan

During the Bulk Water Supply DSP development process, it was also identified that Rous did not have a DSP for Retail Water Supply assets. Retail water supply assets are those assets that only supply water to Rous's retail water customers.

Extensions of the retail water supply network (i.e., into or within new subdivisions) are fully funded by the developer. However, there is currently no income source for lead-in retail water supply infrastructure including distribution pipes and reservoirs which will be required as the number of connections grows and water demand increases.

A DSP has been prepared for the Retail Water Supply. The proposed Retail Water Supply developer charge for 2022/23, as calculated in accordance with the Guidelines, is \$356/ET.

Charges levied under a DSP for Retail Water Supply will provide part of the required funding for the new infrastructure required to meet future water demand.

The Retail Water Supply developer charges are applicable only to development connected directly to the Rous water supply system.

The Draft Retail Water Supply Development Servicing Plan (DSP) is included as Attachment 2 to this report.

Both DSPs were audited by an NSW DPE Water approved third party auditor with the audit summary and findings included as Attachment 3 to this report. The auditor noted a single non-conformance being the inclusion of assets older than 30 years at the commencement of the DSP document in the developer charge calculation.

Governance

- **Integrated Planning and Reporting**

The implementation of an updated Development Servicing Plan (DSP) for Bulk Water Supply is a key priority in Rous's Operational Plan Activity 1.4.2 (iii) to be delivered in 2022/23 to strengthen Rous's revenue streams.

- **Finance**

Developer charges account for approximately 17% of Rous's income in the Bulk water fund, second only to contributions from the Constituent Councils.

The forecast income from Bulk Water Supply developer charges over the 10 year Long Term Financial Plan (LTFP) is \$49.5M based on current developer charges (\$9,256/ET), forecast connection growth and forecast indexation.

The proposed Bulk Water Supply developer charge (\$9,231/ET) is slightly lower than the current charge and results in a slightly reduced forecast income over the 10 year Long Term Financial Plan (LTFP) of \$49.2M. This will not impact the proposed price path increases or loan requirements.

For comparison purposes, Hydrosphere Consulting was requested to calculate the developer charge based on full conformance with the 2016 Guidelines (meaning exclusion of assets older than 30 years).

The calculated developer charge under this scenario was \$3,736/ET which, if adopted would result in a significantly reduced forecast income over the 10 year Long Term Financial Plan (LTFP) of \$29.4M. To continue to fund the required infrastructure to service the forecast growth would require:

- Significant increases to price path with multiple years of 10% and 15% increases (compared to current increases of 6% and 7%) and,
- Increased loans from \$165m to \$200m+ resulting in additional \$15m+ additional Principal and Interest payments over next 10 years

In effect, existing customers would be paying a larger proportion of the cost for new development. This is considered inequitable, and it is recommended that the draft Bulk Water Supply DSP as presented with the proposed charge of \$9,231/ET (2022/23) be approved for public exhibition.

Regarding the draft Retail Water Supply developer charge (\$356/ET), this will provide an additional income stream for the Retail fund to contribute to the cost of Rous retail infrastructure upgrades and augmentations to service new development. Based on historical development growth figures of approximately 25-40/ET/annum on Rous's retail water supply network, the forecast annual income is \$8,900-\$14,240/annum.

The cost to prepare, audit and adopt a Retail Water Supply DSP every 5-6 years is approximately \$1,000/annum (annualized).

The cost to administer the Retail Water Supply DSP would be negligible as assessments, collection of contributions and issuance of compliance certificates are already being undertaken for the Bulk Water Supply DSP and these charges would be collected concurrently.

It is recommended that the draft Retail Water Supply DSP as presented with the proposed charge of \$356/ET (2022/23) be approved for public exhibition.

- **Legal**

External legal advice was obtained in relation to the extent to which Rous must consider the NSW DPE Water 2016 Developer Charges Guidelines in the preparation of a Developer Servicing Plan. This advice can be summarised as follows:

- Adopting a DSP not strictly in accordance with the NSW DPE Water 2016 Developer Charges Guidelines (Guidelines) will not contravene the law
- The Guidelines must only be 'considered' when calculating the developer charges
- Inclusion of asset more than 30 years old is considered reasonable where the inclusion of the assets meets the intention of the developer charge calculation

Adoption of the proposed Bulk Water Supply Charge (\$9,231/ET) is considered to be low risk compared to the impacts on future income and the required increase in the price of water to existing customers if Rous were to adopt a lower developer charge.

Consultation

The draft DSPs were prepared in consultation with an internal working group comprising Rous finance and development planning staff.

Development Servicing Plans – Administration Matters

This section provides a summary of Rous's position on various matters relating to the administration of the DSPs. Some of these items are captured within the DSP documents, and for the remainder, this report once resolved, will serve as Rous's policy position. These matters will be incorporated into a policy to be presented to the February 2023 council meeting for adoption with the final DSPs.

- **Applicability and Proposed Commencement Date**

The proposed developer charges will be applicable to all new development, re-development (i.e. change of use) and existing development applications where applicable developer charges are not yet paid. This includes the connection of land with existing residences and/or non-residential buildings and the internal developments and community asset developments of the Constituent Councils if developer charges have not been paid previously.

The proposed commencement date of both the Bulk Water Supply DSP and Retail Water Supply DSP is 1 July 2023. This will allow time to register the DSPs with NSW DPE Water, update Rous's LTFP and provide notice to the Constituent Councils of the proposed charges.

The proposed charges are in 2022/23 dollars and will need to be indexed to be consistent with other fees and charges for 2023/24.

It is recommended Rous write to the Constituent Councils advising of the proposed changes to the Bulk Water Supply developer charge and requesting the Constituent Councils consider providing this notification of change to existing unpaid development applicants.

- **Determining number of ETs**

Rous will assess the demand for service in terms of equivalent tenements (ET) in accordance with the Section 64 Determinations of Equivalent Tenements Guidelines (NSW Water Directorate, 2009) or other related policy or methodology approved by Rous.

In the assessment of ETs, allowance will be made for existing entitlements based on available records or calculated from existing approved development.

For non-residential or non-standard developments where the expected or actual water use information is available, the NSW DPE Water 2016 Developer Charges Guidelines require the numbers of ETs to be calculated using local average annual residential water supplied per connected property as reported in the National Performance Framework annual performance report. For Rous this figure is 181kL/ET/annum.

Where a non-residential development is approved, and developer charges levied on the basis of estimated water usage, Rous reserve the right to monitor ongoing water use and levy additional charges where actual water usage consistently exceeds approved water usage.

The same methodology is to be applied by the Constituent Councils in assessing and collecting Rous bulk water supply developer charges on our behalf.

- **Deferred Payment Options**

In 2019 Rous resolved to reject any further consideration of requests for payment plans for developer charges, until such time as a subsequent report on policy options for deferred payment arrangements was received and considered by the Rous. Resolution 13/19 is reproduced below.

RESOLVED [13/19] (Mustow/Cadwallader) that Council:

1. *Receive and note the report.*
2. *Approve the proposal for deferred payment arrangements as set out in the report.*
3. *Receive a subsequent report on policy options for deferred payment arrangements having regard to the Development Servicing Plan for Bulk Water Supply and the policy positions of the constituent councils; and*
4. *Reject any further consideration of similar requests until Point 3. is complete and a policy position is determined.*

An internal staff working group reviewed potential options for deferred payment plans and the policy positions of the Constituent Councils. In general, the Constituent Councils offer deferred payment plans on application and subject to merit based assessment. Generally, payment plans are offered to non-residential developments only, to enable new businesses with large upfront costs to establish.

The recommended position for Rous is to permit deferred payment plans for non-residential developments with forecast or actual demand >2ET, at the discretion of the General Manager. Deferred payment plans are to be offered for a maximum term of 12 months and require provision of a security bond (generally in the form of a bank guarantee) equal to the developer charge payable. Only Rous has the authority to approve deferred payment arrangements for Rous developer contributions including those assessed and collected by the Constituent Councils.

- **Waiving Charges for Non-Profit Organisations**

The existing DSP has provision for Rous to consider requests to waive developer charges from charitable and non-profit organisations considered by Rous to be making a significant and positive contribution to the community and unable to recover the charge from the end user.

It is proposed to retain this provision with a minor clarification that charges will be applicable for any commercial operation that is part of the proposed development.

- **Auditing of developer charges collection mechanisms**

The majority of Rous developer charges are levied and collected by the Constituent Councils. There is currently limited oversight and review of the collection mechanism being undertaken by Rous for what is a significant source of income.

There are measures within the previous and current Service Level Agreements (SLAs) with the Constituent Councils that enable Rous to confirm or evaluate that all charges payable have been paid (refer SLA Clause A1.4.3).

Staff will develop appropriate evaluation and checking procedures and work with their counterparts at the Constituent Councils to ensure the developer charge collection process is being undertaken without errors and charges payable to Rous have been paid and remitted.

Rous are also working with the NSW DPE to utilise the state government's Planning Portal to obtain and provide information on relevant development applications.

- **Pathway to Adoption of the Development Servicing Plans**

The pathway to adoption of a DSP is detailed in the NSW DPE Water 2016 Developer Charges Guidelines as follows:

- At least 10 working days before the start of the exhibition period for the Draft DSP documents, Rous must inform the Urban Development Institute of Australia, and the Housing Industry Association. This has already been actioned.
- The draft DSPs, attached to this report, are required to be publicly exhibited for a minimum of 30 working days. The draft DSPs will be uploaded to Rous's website on or before 19 December 2022. A letter will also be sent to the Constituent Councils advising them of the draft DSPs public exhibition period.
- Final DSPs incorporating any comments received during the public exhibition period are proposed to be tabled to the February 2023 Council meeting for adoption with the updated charge to be implemented from 1 July 2023 (the current proposed charges detailed in this report are for 2022/23 and will be required to be indexed accordingly).
- Registration of the DSPs with NSW DPE Water.

Conclusion

The adoption of the revised Bulk Water Supply DSP and proposed Retail Water Supply DSP will ensure appropriate charges are being levied on development to recover part of the costs of forecast infrastructure needs to meet the increased demand.

It is recommended Rous County Council endorse both the draft Bulk Water Supply DSP and draft Retail Water Supply DSP for public exhibition. A further report will be prepared for Rous County Council for February 2023 presenting any submissions received and final DSPs for adoption.

Attachments

1. Draft Bulk Water Supply Development Servicing Plan (DSP)
2. Draft Retail Water Supply Development Servicing Plan (DSP)
3. DSP Auditors Report



Development Servicing Plan

Bulk Water Supply

November 2022

Public Exhibition

This DSP has been prepared by Hydrosphere Consulting on behalf of Rous County Council.

Hydrosphere Consulting Pty Ltd
Suite 6, 26-54 River Street
PO Box 7059, BALLINA NSW 2478
hydrosphere.com.au

© Copyright 2022 Hydrosphere Consulting

**22-031: ROUS DEVELOPMENT SERVICING PLANS
BULK WATER SUPPLY DSP**

REV	DESCRIPTION	AUTHORS	REVIEW	APPROVAL	DATE
0	Draft for RCC review	R. Campbell	M. Howland	M. Howland	14 June 2022
1	Draft for external audit	R. Campbell	M. Howland	M. Howland	12 July 2022
2	Updated for public exhibition	R. Campbell	M. Howland	M. Howland	21 August 2022
3	Updated for public exhibition	R. Campbell	M. Howland	M. Howland	29 November 2022

CONTENTS

SUMMARY	I
1. INTRODUCTION.....	1
2. ADMINISTRATION	1
2.1 DSP Area	1
2.2 Application of Developer Charges	2
2.3 Timing and Payment of Developer Charges	2
2.4 Review.....	2
2.5 Indexation.....	3
2.6 Exemption	3
2.7 Deferral of Charges.....	3
3. LAND USE PLANNING.....	3
3.1 Growth Projections.....	3
3.2 Land Use Information.....	4
4. WATER SUPPLY INFRASTRUCTURE.....	4
4.1 Existing Assets.....	5
4.2 Future Capital Works	5
4.3 Reticulation Works	6
5. LEVELS OF SERVICE.....	7
6. DESIGN PARAMETERS.....	7
7. DEVELOPER CHARGES METHODOLOGY.....	8
7.1 Capital Charge	8
7.2 Reduction Amount.....	8
8. DEVELOPER CHARGE CALCULATION	9
9. OTHER DSPS AND RELATED CONTRIBUTION PLANS	10
REFERENCES	11
GLOSSARY AND ABBREVIATIONS	12
APPENDIX 1 DSP AREA MAP.....	13
APPENDIX 2 DSP BACKGROUND DOCUMENT.....	17

FIGURES

Figure 1: Future capital works costs included in the DSP 6

Figure 2: DSP area – RCC bulk water supply 15

TABLES

Table 1: Developer charges (2022\$) 1

Table 2: Growth projections 3

Table 3: Levels of service – bulk water supply 7

Table 4: Capital charge and developer charge – bulk water supply (2022\$) 9

Table 5: Reduction amount – bulk water supply (2022\$) 9

Table 6: Existing bulk water supply assets included in the capital charge (2022 \$) 18

Table 7: Future capital works included in the capital charge (2022 \$'000) 68

Table 8: Capital charge calculation (2022 \$) 72

Table 9: Reduction amount calculation (2022 \$) 73

Public Exhibition

SUMMARY

This Development Servicing Plans (DSP) covers bulk water supply developer charges for the development area served by the Rous County Council (RCC) bulk water supply.

In preparing the DSP, Council has considered the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater* (DPI Water, 2016) issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act 2000*.

The area covered by this DSP is shown on the map attached in Appendix 1.

The timing and expenditure for works serving the area covered by this DSP are shown in the DSP Background Document (Appendix 2). Future capital works expenditure included in RCC's Total Asset Management Plan (TAMP) have been applied to the DSP including water supply security improvements, asset renewals and upgrades. The TAMP was developed as part of the *Future Water Project 2060 Integrated Water Cycle Management Strategy* adopted by RCC in 2022 and is updated annually by RCC.

System design and operation in the DSP area are based on RCC's levels of service summarised in Section 5 including restrictions during drought conditions and water quality.

The water supply developer charge for the area covered by this DSP is given in Table 1.

Table 1: Developer charges (2022\$)

DSP Area	Service Area	Developer Charge (per ET)
Bulk Water DSP	All bulk water supply area	\$9,231

Developer charges relating to this DSP document will be reviewed within 4 to 8 years.

In the period between any review, developer charges will be adjusted on 1 July annually (using the 12-month CPI (All Groups) for Sydney), excluding the impact of GST.

Additional developer charges for the retail component of the water supply are also levied by the local councils or RCC.

Developers are responsible for the full cost of the design and construction of water supply reticulation works within subdivisions.

Background information containing all the critical data including calculation models behind each DSP is available on request.

1. INTRODUCTION

Rous County Council (RCC) is a single purpose bulk water authority constituted as a county council under the *Local Government Act 1993*. RCC provides bulk water to four local water utilities (LWUs) on the far north coast of NSW, servicing the urban areas of the following local government areas (LGAs):

- Ballina Shire Council, excluding Wardell.
- Byron Shire Council, excluding Mullumbimby.
- Lismore City Council, excluding Nimbin.
- Richmond Valley Council, excluding Casino and all land west of Coraki.

These LWUs are referred to as the constituent councils and are responsible for the distribution and reticulation services from the bulk water meters to customers within their own LGAs. RCC is responsible for the construction, extension, protection, maintenance, control and management of bulk water supply works within these areas.

Section 64 of the *Local Government Act, 1993* enables a local government authority to levy developer charges for water supply, sewerage and stormwater. This derives from a cross-reference in that Act to section 306 of the *Water Management Act, 2000*.

A Development Servicing Plan (DSP) details the water supply developer charges to be levied on development areas utilising a water utility's water supply infrastructure.

This document covers developer charges for bulk water supply for the development areas serviced by RCC. In preparing the DSP, RCC has considered the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater* (DPIE Water, 2016) issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act, 2000*.

RCC may develop or review policies related to the application or administration of developer charges.

2. ADMINISTRATION

2.1 DSP Area

The area covered by this DSP is shown on the map attached in Appendix 1.

The DSP area boundary is defined as the area served by the RCC bulk water supply scheme, in the constituent council local government areas of:

- Ballina Shire Council, excluding Wardell.
- Byron Shire Council, excluding Mullumbimby.
- Lismore City Council, excluding Nimbin.
- Richmond Valley Council, excluding Casino and all land west of Coraki.

The basis for defining the DSP area boundary is the existing and future development serviced by the RCC bulk water supply system.

2.2 Application of Developer Charges

The majority of RCC's developer charges are collected by the constituent councils acting as agents on behalf of RCC. The constituent councils will assess the demand for service in terms of equivalent tenements (ET) in accordance with the *Section 64 Determinations of Equivalent Tenements Guidelines* (NSW Water Directorate, 2009) or other related policy or methodology approved by RCC. Each council and RCC will levy bulk supply and retail water supply developer charges proportional to the number of ETs (determined using the current average water consumption for an average residential dwelling (181 kL/ET p.a. as discussed in Section 3.1).

The developer charges will apply to new development and re-development (i.e. change of use). This includes the connection of land with existing residences and/or non-residential buildings and the internal developments and community asset developments of the constituent councils if bulk water supply developer charges have not been paid previously.

RCC may also develop or review other policies related to the application or administration of developer charges.

2.3 Timing and Payment of Developer Charges

On receipt of a Development Application or a Water Service Application, RCC, or its agent council, will advise the charges payable under this DSP.

Developer charges will be determined and levied in accordance with the provisions of this DSP at the time of considering an application for a compliance certificate under section 305 of the *Water Management Act 2000* or a construction certificate under section 109 of the *Environmental Planning and Assessment Act 1979* or at the time of issuing a notice or other form of written advice e.g. under the *SEPP (Exempt and Complying Development Codes) 2008* or approval under section 68 of the *Local Government Act 1993*. The time limit for payment of developer charges will be included in the notice of determination or will be advised to the developer by a separate notice. The developer contribution will be at the rate that applies at the time of payment i.e. the rate may increase (through indexation or review of this DSP) from the time the condition appears on the notice of development consent until the payment is received.

A Subdivision Certificate, Occupancy Certificate, Complying Development Certificate or, where so conditioned the approval of a Section 68 Application, will not be issued until the conditions of the Certificate of Compliance have been fulfilled.

Dispute resolution procedures are discussed in the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater*. RCC is not a member of the Electricity and Water Ombudsman.

Payment of developer charges must be made in the form of a cash payment to RCC or its agent council.

2.4 Review

The developer charge relating to this DSP document will be reviewed within 4 to 8 years. A shorter review period may be appropriate if a major change in circumstances occurs.

If the review indicates that the developer charge in the DSP remains valid, the DSP will apply for a further five years after RCC releases a public notice to this effect. However, if it is considered that a new DSP is warranted, a new DSP shall be prepared, audited, exhibited and registered.

2.5 Indexation

In the period between any review, developer charges will be adjusted on 1 July annually (using the 12-month CPI (All Groups) for Sydney), excluding the impact of GST.

2.6 Exemption

Under section 306 (4) and (5) of the *Water Management Act 2000*, the Minister for Planning may make a determination in regard to developer charges levied on Crown development. Crown developments for essential community services (education, health, community services, and law and order) are exempt from general developer charges. Water utilities may charge these developments only for that portion of the direct connection cost (e.g. for a lead-in main) relating to Crown development.

RCC may also apply other exemptions for developer charges.

2.7 Waiver of Charges

RCC may waive developer contributions where the proponent demonstrates to RCC's satisfaction that it is a non-profit and charitable organisation, which by virtue of carrying out such development, is considered by RCC to be making a significant and positive contribution to the community and is unable to recover the charge from the end user. Charges will be applicable for any commercial operation that is part of the development.

2.8 Deferral of Charges

RCC may consider deferring charges payable by a developer. RCC will assess the merit of any request to defer developer charges with consideration of any policy available at that time. Only RCC has the authority to approve deferred payment arrangements for RCC developer contributions including those assessed and collected by the constituent councils.

3. LAND USE PLANNING

3.1 Growth Projections

Growth projections have been developed from data provided by the constituent councils for future development within the bulk water supply area. The data shown in the following table have been derived from the future demand forecast prepared by RCC in association with the constituent councils (Hydrosphere Consulting, 2020) and is presented as the number of water supply ETs. An ET is the demand a development will have on infrastructure in terms of the water consumption for an average residential dwelling. The current average demand is 181 kL/a (average residential demand across the bulk supply area over the five years 2016 - 2020) and represents 1 ET.

Table 2: Growth projections

Year	Total number of water supply ETs
1996	43,694
2000	48,380

Year	Total number of water supply ETs
2005	53,892
2010	59,018
2015	63,760
2020	68,118
2023	70,547
2025	72,090
2030	75,678
2035	78,881
2040	81,700
2045	84,133
2050	86,182
2052	86,894

3.2 Land Use Information

This DSP should be read in conjunction with the constituent council Local Environmental Plans and Development Control Plans.

4. WATER SUPPLY INFRASTRUCTURE

RCC's bulk water supply network extends from Ocean Shores in the north and Byron Bay in the east, west to Lismore and south across the Richmond River near Woodburn to Evans Head as shown on the map in Appendix 1. The principal component of the RCC bulk supply network is Rocky Creek Dam, situated 25 km north of Lismore near the village of Dunoon. Other water sources utilised by RCC include Emigrant Creek Dam and the Wilsons River Source. The RCC *Future Water Project 2060* (Hydrosphere Consulting, 2022) describes the source augmentation strategy to be implemented to assist in meeting future water demands.

RCC is responsible for ensuring adequate treatment processes are in place to ensure the quality of water supplied meets the drinking water guidelines. Water from Rocky Creek Dam and the Wilsons River Source is treated at the 70 ML/d Nightcap Water Treatment Plant (WTP) built in 1991. Water from Emigrant Creek Dam is treated at the 7.5 ML/day Emigrant Creek WTP commissioned in 2006.

Treated water from the Nightcap WTP is distributed through three trunk mains owned and operated by RCC. One trunk main delivers water to Lismore and to the Richmond Valley area. The other two mains supply Lismore City Council, Byron Bay and Ballina Shire. Treated water from Emigrant Creek WTP is distributed to partly meet the water demands of Ballina and Lennox Head.

The RCC supply system is interconnected and considered to be a single system with any existing or future customer benefiting equally from all parts of the system. During various operating scenarios, supply to the whole system could be sourced from Rocky Creek Dam or from a combination of sources.

4.1 Existing Assets

All existing assets servicing the bulk water supply area are included in the capital charge calculations except for the following:

- Assets which will be more than 30 years old at the commencement of the DSP (i.e. commissioned pre-1993). The exception is headworks assets that are more than 30 years old but are critical bulk supply assets that have been designed with capacity to service the future development expected within the DSP period. These include dams, treatment plants, trunk mains with diameter ≥ 300 mm, reservoirs and pump station assets. This is considered equitable as new development will contribute to the cost of the headworks assets.
- Assets which are unlikely to be fully utilised over the planning horizon for calculating developer charges.
- Reticulation assets which are typically paid for directly by developers.
- Gifted assets which were built by developers and later transferred to RCC.
- Assets servicing RCC's retail water supply areas.

Existing assets have been valued on the basis of Modern Engineering Equivalent Replacement Asset (MEERA) excluding contingencies. The existing assets servicing the area covered by the DSPs are listed in the DSP Background Document (Appendix 2).

4.2 Future Capital Works

The RCC capital works program is developed and reviewed annually through asset management planning (review of asset capacity, level of service and asset renewal requirements) as part of RCC's Total Asset Management Plan (TAMP) development. Future assets have been valued on the basis of MEERA including contingencies. The TAMP was recently reviewed as part of the *Future Water Project 2060* (Hydrosphere Consulting, 2020).

The DSP includes 10 years (2023 – 2032) of future capital works where these works will service the growth areas or where existing assets that service the growth areas will require replacement within 10 years (and the original asset has not been included in the calculation). Where possible, the construction of new assets servicing a development has been timed to match expected staging of the development. Similarly, the timing of the replacement of these assets has been estimated from the predicted remaining life and renewal requirements.

The RCC *Future Water Project 2060* (Hydrosphere Consulting, 2020) includes staged development of surface and groundwater supplies to meet the demand and water security needs of the service areas including new development. These assets will be implemented in stages (stage 1 at 2025, stage 2 at 2030 and stage 3 by 2040). The nexus between the future assets and the future development and RCC's detailed plans for building those assets are documented in the *Future Water Project 2060*. The DSP includes an additional 10 years of new stage 3 assets (between 2033 and 2042) that are documented in the TAMP in the *Future Water Project 2060*.

Capital works of \$232.3 million (2022\$) will be required over the next 30 years (between 2023 and 2042) to provide bulk water supply services. The future capital works included in the DSP are required for servicing of growth as well as renewal of assets over the next 10 years. The timing and expenditure for water supply

capital works serving the area covered by this DSP are shown in the DSP Background Document (Appendix 2) and presented in Figure 1. Works to improve levels of service for existing customers are not included in the DSP. Any capital works in addition to those identified in this plan will be funded by developers.

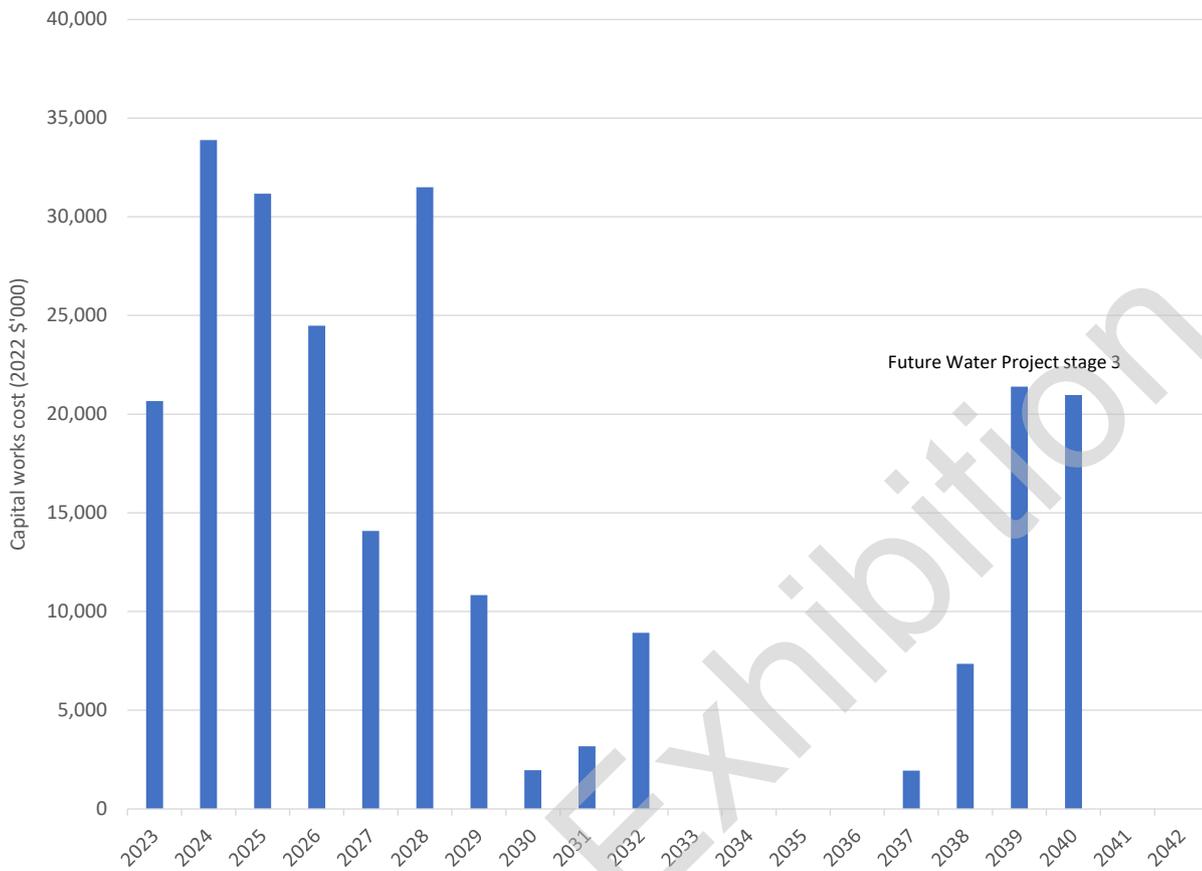


Figure 1: Future capital works costs included in the DSP

4.3 Reticulation Works

The developer shall be responsible for the full cost of the design and construction of water supply reticulation works within developments/subdivisions.

5. LEVELS OF SERVICE

Bulk water supply system design and operation are based on providing the levels of service (LOS) developed as part of the *Future Water Project 2060* adopted following public consultation in 2021 and 2022 (Table 3). The LOS applied to RCC's water supply systems are the targets that RCC aims to achieve. They are not a customer contract.

Table 3: Levels of service – bulk water supply

Description	Units	Target level of service
Water availability		
Average annual water to be supplied for one detached residential dwelling (1 ET)	kL/a	181
Consumption restrictions in droughts		
Maximum duration of restrictions	months per 10-year period	6 (i.e. 5% of the time)
Maximum frequency of restrictions	number of times per 10 years	1 (i.e. 10% of years)
Ability to supply demand through the worst drought on record	% of water demand	90 (i.e. a 10% reduction in average consumption)
Interruptions to supply (per year per supply)		
<i>Planned</i>		
Maximum duration	hours	12
Notice given to domestic customers	days	7
<i>Unplanned</i>		
Maximum duration	hours	24
Water quality		
Potable water quality	-	Meets Australian Drinking Water Guidelines

6. DESIGN PARAMETERS

Investigation, design and construction of water supply components are based on:

- RCC's levels of service and asset management planning.
- *Northern Rivers Local Government Development Design and Construction Manual*.
- *Water Supply Investigation Manual* (1986).
- Water Services Association of Australia water supply codes and standards.

7. DEVELOPER CHARGES METHODOLOGY

Developer charges are up-front charges levied to recover part of the infrastructure costs incurred in servicing new developments or additions/changes to existing developments. Developer charges serve two related functions:

- They provide a source of funding for infrastructure required for new urban development.
- They provide signals regarding the cost of urban development and thus encourage less costly forms and areas of development.

The developer charges calculation is based on the net present value (NPV) approach adopted by the Independent Pricing and Regulatory Tribunal (IPART) for the metropolitan water utilities. The fundamental principle of the NPV approach is that the investment in assets for serving a development area is fully recovered from the development. The investment is recovered through up-front charges (i.e. developer charges) and the present value (PV) of that part of annual bills received from the development in excess of operation, maintenance and administration (OMA) costs.

$$\text{Developer Charge} = \text{Capital Charge (cost of providing the assets)} - \text{Reduction Amount (cost recovered through annual bills).}$$

In setting the developer charges, RCC may consider financial, social and environmental factors to determine a level of developer charges that is balanced, fair and meet RCC's objectives.

The capital charge and reduction amount are discussed further in the following sections. The developer charges process is described fully in the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater*.

7.1 Capital Charge

The capital charges were calculated for RCC bulk water supply service area based on the existing and future assets providing the services in this area. The capital charge is calculated by dividing the present value (PV) of the cost of the assets by the PV of the number of new ETs.

The capital charge represents the efficient capital cost of assets used in providing water related services in a DSP area. This includes the cost of both existing and future assets that will be used to service the DSP area. In addition, because local water utilities provide the upfront funding for constructing these assets, the capital charge also includes a commercial return on this investment.

7.2 Reduction Amount

The reduction amount represents the portion of the cost of assets that RCC expects to recover through water supply revenue. RCC has adopted the NPV of annual bills method to calculate the reduction amount. This method calculates the reduction amount as the NPV for 30 years of the future net income from water supply charges (revenue from user charges less operation, maintenance and administration costs) for the RCC development areas.

8. DEVELOPER CHARGE CALCULATION

The capital charge, reduction amount and developer charge for the water supply area covered by this DSP are shown in the following tables. The charges are shown in 2022\$. RCC will apply the maximum developer charge with no cross-subsidy payable by existing customers.

Capital charge, agglomeration and reduction amount calculations for each service area are shown in Appendix 2.

Table 4: Capital charge and developer charge – bulk water supply (2022\$)

DSP Area	Capital Charge (\$ per ET)	Reduction Amount (\$ per ET)	Calculated Maximum Developer Charge (\$ per ET)	Proposed Developer Charge (\$ per ET)
Bulk water supply area	\$9,752	\$521	\$9,231	\$9,231

Table 5: Reduction amount – bulk water supply (2022\$)

Year	Total ETs	New ETs	Net income from new ETs (\$)¹
2022	69,753		
2023	70,547	795	32,443
2024	71,326	779	64,258
2025	72,090	764	95,445
2026	72,838	748	126,003
2027	73,571	733	155,933
2028	74,289	718	185,234
2029	74,991	702	213,907
2030	75,678	687	241,952
2031	76,349	671	269,368
2032	77,005	656	296,156
2033	77,646	641	322,316
2034	78,271	625	347,847
2035	78,881	610	372,750
2036	79,476	594	397,024
2037	80,055	579	420,670
2038	80,618	564	443,688
2039	81,167	548	466,077
2040	81,700	533	487,838

Year	Total ETs	New ETs	Net income from new ETs (\$)¹
2041	82,217	518	508,970
2042	82,719	502	529,474
2043	83,206	487	549,350
2044	83,677	471	568,597
2045	84,133	456	587,216
2046	84,574	441	605,207
2047	84,999	425	622,569
2048	85,409	410	639,303
2049	85,803	394	655,408
2050	86,182	379	670,885
2051	86,546	364	685,734
2052	86,894	348	699,954
<i>Present value</i>		<i>10,100</i>	<i>5,259,650</i>
<i>Reduction amount (\$ per ET)</i>			<i>521</i>

1. Calculated from RCC water supply financial planning outputs (income and operating expenses less depreciation and borrowing costs) for the whole RCC water supply system. Differences in operating costs between the bulk water supply and retail water supply areas have not been considered in the reduction amount.

9. OTHER DSPS AND RELATED CONTRIBUTION PLANS

The following DSPs and contribution plans may also apply to development within the bulk water supply area:

- Constituent council developer contributions plans.
- RCC Retail Water Supply Development Servicing Plan.
- Constituent council water supply Development Servicing Plans.

REFERENCES

DPI Water (2016) *Developer Charges Guidelines for Water Supply Sewerage and Stormwater*.

Hydrosphere Consulting (2020) *Rous County Council Bulk Water Supply Demand Forecast: 2020 – 2060*, October 2020.

Hydrosphere Consulting (2022) *Rous Regional Supply: Future Water Project 2060 Integrated Water Cycle Management Strategy*. April 2022.

Water Directorate (2017) *Section 63 Determinations of Equivalent Tenement Guidelines*.

Public Exhibition

GLOSSARY AND ABBREVIATIONS

CPI	consumer price index
DSP	Development Servicing Plan
ET	equivalent tenement
IPART	NSW Independent Pricing and Regulatory Tribunal
Kilolitre (KL)	1,000 litres
LWU	Local Water Utility
MEERA	Modern Engineering Equivalent Replacement Asset
ML	megalitre (1,000,000 litres, or 1,000 kilolitres)
NPV	net present value
OMA	operation, maintenance and administration (cost)
p.a.	per annum
PV	present value. The current value of future money or ETs
RCC	Rous County Council

Public Exhibition

APPENDIX 1 DSP AREA MAP

Public Exhibition

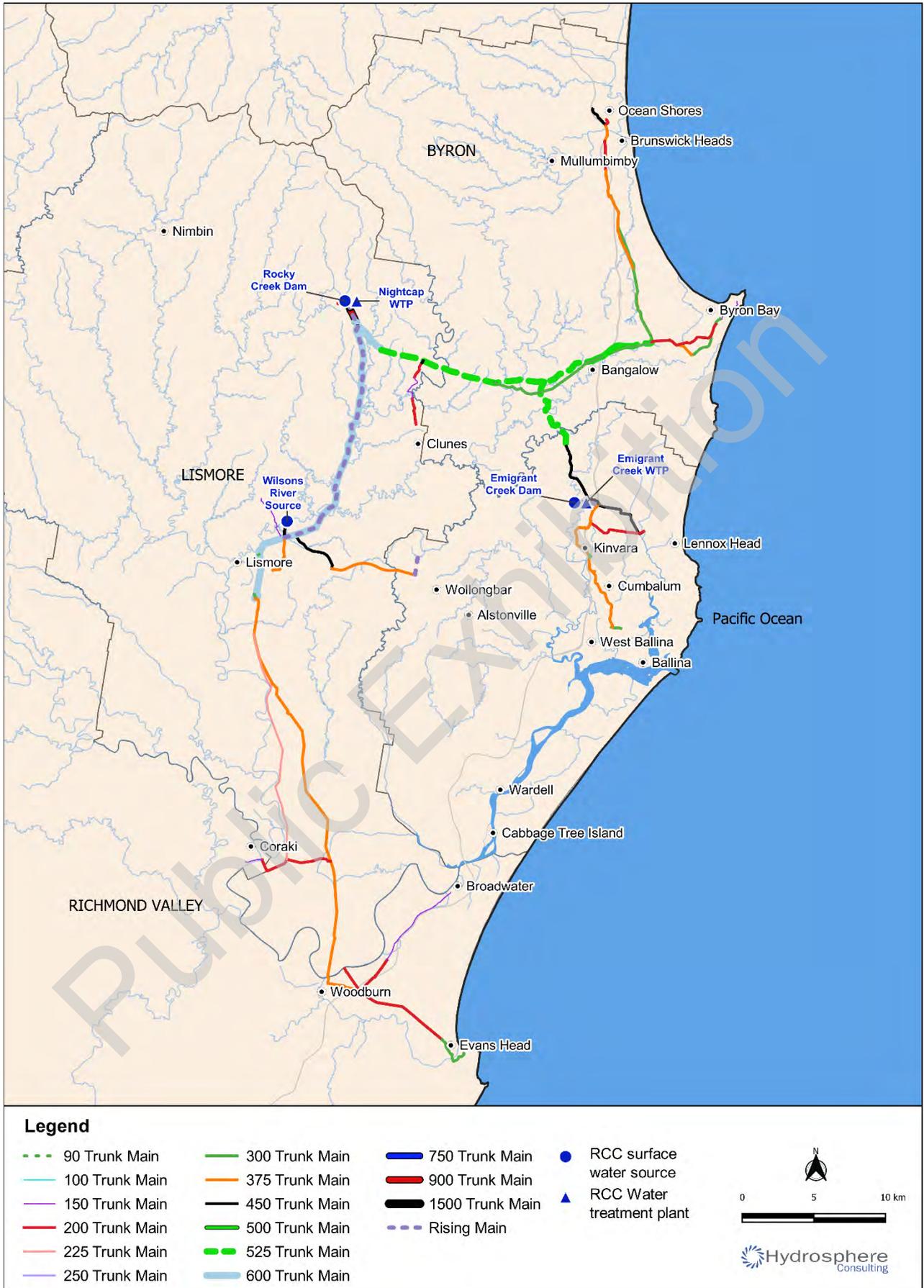


Figure 2: DSP area – RCC bulk water supply

APPENDIX 2 DSP BACKGROUND DOCUMENT

Public Exhibition

Table 6: Existing bulk water supply assets included in the capital charge (2022 \$)

Asset ID	Description	Area	Value	Install year
88	Reservoir	Reservoirs	\$2,717,000	1969
96	Water Filling Station - Struct	Fluoride	\$11,000	2007
108	Bulk Meter	Reservoirs	\$14,500	2006
115	Reservoir	Reservoirs	\$375,000	1992
117	Reservoir	Reservoirs	\$235,000	1992
132	Educational Sign	ECD	\$4,450	2003
133	Educational Sign	ECD	\$4,450	2003
134	Educational Sign	ECD	\$4,450	2003
135	Educational Sign	ECD	\$4,450	2003
136	Educational Sign	ECD	\$4,450	2003
137	Educational Sign	ECD	\$4,450	2003
138	Educational Sign	ECD	\$4,450	2003
139	Educational Sign	ECD	\$4,450	2003
140	Educational Sign	ECD	\$4,450	2003
141	Educational Sign	ECD	\$4,450	2003
142	Educational Sign	ECD	\$4,450	2003
143	Educational Sign	ECD	\$4,450	2001
144	Educational Sign	ECD	\$4,450	2003
145	Educational Sign	ECD	\$4,450	2003
147	Educational Sign	ECD	\$4,450	2003
148	Educational Sign	ECD	\$4,450	2001
149	Educational Sign	ECD	\$4,450	2001
150	Bench	ECD	\$5,300	2003
151	Bench	ECD	\$1,900	2006
152	Bench	ECD	\$1,900	2006
153	Bench	ECD	\$1,900	2006
154	Bench	ECD	\$1,900	2006
155	Bench	ECD	\$1,900	2006
156	Gate	ECD	\$1,300	2006
157	Gate	ECD	\$1,300	2006
158	Gate	ECD	\$1,600	2006
159	Gate	ECD	\$1,600	2006
160	Gate	ECD	\$1,600	2001
163	Information Sign	ECD	\$750	2003
164	Information Sign	ECD	\$750	2006
165	Information Sign	ECD	\$750	2003
166	Information Sign	ECD	\$750	2006
167	Information Sign	ECD	\$750	2003
168	Information Sign	ECD	\$750	2001
169	Information Sign	ECD	\$750	2006

Asset ID	Description	Area	Value	Install year
170	Information Sign	ECD	\$2,700	2006
173	Information Sign	ECD	\$750	2006
181	Hazard Sign	ECD	\$650	2006
182	Hazard Sign	ECD	\$650	2006
183	Hazard Sign	ECD	\$650	2006
184	Hazard Sign	ECD	\$650	2006
185	Hazard Sign	ECD	\$650	2006
186	Hazard Sign	ECD	\$650	2006
187	Hazard Sign	ECD	\$650	2006
188	Hazard Sign	ECD	\$650	2006
189	Hazard Sign	ECD	\$650	2006
190	Hazard Sign	ECD	\$650	2006
191	Hazard Sign	ECD	\$650	2006
192	Hazard Sign	ECD	\$650	2003
193	Hazard Sign	ECD	\$650	2006
194	Hazard Sign	ECD	\$650	2006
195	Hazard Sign	ECD	\$650	2006
196	Hazard Sign	ECD	\$650	2006
197	Hazard Sign	ECD	\$650	2006
198	Hazard Sign	ECD	\$650	2006
199	Hazard Sign	ECD	\$650	2006
200	Hazard Sign	ECD	\$650	2006
201	Hazard Sign	ECD	\$650	2003
202	Hazard Sign	ECD	\$650	2006
203	Hazard Sign	ECD	\$650	2006
204	Sealed Road	ECD	\$46,350	2002
205	Unsealed Road	ECD	\$2,330	1994
206	Board Walk	ECD	\$64,000	2003
207	Board Walk	ECD	\$21,000	2006
208	Board Walk	ECD	\$21,000	2003
212	Dam	ECD	\$15,950,000	1964
214	Dam Instrumentation	ECD	\$22,000	2005
218	Compressor	ECD	\$16,000	2008
219	Aerator	ECD	\$43,000	2009
220	Outlet Works	ECD	\$35,000	1964
235	Dose Pump	ECWTP	\$6,500	2006
236	Dose Pump	ECWTP	\$6,500	2006
237	Valve	ECWTP	\$220	2006
238	Valve	ECWTP	\$220	2006
239	Valve	ECWTP	\$220	2006
240	Valve	ECWTP	\$220	2006
241	Valve	ECWTP	\$220	2006

Asset ID	Description	Area	Value	Install year
242	Storage Tank	ECWTP	\$2,700	2006
243	Ultrasonic Level Sensor	ECWTP	\$3,800	2006
253	Valve	ECWTP	\$5,200	2006
254	Filter	ECWTP	\$280,000	2006
255	Valve	ECWTP	\$4,600	2006
256	Valve	ECWTP	\$5,200	2006
257	Valve	ECWTP	\$5,200	2006
258	Filter	ECWTP	\$280,000	2006
259	Valve	ECWTP	\$4,600	2006
260	Valve	ECWTP	\$5,200	2006
261	DP Pressure Transmitter	ECWTP	\$5,800	2006
262	DP Pressure Transmitter	ECWTP	\$5,800	2006
263	DP Level Sensor	ECWTP	\$6,500	2006
264	DP Level Sensor	ECWTP	\$6,500	2006
265	Centrifugal Pump	ECWTP	\$27,500	2006
266	Centrifugal Pump	ECWTP	\$27,500	2006
267	Valve	ECWTP	\$5,400	2006
268	Valve	ECWTP	\$5,400	2006
269	Static Mixer	ECWTP	\$9,400	2006
270	Process Flow Meter	ECWTP	\$9,900	2006
271	Dose Pump	ECWTP	\$6,500	2006
272	Dose Pump	ECWTP	\$6,500	2006
273	Dose Pump	ECWTP	\$10,800	2006
274	Dose Pump	ECWTP	\$10,800	2006
275	Valve	ECWTP	\$270	2006
276	Valve	ECWTP	\$270	2006
277	Valve	ECWTP	\$320	2006
278	Valve	ECWTP	\$320	2006
279	Valve	ECWTP	\$270	2006
280	Valve	ECWTP	\$320	2006
281	Valve	ECWTP	\$220	2006
282	Valve	ECWTP	\$220	2006
283	Valve	ECWTP	\$270	2006
284	Valve	ECWTP	\$320	2006
285	Storage Tank	ECWTP	\$3,200	2006
286	Ultrasonic Level Sensor	ECWTP	\$3,800	2006
287	Safety Shower	ECWTP	\$2,700	2006
288	Safety Shower	ECWTP	\$2,700	2006
289	Safety Shower	ECWTP	\$2,700	2006
290	Safety Shower	ECWTP	\$2,700	2006
291	Safety Shower	ECWTP	\$2,700	2006
293	Building	ECWTP	\$274,286	2006

Asset ID	Description	Area	Value	Install year
294	Building	ECWTP	\$22,881	2006
295	Building	ECWTP	\$2,219	2006
296	Bunding	ECWTP	\$86,000	2006
297	Power Supply and Cabling	ECWTP	\$750,000	2006
298	Pipework/Fitting	ECWTP	\$2,965,000	2006
300	Valve	ECWTP	\$320	2006
301	Switchboard	ECWTP	\$160,000	2006
302	Switchboard	ECWTP	\$320,000	2006
303	Switchboard	ECWTP	\$255,000	2006
304	Centrifugal Pump	ECWTP	\$23,500	2006
305	Centrifugal Pump	ECWTP	\$23,500	2006
306	Valve	ECWTP	\$5,400	2006
307	Valve	ECWTP	\$5,400	2006
308	Backflow Prevention Device	ECWTP	\$1,600	2006
309	Valve	ECWTP	\$380	2006
310	Valve	ECWTP	\$380	2006
311	Valve	ECWTP	\$380	2006
312	Valve	ECWTP	\$320	2006
314	Storage Tank	ECWTP	\$9,400	2006
315	pH Analyser	ECWTP	\$9,200	2006
316	Turbidity Analyser	ECWTP	\$10,000	2006
319	DP Level Sensor	ECWTP	\$5,800	2006
320	Valve	ECWTP	\$5,200	2006
321	Valve	ECWTP	\$5,200	2006
322	Valve	ECWTP	\$5,200	2006
323	Submersible Pump	ECWTP	\$48,000	2006
324	Submersible Pump	ECWTP	\$48,000	2006
325	Valve	ECWTP	\$5,400	2006
326	Valve	ECWTP	\$5,400	2006
327	Valve	ECWTP	\$5,400	2006
328	Structure	ECWTP	\$541,300	2006
329	Turbidity Analyser	ECWTP	\$10,000	2006
330	pH Analyser	ECWTP	\$9,200	2006
332	Hoist	ECWTP	\$12,900	2006
333	Pipework/Fitting	ECWTP	\$55,000	2006
334	Pipework/Fitting	ECWTP	\$52,000	2006
335	Pipework/Fitting	ECWTP	\$125,000	2006
336	Valve	ECWTP	\$5,200	2006
337	Centrifugal Pump	ECWTP	\$15,500	2006
338	Centrifugal Pump	ECWTP	\$15,500	2006
339	Valve	ECWTP	\$3,200	2006
340	Valve	ECWTP	\$3,200	2006

Asset ID	Description	Area	Value	Install year
341	Structural Tank	ECWTP	\$410,000	2006
342	Process Flow Meter	ECWTP	\$8,200	2006
343	DP Level Sensor	ECWTP	\$5,800	2006
344	Dose Pump	ECWTP	\$10,800	2006
345	Dose Pump	ECWTP	\$10,800	2006
346	Valve	ECWTP	\$320	2006
347	Valve	ECWTP	\$320	2006
348	Valve	ECWTP	\$320	2006
349	Valve	ECWTP	\$320	2006
350	Storage Tank	ECWTP	\$2,700	2006
351	Ultrasonic Level Sensor	ECWTP	\$3,800	2006
352	Dose Pump	ECWTP	\$6,500	2006
353	Dose Pump	ECWTP	\$6,500	2006
354	Dose Pump	ECWTP	\$11,800	2006
355	Dose Pump	ECWTP	\$11,800	2006
356	Valve	ECWTP	\$220	2006
357	Valve	ECWTP	\$220	2006
358	Valve	ECWTP	\$320	2006
359	Valve	ECWTP	\$320	2006
360	Valve	ECWTP	\$220	2006
361	Valve	ECWTP	\$320	2006
362	Valve	ECWTP	\$220	2006
363	Valve	ECWTP	\$320	2006
364	Valve	ECWTP	\$320	2006
365	Storage Tank	ECWTP	\$3,200	2006
366	Ultrasonic Level Sensor	ECWTP	\$3,800	2006
367	Laboratory Equipment	ECWTP	\$2,700	2006
368	Laboratory Equipment	ECWTP	\$11,400	2006
370	Laboratory Equipment	ECWTP	\$3,900	2006
371	Valve	ECWTP	\$270	2006
372	Valve	ECWTP	\$270	2006
373	Air Extractor	ECWTP	\$9,400	2006
374	Bin Activator	ECWTP	\$8,100	2006
375	Dry Feeder	ECWTP	\$21,500	2006
376	Dry Feeder	ECWTP	\$21,500	2006
377	Mixer	ECWTP	\$3,800	2006
378	Mixer	ECWTP	\$3,800	2006
379	Vibrator	ECWTP	\$4,300	2006
380	Vibrator	ECWTP	\$4,300	2006
381	Valve	ECWTP	\$800	2006
382	Backflow Prevention Device	ECWTP	\$1,300	2006
383	Valve	ECWTP	\$220	2006

Asset ID	Description	Area	Value	Install year
384	Valve	ECWTP	\$220	2006
385	Valve	ECWTP	\$220	2006
386	Valve	ECWTP	\$220	2006
387	Valve	ECWTP	\$380	2006
388	Valve	ECWTP	\$380	2006
389	Silo	ECWTP	\$195,000	2006
390	Batching Unit	ECWTP	\$17,600	2006
391	Batching Unit	ECWTP	\$17,600	2006
393	Compressor	ECWTP	\$19,700	2006
395	Cartridge Filter	ECWTP	\$4,300	2006
396	Cartridge Filter	ECWTP	\$4,300	2006
399	Valve	ECWTP	\$220	2006
400	Valve	ECWTP	\$220	2006
401	Valve	ECWTP	\$220	2006
402	Air Receiver	ECWTP	\$21,500	2006
403	Valve	ECWTP	\$160	2006
404	Ozone Destructor	ECWTP	\$65,000	2006
405	Structural Tank	ECWTP	\$235,000	2006
407	Valve	ECWTP	\$600	2006
408	Valve	ECWTP	\$430	2006
409	Valve	ECWTP	\$220	2006
410	Valve	ECWTP	\$220	2006
411	Valve	ECWTP	\$270	2006
412	Ozone Generator	ECWTP	\$590,000	2006
413	Ozone Analyser	ECWTP	\$17,200	2006
414	Ozone Analyser	ECWTP	\$17,200	2006
415	Ozone Analyser	ECWTP	\$17,200	2006
416	Temperature Gauge	ECWTP	\$9,200	2006
417	Ozone Analyser	ECWTP	\$10,800	2006
418	Valve	ECWTP	\$160	2006
419	Mixer	ECWTP	\$4,300	2006
420	Dose Pump	ECWTP	\$6,500	2006
421	Dose Pump	ECWTP	\$6,500	2006
422	Valve	ECWTP	\$220	2006
423	Valve	ECWTP	\$220	2006
424	Valve	ECWTP	\$220	2006
425	Valve	ECWTP	\$220	2006
426	Batching Unit	ECWTP	\$800	2006
427	Ultrasonic Level Sensor	ECWTP	\$3,800	2006
428	Valve	ECWTP	\$160	2006
429	Dose Pump	ECWTP	\$10,800	2006
430	Dose Pump	ECWTP	\$10,800	2006

Asset ID	Description	Area	Value	Install year
431	Valve	ECWTP	\$320	2006
432	Valve	ECWTP	\$320	2006
433	Valve	ECWTP	\$320	2006
434	Valve	ECWTP	\$320	2006
435	Valve	ECWTP	\$380	2006
436	Storage Tank	ECWTP	\$12,800	2006
437	Ultrasonic Level Sensor	ECWTP	\$3,800	2006
438	Centrifugal Pump	ECWTP	\$16,200	2006
439	Centrifugal Pump	ECWTP	\$16,200	2006
440	Valve	ECWTP	\$600	2006
441	Centrifugal Pump	ECWTP	\$27,000	2006
442	Centrifugal Pump	ECWTP	\$27,000	2006
443	Centrifugal Pump	ECWTP	\$7,000	2006
444	Valve	ECWTP	\$160	2006
445	Valve	ECWTP	\$5,400	2006
446	Valve	ECWTP	\$5,400	2006
447	Valve	ECWTP	\$2,700	2006
448	Valve	ECWTP	\$2,700	2006
449	Valve	ECWTP	\$2,700	2006
450	Valve	ECWTP	\$1,000	2006
451	Strainer	ECWTP	\$23,700	2006
452	Strainer	ECWTP	\$23,700	2006
453	Strainer	ECWTP	\$23,700	2006
454	Structure	ECWTP	\$110,000	2006
455	Structural Tank	ECWTP	\$9,700	2006
456	Valve	ECWTP	\$430	2006
457	Valve	ECWTP	\$430	2006
458	Valve	ECWTP	\$430	2006
459	Valve	ECWTP	\$1,600	2006
461	Valve	ECWTP	\$220	2006
462	Structure	ECWTP	\$48,000	2006
463	Valve	ECWTP	\$2,200	2006
464	Valve	ECWTP	\$2,200	2006
465	Valve	ECWTP	\$2,800	2006
466	Valve	ECWTP	\$2,800	2006
467	Valve	ECWTP	\$2,800	2006
468	Valve	ECWTP	\$2,800	2006
469	Valve	ECWTP	\$2,800	2006
470	Valve	ECWTP	\$2,800	2006
471	Valve	ECWTP	\$320	2006
472	Valve	ECWTP	\$320	2006
473	Valve	ECWTP	\$270	2006

Asset ID	Description	Area	Value	Install year
474	Valve	ECWTP	\$1,600	2006
476	Valve	ECWTP	\$220	2006
477	Structure	ECWTP	\$48,000	2006
478	Valve	ECWTP	\$2,200	2006
479	Valve	ECWTP	\$2,200	2006
480	Valve	ECWTP	\$2,800	2006
481	Valve	ECWTP	\$2,800	2006
482	Valve	ECWTP	\$2,800	2006
483	Valve	ECWTP	\$2,800	2006
484	Valve	ECWTP	\$2,800	2006
485	Valve	ECWTP	\$2,800	2006
486	Valve	ECWTP	\$320	2006
487	Valve	ECWTP	\$320	2006
488	Valve	ECWTP	\$270	2006
489	Valve	ECWTP	\$1,600	2006
491	Valve	ECWTP	\$220	2006
492	Structure	ECWTP	\$48,000	2006
493	Valve	ECWTP	\$2,200	2006
494	Valve	ECWTP	\$2,200	2006
495	Valve	ECWTP	\$2,800	2006
496	Valve	ECWTP	\$2,800	2006
497	Valve	ECWTP	\$2,800	2006
498	Valve	ECWTP	\$2,800	2006
499	Valve	ECWTP	\$2,800	2006
500	Valve	ECWTP	\$2,800	2006
501	Valve	ECWTP	\$320	2006
502	Valve	ECWTP	\$320	2006
503	Valve	ECWTP	\$270	2006
504	pH Analyser	ECWTP	\$9,200	2006
505	Turbidity Analyser	ECWTP	\$10,000	2006
506	Process Flow Meter	ECWTP	\$3,000	2006
507	Process Flow Meter	ECWTP	\$7,600	2006
508	Process Flow Meter	ECWTP	\$7,600	2006
509	Process Flow Meter	ECWTP	\$7,600	2006
510	DP Level Sensor	ECWTP	\$5,800	2006
511	Temperature Gauge	ECWTP	\$3,200	2006
512	Submersible Pump	ECWTP	\$5,400	2006
513	Valve	ECWTP	\$320	2006
514	Valve	ECWTP	\$800	2006
515	Scraper	ECWTP	\$16,200	2006
516	Centrifugal Pump	ECWTP	\$10,200	2006
517	Centrifugal Pump	ECWTP	\$10,200	2006

Asset ID	Description	Area	Value	Install year
518	Centrifugal Pump	ECWTP	\$10,200	2006
519	Centrifugal Pump	ECWTP	\$10,200	2006
520	Centrifugal Pump	ECWTP	\$12,500	2006
521	Valve	ECWTP	\$2,200	2006
522	Valve	ECWTP	\$2,200	2006
523	Valve	ECWTP	\$2,200	2006
524	Valve	ECWTP	\$2,200	2006
525	Valve	ECWTP	\$2,200	2006
526	Backflow Prevention Device	ECWTP	\$16,200	2006
527	Structural Tank	ECWTP	\$260,000	2006
528	Structural Tank	ECWTP	\$472,000	2006
529	Structural Tank	ECWTP	\$315,500	2006
530	Valve	ECWTP	\$800	2006
531	Valve	ECWTP	\$320	2006
532	Submersible Pump	ECWTP	\$16,200	2006
533	Submersible Pump	ECWTP	\$23,700	2006
534	Valve	ECWTP	\$380	2006
535	Valve	ECWTP	\$380	2006
536	Filter	ECWTP	\$60,000	2006
537	Filter	ECWTP	\$60,000	2006
538	Filter	ECWTP	\$60,000	2006
539	Filter	ECWTP	\$60,000	2006
540	Filter	ECWTP	\$60,000	2006
541	Filter	ECWTP	\$60,000	2006
542	Structural Tank	ECWTP	\$25,500	2006
543	Turbidity Analyser	ECWTP	\$10,000	2006
544	pH Analyser	ECWTP	\$9,200	2006
545	Filter Media	ECWTP	\$2,600	2006
546	Filter Media	ECWTP	\$2,600	2006
547	Filter Media	ECWTP	\$2,600	2006
548	Filter Media	ECWTP	\$2,600	2006
549	Filter Media	ECWTP	\$2,600	2006
550	Filter Media	ECWTP	\$2,600	2006
551	Process Flow Meter	ECWTP	\$7,600	2006
552	DP Level Sensor	ECWTP	\$5,800	2006
553	DP Level Sensor	ECWTP	\$5,800	2006
554	Structural Tank	ECWTP	\$25,500	2006
556	Fencing	ECWTP	\$46,300	2006
557	Site Lighting	ECWTP	\$35,000	2006
558	Sealed Road	ECWTP	\$383,200	2006
559	Stormwater Drainage	ECWTP	\$114,000	2006
560	Alarm System	ECWTP	\$5,400	2006

Asset ID	Description	Area	Value	Install year
561	SCADA	ECWTP	\$53,000	2006
562	Fire Service	ECWTP	\$9,400	2006
563	PF Correction	ECWTP	\$34,500	2006
564	Phone System	ECWTP	\$32,000	2006
565	PLC	ECWTP	\$430,000	2006
567	UPS	ECWTP	\$8,600	2006
601	Building	WRS	\$95,791	2008
604	Air Extractor	WRS	\$64,600	2008
605	Fencing	WRS	\$17,200	2008
606	Hoist	WRS	\$55,000	2008
609	Level Controller	WRS	\$4,300	2008
610	Pipework/Fitting	WRS	\$175,000	2008
611	Centrifugal Pump	WRS	\$390,000	2008
613	Centrifugal Pump	WRS	\$270,000	2002
614	Centrifugal Pump	WRS	\$270,000	2002
615	Unsealed Road	WRS	\$8,600	2008
616	Roof	WRS	\$94,270	2008
617	Structural Tank	WRS	\$120,000	2002
618	Valve	WRS	\$22,500	2008
619	Valve	WRS	\$22,500	2008
620	Valve	WRS	\$22,500	2008
621	Valve	WRS	\$11,000	2008
622	Valve	WRS	\$11,000	2008
623	Valve	WRS	\$11,000	2008
624	Valve	WRS	\$11,000	2008
625	Valve	WRS	\$11,000	2008
626	Valve	WRS	\$11,000	2008
627	Walkway & Ladder	WRS	\$55,000	2008
630	PLC	WRS	\$87,000	2008
631	Power Supply and Cabling	WRS	\$240,000	2008
632	Switchboard	WRS	\$160,000	2008
633	Switchboard	WRS	\$104,000	2008
634	Switchboard	WRS	\$162,000	2002
647	Pipework/Fitting	Pump Station	\$90,000	1986
648	Reservoir	Reservoirs	\$1,868,000	1950
650	Roof	Reservoirs	\$276,700	2002
2654	VSD	NCWTP	\$23,400	2008
2655	VSD	NCWTP	\$23,400	2008
2656	Centrifugal Pump	NCWTP	\$19,200	1992
2661	Valve	NCWTP	\$220	2003
2662	Valve	NCWTP	\$220	2003
2663	Valve	NCWTP	\$270	2003

Asset ID	Description	Area	Value	Install year
2671	Turbidity Analyser	NCWTP	\$10,000	2008
2672	Air Receiver	NCWTP	\$14,000	2008
2673	DP Pressure Transmitter	NCWTP	\$11,600	2008
2674	DP Pressure Transmitter	NCWTP	\$11,600	2008
2675	DP Pressure Transmitter	NCWTP	\$11,600	2008
2676	DP Pressure Transmitter	NCWTP	\$11,600	2008
2677	DP Pressure Transmitter	NCWTP	\$11,600	2008
2678	DP Pressure Transmitter	NCWTP	\$11,600	2008
2679	Site Lighting	NCWTP	\$37,000	2008
2680	DP Pressure Transmitter	NCWTP	\$5,800	2008
2681	DP Pressure Transmitter	NCWTP	\$5,800	2008
2682	Submersible Pump	NCWTP	\$4,300	2008
2683	Submersible Pump	NCWTP	\$4,300	2008
2684	Pipework/Fitting	NCWTP	\$1,530,000	2008
2685	Structural Tank	NCWTP	\$257,500	2008
2686	Filter	NCWTP	\$700,000	2008
2687	Filter	NCWTP	\$700,000	2008
2688	Filter	NCWTP	\$700,000	2008
2689	Filter	NCWTP	\$700,000	2008
2690	Filter	NCWTP	\$700,000	2008
2691	Filter	NCWTP	\$700,000	2008
2692	Valve	NCWTP	\$9,000	2008
2693	Valve	NCWTP	\$9,000	2008
2694	Valve	NCWTP	\$17,800	2008
2695	Valve	NCWTP	\$9,000	2008
2696	Valve	NCWTP	\$6,500	2008
2697	Valve	NCWTP	\$7,000	2008
2698	Valve	NCWTP	\$9,000	2008
2699	Valve	NCWTP	\$9,000	2008
2700	Valve	NCWTP	\$17,800	2008
2701	Valve	NCWTP	\$9,000	2008
2702	Valve	NCWTP	\$6,500	2008
2703	Valve	NCWTP	\$9,000	2008
2704	Valve	NCWTP	\$9,000	2008
2705	Valve	NCWTP	\$17,800	2008
2706	Valve	NCWTP	\$9,000	2008
2707	Valve	NCWTP	\$6,500	2008
2708	Valve	NCWTP	\$9,000	2008
2709	Valve	NCWTP	\$9,000	2008
2710	Valve	NCWTP	\$17,800	2008
2711	Valve	NCWTP	\$9,000	2008
2712	Valve	NCWTP	\$6,500	2008

Asset ID	Description	Area	Value	Install year
2713	Valve	NCWTP	\$9,000	2008
2714	Valve	NCWTP	\$9,000	2008
2715	Valve	NCWTP	\$17,800	2008
2716	Valve	NCWTP	\$9,000	2008
2717	Valve	NCWTP	\$6,500	2008
2718	Valve	NCWTP	\$9,000	2008
2719	Valve	NCWTP	\$9,000	2008
2720	Valve	NCWTP	\$17,800	2008
2721	Valve	NCWTP	\$9,000	2008
2722	Valve	NCWTP	\$6,500	2008
2723	Process Flow Meter	NCWTP	\$18,000	2008
2724	Centrifugal Pump	NCWTP	\$118,500	1992
2725	Centrifugal Pump	NCWTP	\$118,500	1992
2726	Blower	NCWTP	\$75,400	1992
2727	Blower	NCWTP	\$75,400	1992
2728	Pipework/Fitting	NCWTP	\$1,748,600	1992
2730	Valve	NCWTP	\$11,100	2008
2731	Valve	NCWTP	\$8,600	1992
2732	Valve	NCWTP	\$8,600	1992
2733	Valve	NCWTP	\$5,400	1992
2734	Valve	NCWTP	\$9,600	1992
2736	Submersible Pump	NCWTP	\$10,600	2008
2737	Submersible Pump	NCWTP	\$10,600	2008
2738	Conveyor	NCWTP	\$47,400	2006
2739	Structure	NCWTP	\$301,600	2006
2740	Structural Tank	NCWTP	\$23,400	2006
2741	Valve	NCWTP	\$1,900	2006
2742	Valve	NCWTP	\$1,900	2006
2743	Pipework/Fitting	NCWTP	\$11,827,650	1992
2744	Building	NCWTP	\$486,913	1992
2745	Building	NCWTP	\$138,749	1992
2746	Building	NCWTP	\$9,823	2004
2747	Building	NCWTP	\$46,612	2006
2751	Pipework/Fitting	NCWTP	\$72,500	2008
2753	Valve	NCWTP	\$1,100	2002
2754	Valve	NCWTP	\$1,100	2002
2755	Valve	NCWTP	\$600	2002
2756	pH Analyser	NCWTP	\$9,200	1997
2757	Turbidity Analyser	NCWTP	\$10,000	1997
2759	Aluminium Residual Analyser	NCWTP	\$8,600	2001
2761	Pit	NCWTP	\$53,800	2010
2762	Progressive Cavity	NCWTP	\$4,100	2003

Asset ID	Description	Area	Value	Install year
2763	Pipework/Fitting	NCWTP	\$573,000	2008
2764	Reservoir	NCWTP	\$4,089,000	1992
2765	Valve	NCWTP	\$41,500	1992
2766	Valve	NCWTP	\$26,300	1992
2767	Valve	NCWTP	\$41,500	1992
2768	Process Flow Meter	NCWTP	\$11,900	2008
2769	DP Pressure Transmitter	NCWTP	\$5,800	1992
2770	DP Pressure Transmitter	NCWTP	\$5,800	1992
2774	Switchboard	NCWTP	\$21,500	1992
2775	Switchboard	NCWTP	\$21,500	1992
2776	Switchboard	NCWTP	\$86,200	1992
2778	Filter	NCWTP	\$2,580,000	1992
2779	Filter	NCWTP	\$2,580,000	1992
2780	Filter	NCWTP	\$2,580,000	1992
2781	Filter	NCWTP	\$2,580,000	1992
2782	Filter	NCWTP	\$2,580,000	1992
2783	Filter	NCWTP	\$2,580,000	1992
2784	Saturator Vessel	NCWTP	\$75,400	1992
2785	Saturator Vessel	NCWTP	\$75,400	1992
2786	Valve	NCWTP	\$3,600	2001
2787	Valve	NCWTP	\$3,600	2001
2788	Valve	NCWTP	\$3,600	2001
2789	Valve	NCWTP	\$5,300	1992
2790	Valve	NCWTP	\$5,300	1992
2791	Valve	NCWTP	\$600	1992
2792	Valve	NCWTP	\$600	1992
2793	Valve	NCWTP	\$320	1992
2794	Valve	NCWTP	\$320	1992
2795	Process Flow Meter	NCWTP	\$6,400	2006
2796	Process Flow Meter	NCWTP	\$6,400	2006
2797	Centrifugal Pump	NCWTP	\$43,100	2006
2798	Centrifugal Pump	NCWTP	\$43,100	2006
2799	Centrifugal Pump	NCWTP	\$43,100	2006
2800	Valve	NCWTP	\$220	2006
2801	Valve	NCWTP	\$270	2006
2802	Valve	NCWTP	\$800	2006
2803	Valve	NCWTP	\$5,100	2006
2804	Valve	NCWTP	\$220	2006
2805	Valve	NCWTP	\$270	2006
2806	Valve	NCWTP	\$800	2006
2807	Valve	NCWTP	\$800	2006
2808	Valve	NCWTP	\$5,100	2006

Asset ID	Description	Area	Value	Install year
2809	Saturator Vessel	NCWTP	\$21,000	2006
2810	Saturator Vessel	NCWTP	\$21,000	2006
2812	Switchboard	NCWTP	\$46,700	1992
2814	Switchboard	NCWTP	\$46,700	1992
2816	Switchboard	NCWTP	\$46,700	1992
2835	Flocculator	NCWTP	\$81,900	1992
2837	Flocculator	NCWTP	\$93,500	1992
2839	Flocculator	NCWTP	\$81,900	1992
2841	Flocculator	NCWTP	\$93,500	1992
2843	Flocculator	NCWTP	\$81,900	1992
2845	Flocculator	NCWTP	\$93,500	1992
2847	Flocculator	NCWTP	\$81,900	1992
2849	Flocculator	NCWTP	\$93,500	1992
2851	Flocculator	NCWTP	\$81,900	1992
2853	Flocculator	NCWTP	\$93,500	1992
2855	Flocculator	NCWTP	\$81,900	1992
2857	Flocculator	NCWTP	\$93,500	1992
2859	Progressive Cavity	NCWTP	\$4,100	2003
2861	Valve	NCWTP	\$18,700	1992
2862	Valve	NCWTP	\$7,000	1992
2863	Valve	NCWTP	\$7,000	1992
2864	Valve	NCWTP	\$5,500	1992
2866	Valve	NCWTP	\$18,700	1992
2867	Valve	NCWTP	\$7,000	1992
2868	Valve	NCWTP	\$7,000	1992
2869	Valve	NCWTP	\$5,500	1992
2871	Valve	NCWTP	\$18,700	1992
2872	Valve	NCWTP	\$7,000	1992
2873	Valve	NCWTP	\$7,000	1992
2874	Valve	NCWTP	\$5,500	1992
2876	Valve	NCWTP	\$18,700	1992
2877	Valve	NCWTP	\$7,000	1992
2878	Valve	NCWTP	\$7,000	1992
2879	Valve	NCWTP	\$5,500	1992
2881	Valve	NCWTP	\$18,700	1992
2882	Valve	NCWTP	\$7,000	1992
2883	Valve	NCWTP	\$7,000	1992
2884	Valve	NCWTP	\$5,500	1992
2886	Valve	NCWTP	\$18,700	1992
2887	Valve	NCWTP	\$7,000	1992
2888	Valve	NCWTP	\$7,000	1992
2889	Valve	NCWTP	\$5,500	1992

Asset ID	Description	Area	Value	Install year
2890	Valve	NCWTP	\$5,300	2004
2891	Valve	NCWTP	\$5,300	1992
2892	Valve	NCWTP	\$5,300	1992
2893	Valve	NCWTP	\$5,300	1992
2894	Valve	NCWTP	\$5,300	1992
2895	Valve	NCWTP	\$5,300	1992
2896	Process Flow Meter	NCWTP	\$4,600	1992
2897	Switchboard	NCWTP	\$32,000	2008
2898	Centrifugal Pump	NCWTP	\$37,700	1992
2899	Centrifugal Pump	NCWTP	\$37,700	1992
2900	Switchboard	NCWTP	\$65,000	1992
2901	Building	NCWTP	\$30,017	1992
2902	Valve	NCWTP	\$3,200	1992
2903	Valve	NCWTP	\$3,200	1992
2904	Valve	NCWTP	\$600	1992
2905	Backflow Prevention Device	NCWTP	\$1,600	2006
2906	Valve	NCWTP	\$380	2006
2907	pH Analyser	NCWTP	\$9,200	2006
2908	pH Analyser	NCWTP	\$9,200	2006
2909	Rotameter	NCWTP	\$430	2006
2910	Process Flow Meter	NCWTP	\$8,200	2006
2911	Ultrasonic Level Sensor	NCWTP	\$3,800	2006
2913	Dosing sparge	NCWTP	\$16,200	2006
2914	Centrifugal Pump	NCWTP	\$3,300	2006
2915	Centrifugal Pump	NCWTP	\$19,200	2006
2916	Centrifugal Pump	NCWTP	\$19,200	2006
2917	Pressure Reducing Valve	NCWTP	\$300	2006
2918	Pipework/Fitting	NCWTP	\$58,500	1992
2919	Pipework/Fitting	NCWTP	\$81,900	2006
2920	Structural Tank	NCWTP	\$1,165,000	2006
2921	Structural Tank	NCWTP	\$140,000	2008
2922	Valve	NCWTP	\$3,600	2006
2923	Valve	NCWTP	\$3,600	2006
2924	Valve	NCWTP	\$6,200	2006
2925	Valve	NCWTP	\$270	2006
2926	Valve	NCWTP	\$160	2006
2927	Valve	NCWTP	\$220	2006
2928	Turbidity Analyser	NCWTP	\$10,000	2006
2929	Process Flow Meter	NCWTP	\$8,200	2006
2930	Structure	NCWTP	\$17,600	2010
2931	Ultrasonic Level Sensor	NCWTP	\$3,800	2006
2932	Scraper	NCWTP	\$75,400	2006

Asset ID	Description	Area	Value	Install year
2933	Scraper	NCWTP	\$75,400	2006
2934	Scraper	NCWTP	\$51,700	2006
2935	Scraper	NCWTP	\$51,700	2006
2936	Centrifugal Pump	NCWTP	\$3,300	2006
2937	Centrifugal Pump	NCWTP	\$30,400	2006
2938	Centrifugal Pump	NCWTP	\$30,400	2006
2939	Conveyor	NCWTP	\$32,300	2006
2940	Conveyor	NCWTP	\$32,300	2006
2941	Structural Tank	NCWTP	\$645,200	2006
2942	Structural Tank	NCWTP	\$35,100	2006
2943	Structural Tank	NCWTP	\$645,200	2006
2944	Valve	NCWTP	\$6,200	2006
2945	Valve	NCWTP	\$380	2006
2946	Valve	NCWTP	\$380	2006
2947	Valve	NCWTP	\$380	2006
2948	Valve	NCWTP	\$380	2006
2949	Valve	NCWTP	\$5,300	2006
2950	Valve	NCWTP	\$6,200	2006
2951	Valve	NCWTP	\$380	2006
2952	Valve	NCWTP	\$380	2006
2953	Valve	NCWTP	\$380	2006
2954	Valve	NCWTP	\$380	2006
2955	Valve	NCWTP	\$5,300	2006
2956	Valve	NCWTP	\$3,200	2006
2957	Valve	NCWTP	\$3,200	2006
2958	Valve	NCWTP	\$270	2006
2959	Valve	NCWTP	\$6,500	2006
2960	Valve	NCWTP	\$6,500	2006
2961	pH Analyser	NCWTP	\$9,200	1997
2963	Bulk Meter	NCWTP	\$23,400	2006
2965	Switchboard	NCWTP	\$51,500	2008
2970	Progressive Cavity	NCWTP	\$4,100	2003
2972	Rising Main	NCWTP	\$1,260,000	1992
2974	Structure	NCWTP	\$1,225,000	1992
2975	Building	NCWTP	\$176,856	1992
2977	Valve	NCWTP	\$33,900	1992
2978	Dosing sparge	NCWTP	\$5,800	2008
2979	VSD	NCWTP	\$28,400	2008
2983	Switchboard	NCWTP	\$64,600	2008
2984	Storage Tank	NCWTP	\$8,200	2004
2985	Storage Tank	NCWTP	\$8,200	2004
2986	Valve	NCWTP	\$220	2001

Asset ID	Description	Area	Value	Install year
2987	Valve	NCWTP	\$220	2001
2988	Valve	NCWTP	\$220	2001
2989	Laboratory Equipment	NCWTP	\$3,900	2005
2990	Laboratory Equipment	NCWTP	\$11,400	2005
2991	Laboratory Equipment	NCWTP	\$5,800	2005
2992	Process Flow Meter	NCWTP	\$5,600	2008
2993	Mixer	NCWTP	\$4,600	1992
2994	Mixer	NCWTP	\$4,600	1992
3001	Bin Activator	NCWTP	\$8,100	1992
3005	Pipework/Fitting	NCWTP	\$54,000	2008
3006	Pipework/Fitting	NCWTP	\$29,200	2008
3007	Switchboard	NCWTP	\$35,100	2001
3009	Structural Tank	NCWTP	\$701,500	1992
3012	Strain gauge	NCWTP	\$3,200	1992
3015	Mixer	NCWTP	\$6,500	2006
3019	Process Flow Meter	NCWTP	\$8,200	2001
3021	Dose Pump	NCWTP	\$11,800	2001
3022	Dose Pump	NCWTP	\$11,800	2001
3025	Pipework/Fitting	NCWTP	\$12,900	1992
3026	Valve	NCWTP	\$270	2001
3027	Valve	NCWTP	\$270	2001
3030	Air Dryer	NCWTP	\$17,600	1992
3031	Air Dryer	NCWTP	\$17,600	1992
3032	Cartridge Filter	NCWTP	\$4,000	1992
3033	Cartridge Filter	NCWTP	\$4,000	1992
3034	Switchboard	NCWTP	\$40,900	1992
3035	Air Receiver	NCWTP	\$32,300	1992
3036	Valve	NCWTP	\$220	1992
3037	Valve	NCWTP	\$160	1992
3038	Valve	NCWTP	\$11,100	1992
3039	Valve	NCWTP	\$11,100	1992
3040	Valve	NCWTP	\$320	1992
3041	Ozone Analyser	NCWTP	\$9,400	2008
3042	Ozone Analyser	NCWTP	\$19,400	2008
3043	Building	NCWTP	\$107,392	2008
3044	Ozone Destructor	NCWTP	\$129,200	2008
3045	Process Flow Meter	NCWTP	\$7,200	2008
3046	Switchboard	NCWTP	\$429,800	2008
3047	Static Mixer	NCWTP	\$29,200	2008
3048	Ozone Generator	NCWTP	\$860,600	2008
3049	Ozone Generator	NCWTP	\$860,600	2008
3050	Ozone Generator	NCWTP	\$860,600	2008

Asset ID	Description	Area	Value	Install year
3051	Progressive Cavity	NCWTP	\$4,100	2008
3052	Centrifugal Pump	NCWTP	\$18,700	2008
3053	Centrifugal Pump	NCWTP	\$18,700	2008
3054	Pipework/Fitting	NCWTP	\$492,400	2008
3056	Structural Tank	NCWTP	\$2,583,700	2008
3072	Vacuum Loader	NCWTP	\$3,600	2003
3073	Vacuum Loader	NCWTP	\$3,600	2003
3074	VSD	NCWTP	\$24,800	2008
3075	VSD	NCWTP	\$24,800	2008
3076	Dose Pump	NCWTP	\$11,700	2003
3077	Dose Pump	NCWTP	\$11,700	2003
3078	Switchboard	NCWTP	\$43,100	2008
3079	Batching Unit	NCWTP	\$28,000	2003
3080	Batching Unit	NCWTP	\$28,000	2003
3081	Valve	NCWTP	\$270	2003
3082	Valve	NCWTP	\$220	2003
3083	Oxygen Analyser	NCWTP	\$9,400	2008
3085	Compressor	NCWTP	\$86,200	2008
3086	Compressor	NCWTP	\$86,200	2008
3087	Compressor	NCWTP	\$86,200	2008
3088	Process Flow Meter	NCWTP	\$6,000	2008
3089	Air Receiver	NCWTP	\$14,000	2008
3090	PSA	NCWTP	\$24,700	2008
3091	PSA	NCWTP	\$24,700	2008
3092	Oxygen Receiver	NCWTP	\$19,900	2008
3093	Air Receiver	NCWTP	\$14,000	2008
3094	PSA	NCWTP	\$24,700	2008
3095	PSA	NCWTP	\$24,700	2008
3096	PSA	NCWTP	\$24,700	2008
3097	PSA	NCWTP	\$24,700	2008
3099	pH Analyser	NCWTP	\$9,200	2008
3100	Turbidity Analyser	NCWTP	\$10,000	2008
3101	pH Analyser	NCWTP	\$9,200	2008
3103	Progressive Cavity	NCWTP	\$4,100	2008
3104	Progressive Cavity	NCWTP	\$4,100	2008
3105	Submersible Pump	NCWTP	\$4,300	2008
3106	Submersible Pump	NCWTP	\$900	2008
3107	Pipework/Fitting	NCWTP	\$422,300	2008
3109	Structural Tank	NCWTP	\$430,000	2008
3111	Level Sensor	NCWTP	\$3,800	2008
3112	Centrifugal Pump	NCWTP	\$65,500	2008
3113	Centrifugal Pump	NCWTP	\$65,500	2008

Asset ID	Description	Area	Value	Install year
3114	Centrifugal Pump	NCWTP	\$65,500	2008
3115	Centrifugal Pump	NCWTP	\$65,500	2008
3116	Pipework/Fitting	NCWTP	\$843,100	2008
3117	Structural Tank	NCWTP	\$430,000	2008
3118	Valve	NCWTP	\$7,000	2008
3119	Valve	NCWTP	\$33,900	2008
3120	Valve	NCWTP	\$12,600	2008
3121	Valve	NCWTP	\$7,900	2008
3122	Valve	NCWTP	\$12,600	2008
3123	Valve	NCWTP	\$7,900	2008
3124	Valve	NCWTP	\$12,600	2008
3125	Valve	NCWTP	\$7,900	2008
3126	Valve	NCWTP	\$12,600	2008
3127	Valve	NCWTP	\$7,900	2008
3128	Air Receiver	NCWTP	\$10,000	2006
3131	Air Dryer	NCWTP	\$7,000	2006
3134	Pressure transmitter	NCWTP	\$1,350	2006
3137	Valve	NCWTP	\$220	2006
3138	Valve	NCWTP	\$220	2006
3139	Rotameter	NCWTP	\$430	2006
3140	Rotameter	NCWTP	\$430	2006
3141	Vacuum Loader	NCWTP	\$5,300	2006
3142	Conveyor	NCWTP	\$16,200	2006
3143	Mixer	NCWTP	\$5,400	2006
3144	Dose Pump	NCWTP	\$12,900	2006
3148	Batching Unit	NCWTP	\$11,700	2006
3149	Valve	NCWTP	\$220	2006
3150	Valve	NCWTP	\$270	2006
3151	Valve	NCWTP	\$270	2006
3152	Valve	NCWTP	\$270	2006
3153	Valve	NCWTP	\$270	2006
3154	Valve	NCWTP	\$220	2006
3155	Valve	NCWTP	\$220	2006
3156	Valve	NCWTP	\$220	2006
3157	Valve	NCWTP	\$160	2006
3158	Valve	NCWTP	\$270	2006
3159	Valve	NCWTP	\$220	2006
3160	Valve	NCWTP	\$160	2006
3161	Backflow Prevention Device	NCWTP	\$500	2006
3162	Valve	NCWTP	\$270	2006
3163	Valve	NCWTP	\$380	2006
3164	Process Flow Meter	NCWTP	\$5,600	2006

Asset ID	Description	Area	Value	Install year
3165	Ultrasonic Level Sensor	NCWTP	\$3,800	2006
3166	Mixer	NCWTP	\$12,900	2006
3167	Progressive Cavity	NCWTP	\$8,200	2006
3168	Progressive Cavity	NCWTP	\$8,200	2006
3169	Structural Tank	NCWTP	\$43,100	2006
3170	Structural Tank	NCWTP	\$64,600	2006
3171	Valve	NCWTP	\$320	2006
3172	Valve	NCWTP	\$430	2006
3173	Valve	NCWTP	\$430	2006
3174	Valve	NCWTP	\$430	2006
3180	Fencing	NCWTP	\$120,300	2008
3181	PLC	NCWTP	\$46,600	2002
3183	Switchboard	NCWTP	\$96,900	2008
3185	Switchboard	NCWTP	\$129,200	1992
3186	Switchboard	NCWTP	\$47,400	2002
3188	Walkway	NCWTP	\$93,500	2008
3190	Landscaping	NCWTP	\$93,500	2008
3191	Power Supply and Cabling	NCWTP	\$5,361,800	1992
3192	Sealed Road	NCWTP	\$141,000	1992
3193	Site Lighting	NCWTP	\$88,000	1992
3194	Stormwater Drainage	NCWTP	\$467,000	1992
3196	Sealed Road	NCWTP	\$419,000	2008
3197	Alarm System	NCWTP	\$2,900	2002
3199	Switchboard	NCWTP	\$129,200	1992
3200	Phone System	NCWTP	\$30,000	2002
3209	Power Supply and Cabling	NCWTP	\$365,000	2008
3211	UPS	NCWTP	\$4,600	2008
3239	Switchboard	NCWTP	\$326,000	2008
3240	Water Filling Station - Struct	Filling	\$10,000	2007
3563	Rubbish Bin	RCD	\$950	2001
3568	Fencing	RCD	\$744	1996
3569	Fencing	RCD	\$3,986	1996
3570	Fencing	RCD	\$3,510	1996
3583	Bollard	RCD	\$1,900	2001
3584	Information Sign	RCD	\$3,400	2009
3585	Information Sign	RCD	\$3,400	2009
3586	Information Sign	RCD	\$4,200	2003
3587	Information Sign	RCD	\$4,200	2003
3588	Information Sign	RCD	\$4,200	2003
3589	Information Sign	RCD	\$4,200	2003
3590	Information Sign	RCD	\$4,200	2003
3591	Information Sign	RCD	\$4,200	2003

Asset ID	Description	Area	Value	Install year
3592	Information Sign	RCD	\$4,200	2003
3593	Information Sign	RCD	\$4,200	2003
3594	Information Sign	RCD	\$4,200	2003
3595	Information Sign	RCD	\$4,200	2001
3596	Information Sign	RCD	\$4,200	2003
3597	Information Sign	RCD	\$4,200	2006
3598	Information Sign	RCD	\$4,200	2003
3599	Bench	RCD	\$1,900	2003
3613	Closed Trail Gate	RCD	\$3,700	2001
3615	Closed Trail Gate	RCD	\$3,700	2001
3616	Closed Trail Gate	RCD	\$3,700	1997
3617	Closed Trail Gate	RCD	\$3,700	1997
3618	Closed Trail Gate	RCD	\$3,700	2001
3619	Closed Trail Gate	RCD	\$3,700	2001
3622	Hazard Sign	RCD	\$750	2008
3623	Hazard Sign	RCD	\$750	2008
3624	Hazard Sign	RCD	\$750	2008
3625	Hazard Sign	RCD	\$750	2008
3626	Hazard Sign	RCD	\$750	2008
3627	Hazard Sign	RCD	\$750	2008
3628	Information Sign	RCD	\$750	2006
3629	Information Sign	RCD	\$750	2003
3630	Information Sign	RCD	\$750	2003
3631	Information Sign	RCD	\$750	2003
3633	Information Sign	RCD	\$750	2003
3638	Information Sign	RCD	\$2,700	2006
3641	Information Sign	RCD	\$2,700	2001
3655	Playground equipment	RCD	\$49,000	2009
3656	Playground equipment	RCD	\$20,200	2009
3658	Playground equipment	RCD	\$3,000	2009
3659	Playground equipment	RCD	\$9,200	2009
3660	Playground equipment	RCD	\$5,300	2009
3663	Hazard Sign	RCD	\$650	2001
3665	Hazard Sign	RCD	\$650	2001
3666	Hazard Sign	RCD	\$650	1997
3667	Hazard Sign	RCD	\$650	1997
3668	Hazard Sign	RCD	\$650	2001
3669	Hazard Sign	RCD	\$650	2001
3670	Hazard Sign	RCD	\$650	2003
3671	Hazard Sign	RCD	\$650	2003
3672	Hazard Sign	RCD	\$650	1998
3674	Hazard Sign	RCD	\$650	2001

Asset ID	Description	Area	Value	Install year
3676	Hazard Sign	RCD	\$650	2003
3677	Hazard Sign	RCD	\$650	2003
3678	Hazard Sign	RCD	\$650	2003
3679	Hazard Sign	RCD	\$650	2003
3680	Hazard Sign	RCD	\$650	2003
3684	Hazard Sign	RCD	\$650	2003
3686	Unsealed Road	RCD	\$307,092	2006
3687	Sealed Road	RCD	\$126,412	1997
3690	Unsealed Road	RCD	\$2,486	1994
3693	Causeway	RCD	\$7,800	1994
3698	Storage Tank	RCD	\$2,700	2001
3699	Storage Tank	RCD	\$14,500	2010
3703	Pipework/Fitting	RCD	\$16,000	2001
3712	Walking Track	RCD	\$18,395	1999
3713	Walking Track	RCD	\$6,522	1994
3716	Board Walk	RCD	\$156,507	2002
3717	Formed Steps	RCD	\$14,625	1999
3718	Board Walk	RCD	\$187,174	2000
3719	Walking Track	RCD	\$11,804	1994
3720	Walking Track	RCD	\$3,218	1994
3721	Walking Track	RCD	\$6,954	1994
3731	Building	RCD	\$7,321	2006
3739	Dam	RCD	\$53,876,000	1953
3741	Compressor	RCD	\$270,000	2005
3769	Water Filling Station - Struct	Filling	\$11,000	2007
3795	Bulk Meter	Reservoirs	\$8,200	2010
3796	Water Filling Station - Struct	Filling	\$10,000	2007
3797	Reservoir	Reservoirs	\$2,784,600	1969
3799	Roof	Reservoirs	\$535,500	2002
3801	Bulk Meter	Reservoirs	\$11,900	2007
3802	Bulk Meter	Reservoirs	\$19,100	2008
3812	Trunk Main	Trunk	\$3,896,329	1972
4147	Trunk Main	Trunk	\$5,537,011	1967
4161	Trunk Main	Trunk	\$121,260	1967
4186	Trunk Main	Trunk	\$453,707	1995
4203	Pit	Trunk	\$32,000	2011
4277	Pit	Trunk	\$32,000	2011
4278	Pit	Trunk	\$32,000	2011
4311	Pit	Trunk	\$32,000	2011
4313	Trunk Main	Trunk	\$250,448	1996
4355	Pressure Reducing Valve	Trunk	\$35,300	2007
4361	Trunk Main	Trunk	\$3,828,357	2000

Asset ID	Description	Area	Value	Install year
4363	Trunk Main	Trunk	\$33,037	2003
4414	Pit	Trunk	\$32,000	2011
4415	Trunk Main	Trunk	\$606,439	1965
4453	Trunk Main	Trunk	\$3,116,653	1982
4480	Trunk Main	Trunk	\$394,872	2002
4487	Trunk Main	Trunk	\$478,102	2000
4533	Trunk Main	Trunk	\$480,583	1968
4535	Trunk Main	Trunk	\$220,293	1982
4536	Trunk Main	Trunk	\$167,375	1982
4539	Trunk Main	Trunk	\$188,646	2010
4542	Trunk Main	Trunk	\$1,137,687	1982
4549	Trunk Main	Trunk	\$2,604,461	1982
4587	Trunk Main	Trunk	\$1,563,626	1982
4613	Trunk Main	Trunk	\$490,559	1982
4646	Trunk Main	Trunk	\$10,283,716	1982
4654	Pressure Reducing Valve	Trunk	\$3,200	2006
4657	Trunk Main	Trunk	\$1,774,270	1982
4667	Trunk Main	Trunk	\$1,374,906	1982
4669	Trunk Main	Trunk	\$240,795	1982
4679	Trunk Main	Trunk	\$1,363,199	1982
4714	Trunk Main	Trunk	\$225,742	2004
4715	Trunk Main	Trunk	\$407,046	2005
4724	Trunk Main	Trunk	\$1,211,166	2007
4728	Trunk Main	Trunk	\$226,741	1974
4737	Trunk Main	Trunk	\$41,745	2006
4742	Trunk Main	Trunk	\$15,851	1998
4743	Trunk Main	Trunk	\$115,413	2006
4773	Trunk Main	Trunk	\$8,842,940	1987
4776	Trunk Main	Trunk	\$37,060	1998
4784	Trunk Main	Trunk	\$8,076	2000
4793	Trunk Main	Trunk	\$216,114	2000
4794	Trunk Main	Trunk	\$160,901	1997
4795	Trunk Main	Trunk	\$27,767	2000
4797	Trunk Main	Trunk	\$380,142	1975
4799	Trunk Main	Trunk	\$12,769	1974
4800	Trunk Main	Trunk	\$97,240	1974
4850	Trunk Main	Trunk	\$901,885	1974
4899	Trunk Main	Trunk	\$5,324,199	1985
4901	Trunk Main	Trunk	\$770,127	1974
4907	Trunk Main	Trunk	\$70,634	1974
4912	Trunk Main	Trunk	\$41,587	1974
4913	Trunk Main	Trunk	\$108,839	1974

Asset ID	Description	Area	Value	Install year
4929	Trunk Main	Trunk	\$178,961	1976
4931	Trunk Main	Trunk	\$67,691	1976
4939	Trunk Main	Trunk	\$73,787	1976
4941	Trunk Main	Trunk	\$159,790	1976
4951	Trunk Main	Trunk	\$424,923	1997
4955	Trunk Main	Trunk	\$297,630	1969
4983	Pit	Trunk	\$32,000	2011
5018	Pit	Trunk	\$32,000	2011
5019	Trunk Main	Trunk	\$2,150,187	1981
5029	Rising Main	Trunk	\$1,041,046	1985
5151	Pit	Trunk	\$32,000	2011
5164	Trunk Main	Trunk	\$376,400	2009
5165	Trunk Main	Trunk	\$230,812	2010
5173	Trunk Main	Trunk	\$843,063	1977
5183	Trunk Main	Trunk	\$2,977,700	1977
5184	Trunk Main	Trunk	\$1,407,764	1977
5196	Trunk Main	Trunk	\$1,516,437	2005
5208	Trunk Main	Trunk	\$2,400,547	1977
5213	Pit	Trunk	\$32,000	2011
5316	Pit	Trunk	\$32,000	2011
5350	Trunk Main	Trunk	\$7,899	1968
5351	Trunk Main	Trunk	\$7,994	1968
5354	Trunk Main	Trunk	\$14,746	1968
5362	Trunk Main	Trunk	\$9,158	1993
5363	Trunk Main	Trunk	\$75,231	1983
5365	Trunk Main	Trunk	\$4,571	1993
5381	Trunk Main	Trunk	\$2,388,152	1983
5421	Trunk Main	Trunk	\$5,897,212	1983
5472	Trunk Main	Trunk	\$21,293,405	1983
5489	Trunk Main	Trunk	\$1,439,486	2009
5490	Trunk Main	Trunk	\$6,461	1993
5497	Trunk Main	Trunk	\$65,212	1993
5499	Trunk Main	Trunk	\$27,873	1993
5504	Trunk Main	Trunk	\$36,420	1993
5515	Pit	Trunk	\$32,000	2011
5517	Pit	Trunk	\$32,000	2011
5529	Pit	Trunk	\$32,000	2011
5564	Pit	Trunk	\$32,000	2011
5582	Trunk Main	Trunk	\$25,319,197	1972
5602	Trunk Main	Trunk	\$434,628	1972
5626	Trunk Main	Trunk	\$3,089,512	1972
5627	Trunk Main	Trunk	\$1,324,680	1986

Asset ID	Description	Area	Value	Install year
5634	Trunk Main	Trunk	\$3,346,082	2006
5656	Trunk Main	Trunk	\$6,023,515	1998
5714	Trunk Main	Trunk	\$103,779	2001
5716	Trunk Main	Trunk	\$2,278	2001
5759	Trunk Main	Trunk	\$4,594,410	1984
5783	Trunk Main	Trunk	\$1,193,400	1968
5910	Rising Main	Trunk	\$4,740,399	2008
5920	Trunk Main	Trunk	\$23,109	2008
5921	Trunk Main	Trunk	\$30,884	2008
5923	Trunk Main	Trunk	\$77,004	2008
5926	Trunk Main	Trunk	\$27,258	2008
5928	Trunk Main	Trunk	\$115,146	2008
5932	Trunk Main	Trunk	\$30,675	2008
5934	Trunk Main	Trunk	\$96,874	2008
5938	Trunk Main	Trunk	\$232,735	2009
5945	Pressure Reducing Valve	Trunk	\$8,600	2009
5953	Rising Main	Trunk	\$1,856,896	2008
5956	Rising Main	Trunk	\$1,946,774	2008
5961	Rising Main	Trunk	\$4,051,604	2008
5962	Rising Main	Trunk	\$21,865,495	2008
5972	Reservoir	Reservoirs	\$652,000	1976
5977	Water Filling Station - Struct	Filling	\$10,000	2007
5992	PLC	WRS	\$97,000	2008
5995	Submersible Pump	WRS	\$142,000	2008
5996	Submersible Pump	WRS	\$142,000	2008
5997	Submersible Pump	WRS	\$142,000	2008
5998	Power Supply and Cabling	WRS	\$485,000	2008
5999	Submersible Pump	WRS	\$2,500	2008
6000	Pipework/Fitting	WRS	\$686,000	2008
6001	Pipework/Fitting	WRS	\$1,200	2008
6002	Riprap	WRS	\$330,000	2008
6003	Unsealed Road	WRS	\$301,000	2008
6004	Switchboard	WRS	\$258,000	2008
6005	Screen	WRS	\$59,000	2008
6006	Screen	WRS	\$59,000	2008
6007	Screen	WRS	\$59,000	2008
6008	Screen	WRS	\$43,000	2008
6009	Structure	WRS	\$760,000	2008
6010	Screen	WRS	\$71,000	2008
6011	Structure	WRS	\$86,000	2008
6012	Turbidity Analyser	WRS	\$10,000	2008
6013	Valve	WRS	\$9,200	2008

Asset ID	Description	Area	Value	Install year
6014	Valve	WRS	\$9,200	2008
6015	Valve	WRS	\$9,200	2008
6016	Valve	WRS	\$9,200	2008
6017	Valve	WRS	\$9,200	2008
6018	Valve	WRS	\$9,200	2008
6019	Vacuum pump	WRS	\$16,000	2008
6020	Switchboard	WRS	\$75,400	2008
6021	Site Lighting	WRS	\$2,200	2008
6025	Bulk Meter	Filling	\$11,900	2010
6073	Bulk Meter	Reservoirs	\$8,200	2006
6075	Centrifugal Pump	Rechlorination	\$5,700	2004
6078	Building	Rechlorination	\$9,735	2004
6079	Switchboard	Rechlorination	\$35,500	2004
6080	Valve	NCWTP	\$1,600	2008
6081	Valve	NCWTP	\$1,600	2008
6082	Valve	NCWTP	\$1,600	2008
6083	Valve	NCWTP	\$1,600	2008
6084	Valve	NCWTP	\$3,200	2008
6085	Cartridge Filter	NCWTP	\$9,700	2008
6086	Cartridge Filter	NCWTP	\$9,700	2008
6087	Cartridge Filter	NCWTP	\$4,300	2008
6088	Cartridge Filter	NCWTP	\$4,300	2008
6089	Cartridge Filter	NCWTP	\$4,300	2008
6090	Cartridge Filter	NCWTP	\$4,300	2008
6091	Cartridge Filter	NCWTP	\$4,300	2008
6092	Cartridge Filter	NCWTP	\$4,300	2008
6093	Cartridge Filter	NCWTP	\$4,300	2008
6094	Cartridge Filter	NCWTP	\$4,300	2008
6095	Cartridge Filter	NCWTP	\$4,300	2008
6096	Cartridge Filter	NCWTP	\$4,300	2008
6097	Cartridge Filter	NCWTP	\$4,300	2008
6098	Cartridge Filter	NCWTP	\$4,300	2008
6099	Cartridge Filter	NCWTP	\$4,300	2008
6100	Cartridge Filter	NCWTP	\$4,300	2008
6132	Batching Unit	NCWTP	\$17,600	1992
6133	Batching Unit	NCWTP	\$17,600	1992
6212	Bulk Meter	Reservoirs	\$14,500	2011
6213	Bulk Meter	Filling	\$9,900	2011
6214	Submersible Pump	NCWTP	\$58,200	2011
6215	Submersible Pump	NCWTP	\$58,200	2011
6216	Submersible Pump	NCWTP	\$58,200	2011
6218	Valve	NCWTP	\$3,100	2011

Asset ID	Description	Area	Value	Install year
6219	Valve	NCWTP	\$3,100	2011
6228	Trunk Main	Trunk	\$3,383,000	2011
6229	Trunk Main	Trunk	\$328,104	2011
6230	Trunk Main	Trunk	\$205,781	2011
6231	Trunk Main	Trunk	\$134,846	2011
6241	Trunk Main	Trunk	\$250,857	2011
6244	Trunk Main	Trunk	\$198,602	2011
6247	Trunk Main	Trunk	\$28,756	2011
6252	Auto-Valve	Fluoride	\$5,100	2004
6259	Auto-Valve	Reservoirs	\$8,600	2001
6260	Auto-Valve	Reservoirs	\$8,600	2003
6261	Auto-Valve	Reservoirs	\$8,600	2010
6263	Auto-Valve	Reservoirs	\$5,100	1996
6264	Auto-Valve	Reservoirs	\$8,600	2004
6265	Auto-Valve	Reservoirs	\$8,600	2004
6266	Auto-Valve	Rechlorination	\$5,100	2004
6267	Auto-Valve	Reservoirs	\$8,600	1997
6269	Auto-Valve	Reservoirs	\$8,600	1999
6270	Auto-Valve	Reservoirs	\$8,600	1999
6271	Level Sensor	Reservoirs	\$3,800	2004
6272	Level Sensor	Reservoirs	\$4,300	2004
6273	Level Sensor	Reservoirs	\$4,300	2006
6281	Motorised Control Valve	Reservoirs	\$16,200	2010
6285	Bulk Meter	Reservoirs	\$7,600	2012
6299	Septic Tank	ECWTP	\$32,000	2006
6300	Septic Tank	NCWTP	\$32,000	2009
6316	Process Flow Meter	NCWTP	\$6,000	2010
6317	Auto-Valve	Reservoirs	\$21,200	2011
6326	Building	Pump Station	\$69,601	1986
6328	Trunk Main	Trunk	\$7,664	1983
6329	Trunk Main	Trunk	\$44,802	1983
6331	Trunk Main	Trunk	\$7,074	1983
6340	Centrifuge	NCWTP	\$429,800	2011
6342	Stormwater Drainage	NCWTP	\$17,600	2011
6344	Dose Pump	NCWTP	\$5,200	2011
6345	Dose Pump	NCWTP	\$5,200	2011
6346	Progressive Cavity	NCWTP	\$8,200	2011
6347	Conveyor	NCWTP	\$23,400	2006
6348	Conveyor	NCWTP	\$17,600	2006
6350	Batching Unit	NCWTP	\$32,300	2011
6361	Actuator	NCWTP	\$8,500	2011
6362	Submersible Pump	NCWTP	\$7,500	2011

Asset ID	Description	Area	Value	Install year
6363	Process Flow Meter	NCWTP	\$11,200	2011
6364	Process Flow Meter	NCWTP	\$3,000	2011
6366	Pressure Reducing Valve	Trunk	\$2,200	2010
6367	Pressure Reducing Valve	Trunk	\$2,200	2010
6368	Pressure Reducing Valve	Trunk	\$2,200	2010
6372	Float Switch	NCWTP	\$2,200	1992
6373	Level Sensor	NCWTP	\$3,800	1999
6374	Rain Gauge	NCWTP	\$6,500	1992
6375	Float Switch	NCWTP	\$1,500	1992
6387	Trunk Main	Trunk	\$233,131	2011
6388	Trunk Main	Trunk	\$661,250	2012
6389	Float Switch	ECWTP	\$3,200	2005
6390	Level Sensor	ECWTP	\$3,800	2005
6391	Rain Gauge	ECWTP	\$6,500	2005
6408	Power Supply and Cabling	Pump Station	\$15,000	2012
6418	Building	Reservoirs	\$5,425	1995
6419	Pit	Reservoirs	\$64,000	1995
6422	Hoist	Pump Station	\$38,000	1986
6433	Pit	Reservoirs	\$32,000	1996
6440	Fencing	ECD	\$51,000	2002
6441	Power Supply and Cabling	ECD	\$24,000	2002
6442	Sealed Road	ECD	\$12,000	2002
6443	Dam Construction Component	ECD	\$1,380,000	2002
6446	Compressor	RCD	\$56,000	2006
6447	Compressor	RCD	\$56,000	2006
6448	Air Receiver	RCD	\$7,500	2006
6449	Dam	RCD	\$198,000	2010
6450	Dam	RCD	\$337,000	2010
6451	Dam	RCD	\$3,900,000	1953
6452	Dam	RCD	\$2,240,000	1953
6454	Pipework/Fitting	RCD	\$6,500,000	1953
6455	Power Supply and Cabling	RCD	\$36,000	2006
6456	Sealed Road	RCD	\$143,000	2010
6457	Unsealed Road	RCD	\$9,900	2010
6458	Valve	RCD	\$3,800	2006
6459	Aerator	RCD	\$215,000	1980
6460	Piezometer	RCD	\$70,000	2005
6461	Dam	RCD	\$35,000	2010
6462	Strainer	RCD	\$7,000	2006
6463	Pit	Rechlorination	\$36,600	2004
6471	Compressor	ECD	\$3,800	2002
6472	Dam Construction Component	ECD	\$95,000	2002

Asset ID	Description	Area	Value	Install year
6473	Building	ECWTP	\$20,169	2006
6474	Floor Covering	ECWTP	\$28,374	2006
6475	Roof	ECWTP	\$170,247	2006
6476	Walkway	ECWTP	\$125,000	2006
6477	Batching Unit	ECWTP	\$42,000	2006
6478	Filter Media	NCWTP	\$53,800	2012
6479	Filter Media	NCWTP	\$53,800	2012
6480	Filter Media	NCWTP	\$53,800	2012
6481	Filter Media	NCWTP	\$53,800	2012
6482	Filter Media	NCWTP	\$53,800	2012
6483	Filter Media	NCWTP	\$53,800	2012
6484	Filter Media	NCWTP	\$317,300	2008
6485	Floor Covering	NCWTP	\$14,353	1992
6488	Roof	NCWTP	\$101,943	1992
6489	Roof	NCWTP	\$47,352	2006
6490	Roof	NCWTP	\$18,096	1992
6491	Information Sign	RCD	\$9,300	2011
6493	Playground equipment	RCD	\$22,500	2012
6500	Trunk Main	Trunk	\$1,801,300	1977
6501	Trunk Main	Trunk	\$183,198	2012
6503	Fencing	WRS	\$38,200	2011
6506	Fencing	WRS	\$9,200	2012
6507	Fencing	WRS	\$4,800	2012
6510	Roof	NCWTP	\$109,096	2008
6511	Walkway & Ladder	NCWTP	\$257,500	1992
6512	Filter	NCWTP	\$934,000	1992
6513	Switchboard	NCWTP	\$117,000	1992
6514	Pit	NCWTP	\$35,100	1992
6515	PF Correction	NCWTP	\$32,300	2006
6516	Switchboard	NCWTP	\$53,800	2006
6517	Switchboard	NCWTP	\$7,000	2003
6518	Switchboard	NCWTP	\$7,000	2003
6519	Switchboard	NCWTP	\$17,600	2006
6537	Motorised Control Valve	Reservoirs	\$12,900	2012
6538	Bulk Meter	Bulkflow	\$6,400	2012
6539	Bulk Meter	Bulkflow	\$11,900	2012
6540	Structure	Bulkflow	\$12,900	2012
6541	Trunk Main	Trunk	\$82,600	2012
6568	Bench	RCD	\$37,000	2012
6572	Trunk Main	Trunk	\$466,317	1972
6577	Bench	ECD	\$14,800	2006
6579	Trunk Main	Trunk	\$65,142	2012

Asset ID	Description	Area	Value	Install year
6581	Trunk Main	Trunk	\$7,462	2012
6582	Trunk Main	Trunk	\$11,304	2012
6583	Trunk Main	Trunk	\$11,235	2012
6592	Auto-Valve	Reservoirs	\$8,600	2013
6593	Auto-Valve	Reservoirs	\$18,000	2013
6595	Trunk Main	Trunk	\$172,856	2006
6599	Septic Tank	RCD	\$46,500	2013
6607	DP Pressure Transmitter	NCWTP	\$5,800	1992
6608	DP Pressure Transmitter	NCWTP	\$5,800	1992
6609	DP Pressure Transmitter	NCWTP	\$5,800	1992
6610	DP Pressure Transmitter	NCWTP	\$5,800	1992
6611	DP Pressure Transmitter	NCWTP	\$5,800	1992
6612	DP Pressure Transmitter	NCWTP	\$5,800	1992
6613	Bulk Meter	Reservoirs	\$14,500	2013
6614	Bulk Meter	Reservoirs	\$8,200	2013
6615	Bulk Meter	Reservoirs	\$7,600	2013
6616	Bulk Meter	Reservoirs	\$8,200	2013
6617	Bulk Meter	NCWTP	\$20,300	2013
6618	Aerator	RCD	\$33,500	2012
6619	Valve	ECD	\$11,500	2013
6620	Air Extractor	NCWTP	\$32,600	2013
6621	Dry Feeder	NCWTP	\$14,000	2013
6622	Dry Feeder	NCWTP	\$14,000	2013
6623	Progressive Cavity	NCWTP	\$10,400	2013
6624	Progressive Cavity	NCWTP	\$10,400	2013
6625	SCADA	NCWTP	\$9,200	2013
6626	Oxygen Analyser	NCWTP	\$8,100	2013
6627	Oxygen Analyser	NCWTP	\$8,100	2013
6639	Unsealed Road	ECD	\$10,500	2013
6642	Services - Fire	NCWTP	\$84,000	2013
6643	PF Correction	NCWTP	\$33,600	2013
6644	PF Correction	RCD	\$11,000	2013
6645	UPS	NCWTP	\$37,700	2013
6646	Information Sign	WRS	\$8,000	2013
6647	Information Sign	WRS	\$1,000	2013
6650	Mixer	NCWTP	\$5,400	2006
6651	Safety Shower	NCWTP	\$2,700	2006
6652	Safety Shower	NCWTP	\$2,700	2006
6698	Trunk Main	Trunk	\$81,527	2013
6714	Pipework/Fitting	ECWTP	\$75,000	2006
6717	Filter Media	ECWTP	\$43,000	2006
6718	Filter Media	ECWTP	\$43,000	2006

Asset ID	Description	Area	Value	Install year
6719	Auto-Valve	Reservoirs	\$16,000	2014
6739	Residual Current Device	WRS	\$5,000	2006
6740	Residual Current Device	WRS	\$5,000	2006
6741	Residual Current Device	WRS	\$5,000	2006
6742	Residual Current Device	WRS	\$10,000	2006
6743	Residual Current Device	WRS	\$10,000	2006
6744	Residual Current Device	WRS	\$10,000	2006
6745	Residual Current Device	RCD	\$3,000	1992
6746	Residual Current Device	RCD	\$3,000	1992
6755	Residual Current Device	ECWTP	\$5,000	2006
6762	Retaining Wall	Trunk	\$94,800	2013
6763	Trunk Main	Trunk	\$166,600	2014
6777	Hoist	NCWTP	\$150,800	2014
6778	Valve	NCWTP	\$4,800	2014
6779	Valve	NCWTP	\$4,800	2014
6780	Valve	NCWTP	\$4,800	2014
6781	Valve	NCWTP	\$4,800	2014
6782	Valve	NCWTP	\$4,800	2014
6783	Valve	NCWTP	\$4,800	2014
6784	Compressor	NCWTP	\$13,100	2014
6785	Anti-slip surface	RCD	\$57,000	2014
6786	Concrete Walking Track	RCD	\$71,900	2014
6788	Compressor	WRS	\$9,200	2014
6789	VSD	WRS	\$46,000	2014
6791	Bulk Meter	Reservoirs	\$11,900	2014
6792	Bulk Meter	Reservoirs	\$11,900	2014
6793	Auto-Valve	Reservoirs	\$15,800	2014
6794	Telemetry	Reservoirs	\$64,000	2014
6795	Fencing	ECD	\$8,500	2014
6805	Water Filling Station - Pipes	Reservoirs	\$8,900	2007
6809	Water Filling Station - Pipes	Fluoride	\$8,900	2007
6811	Water Filling Station - Pipes	Filling	\$12,000	2007
6812	Water Filling Station - Elec	Filling	\$4,000	2007
6813	Water Filling Station - Pipes	Filling	\$12,000	2007
6815	Water Filling Station - Pipes	Filling	\$12,000	2007
6817	Water Filling Station - Pipes	Filling	\$8,800	2007
6826	Water Filling Station - Elec	Reservoirs	\$6,000	2014
6828	Water Filling Station - Elec	Fluoride	\$6,000	2014
6830	Water Filling Station - Elec	Filling	\$6,000	2014
6831	Water Filling Station - Elec	Filling	\$4,000	2014
6832	Water Filling Station - Elec	Filling	\$4,000	2014
6834	Water Filling Station - Elec	Filling	\$4,000	2014

Asset ID	Description	Area	Value	Install year
6836	Bulk Meter	Rechlorination	\$7,600	2014
6837	Bulk Meter	Reservoirs	\$7,600	2014
6838	Bulk Meter	Reservoirs	\$7,600	2014
6847	Trunk Main	Trunk	\$352,764	2014
6849	Trunk Main	Trunk	\$3,937,880	1982
6850	Trunk Main	Trunk	\$259,629	2014
6852	Trunk Main	Trunk	\$1,510,806	1972
6866	Trunk Main	Trunk	\$529,906	1977
6868	Trunk Main	Trunk	\$192,644	2014
6869	Trunk Main	Trunk	\$80,398	2014
6870	Trunk Main	Trunk	\$23,426	2014
6872	Rising Main	Trunk	\$1,167,480	2006
6877	Radio System	Carrington	\$7,500	2000
6879	Level Sensor	Reservoirs	\$4,300	2001
6880	Level Sensor	Reservoirs	\$4,300	2002
6881	Level Sensor	Reservoirs	\$4,300	2001
6882	Level Sensor	Reservoirs	\$4,300	2002
6883	Level Sensor	Rechlorination	\$3,800	1999
6884	Level Sensor	Reservoirs	\$3,800	2015
6886	Level Sensor	NCWTP	\$4,300	2013
6887	Level Sensor	Reservoirs	\$4,300	2014
6888	Level Sensor	Reservoirs	\$4,300	2014
6889	Level Sensor	Reservoirs	\$4,300	2002
6890	Level Sensor	Reservoirs	\$4,300	2009
6891	Level Sensor	Reservoirs	\$4,300	2007
6892	Level Sensor	Bulkflow	\$4,300	2005
6893	Level Sensor	Reservoirs	\$4,300	2006
6894	Level Sensor	Reservoirs	\$4,300	2003
6895	Level Sensor	Reservoirs	\$4,300	2006
6896	Level Sensor	Filling	\$4,300	2006
6898	Level Sensor	Reservoirs	\$4,300	2010
6899	Level Sensor	Reservoirs	\$4,300	2007
6900	Level Sensor	Reservoirs	\$4,300	2006
6901	Level Sensor	Reservoirs	\$4,300	2009
6902	Level Sensor	Bulkflow	\$4,300	2005
6903	Level Sensor	Reservoirs	\$4,300	2004
6904	Level Sensor	Reservoirs	\$4,300	2006
6905	Level Sensor	Rechlorination	\$3,800	2009
6909	UPS	NCWTP	\$6,500	2007
6911	Safety Shower	Rechlorination	\$2,700	2012
6913	Auto-Valve	Reservoirs	\$5,100	2003
6914	Telemetry	Reservoirs	\$13,000	2015

Asset ID	Description	Area	Value	Install year
6916	Telemetry	Reservoirs	\$13,000	2015
6917	Telemetry	Reservoirs	\$13,000	2015
6918	Telemetry	Reservoirs	\$13,000	2015
6919	Telemetry	Reservoirs	\$13,000	2015
6920	Telemetry	Reservoirs	\$13,000	2015
6921	Telemetry	Fluoride	\$13,000	2015
6923	Telemetry	Reservoirs	\$13,000	2015
6924	Telemetry	Rechlorination	\$32,800	2015
6925	Telemetry	Reservoirs	\$13,000	2015
6926	Telemetry	Reservoirs	\$13,100	2015
6927	Telemetry	ECWTP	\$13,100	2015
6929	Telemetry	Reservoirs	\$13,000	2015
6930	Telemetry	Bulkflow	\$13,000	2015
6932	Telemetry	WRS	\$13,000	2015
6933	Telemetry	Reservoirs	\$13,000	2015
6934	Telemetry	Reservoirs	\$13,000	2015
6935	Telemetry	Pump Station	\$38,000	2015
6936	Telemetry	Reservoirs	\$19,000	2015
6939	Telemetry	NCWTP	\$13,100	2015
6940	Telemetry	Bulkflow	\$13,000	2015
6942	Telemetry	RCD	\$13,000	2015
6943	Telemetry	Filling	\$13,000	2015
6944	Telemetry	Reservoirs	\$13,000	2015
6945	Telemetry	Reservoirs	\$14,000	2015
6946	Telemetry	Carrington	\$3,200	2015
6947	Telemetry	Reservoirs	\$13,000	2015
6948	Telemetry	Reservoirs	\$19,000	2015
6949	Telemetry	Reservoirs	\$13,000	2015
6950	Telemetry	Reservoirs	\$13,000	2015
6951	Telemetry	Reservoirs	\$13,000	2015
6953	Telemetry	Filling	\$13,000	2015
6955	Telemetry	Reservoirs	\$13,000	2015
6956	Telemetry	Carrington	\$300,000	2015
6957	Telemetry	Telemetry	\$17,600	2015
6958	Sealed Road	Reservoirs	\$374,700	2015
6959	Reservoir	Reservoirs	\$2,555,000	2015
6960	Roof	Reservoirs	\$565,000	2015
6961	Walkway & Ladder	Reservoirs	\$135,000	2015
6962	Retaining Wall	Reservoirs	\$300,000	2015
6963	Power Supply and Cabling	Reservoirs	\$190,000	2015
6970	Bulk Meter	Reservoirs	\$18,000	2015
6971	Bulk Meter	Reservoirs	\$14,900	2015

Asset ID	Description	Area	Value	Install year
6973	Bulk Meter	Reservoirs	\$19,100	2015
6974	Fencing	Reservoirs	\$78,400	2015
6975	Auto-Valve	Reservoirs	\$18,000	2015
6976	Auto-Valve	Reservoirs	\$5,100	2015
6977	Pit	Reservoirs	\$206,000	2015
6978	Pit	Reservoirs	\$345,000	2015
6979	Walkway & Ladder	Reservoirs	\$78,700	2015
6980	Walkway & Ladder	Reservoirs	\$78,700	2015
6981	Trunk Main	Trunk	\$281,877	2015
6982	Trunk Main	Trunk	\$68,400	2015
6983	Trunk Main	Trunk	\$241,780	2015
6984	Trunk Main	Trunk	\$136,240	2015
6986	Radio System	Telemetry	\$32,800	2015
6987	Walkway & Ladder	NCWTP	\$14,000	2015
6988	Walkway & Ladder	NCWTP	\$14,000	2015
6989	Bulk Meter	Reservoirs	\$8,200	2015
6992	Bulk Meter	Filling	\$6,400	2015
6994	Chlorine Analyser	NCWTP	\$13,500	2015
6995	Turbidity Analyser	NCWTP	\$10,000	2015
6996	Turbidity Analyser	NCWTP	\$10,000	2015
6997	Process Flow Meter	NCWTP	\$26,200	2015
6998	Telemetry	Bulkflow	\$13,000	2015
7000	Submersible Pump	NCWTP	\$19,800	2015
7001	Submersible Pump	NCWTP	\$19,800	2015
7002	Submersible Pump	NCWTP	\$17,200	2015
7003	Submersible Pump	NCWTP	\$17,200	2015
7004	Pipework/Fitting	ECWTP	\$16,200	2015
7005	Aerator	RCD	\$14,600	2015
7006	VSD	WRS	\$46,000	2015
7007	Dam	RCD	\$12,500	2015
7008	Fencing	RCD	\$3,300	2015
7012	Information Sign	WRS	\$29,000	2015
7013	Trunk Main	Trunk	\$2,080,800	2015
7014	Trunk Main	Trunk	\$1,752,207	2015
7018	Trunk Main	Trunk	\$94,803	2000
7019	Trunk Main	Trunk	\$103,645	2015
7052	Water Filling Station - Struct	Reservoirs	\$11,000	2007
7062	Floor Covering	RCD	\$13,501	1993
7064	Finishes & Fittings	RCD	\$94,380	1993
7091	Level Sensor	RCD	\$3,800	2015
7092	Surface Survey System	RCD	\$39,000	2015
7095	Switchboard	ECWTP	\$9,400	2013

Asset ID	Description	Area	Value	Install year
7098	Information Sign	RCD	\$17,800	2013
7099	Finishes & Fittings	RCD	\$4,985	1993
7168	Scraper Rubbers	NCWTP	\$7,500	2016
7169	Scraper Rubbers	NCWTP	\$7,500	2016
7170	Scraper Rubbers	NCWTP	\$7,500	2016
7171	Scraper Rubbers	NCWTP	\$7,500	2016
7173	Centrifugal Pump	Pump Station	\$102,500	2016
7174	Centrifugal Pump	Pump Station	\$102,500	2016
7175	Motorised Control Valve	Reservoirs	\$15,000	2016
7176	Motorised Control Valve	Reservoirs	\$15,800	2016
7177	Bulk Meter	Reservoirs	\$14,900	2016
7178	Bulk Meter	Reservoirs	\$8,200	2016
7179	Cooling Fan	NCWTP	\$16,000	2017
7180	Building	Fluoride	\$37,069	2015
7181	Building	Reservoirs	\$32,432	2015
7182	Building	Fluoride	\$10,499	2015
7183	Building	Reservoirs	\$10,843	2015
7184	Power Supply and Cabling	Fluoride	\$86,000	2015
7185	Power Supply and Cabling	Reservoirs	\$70,000	2015
7186	Power Supply and Cabling	Fluoride	\$31,000	2015
7187	Power Supply and Cabling	Reservoirs	\$61,000	2015
7188	Power Supply and Cabling	Fluoride	\$156,600	2015
7189	Power Supply and Cabling	Reservoirs	\$118,000	2015
7190	Power Supply and Cabling	Fluoride	\$113,000	2015
7191	Power Supply and Cabling	Reservoirs	\$118,000	2016
7192	Fencing	Fluoride	\$12,300	2015
7193	Fencing	Fluoride	\$8,400	2015
7194	Fencing	Reservoirs	\$8,400	2015
7195	Fencing	Fluoride	\$7,700	2015
7196	Fencing	Reservoirs	\$7,700	2015
7197	Storage Tank	Fluoride	\$7,200	2015
7198	Storage Tank	Reservoirs	\$7,500	2015
7199	Storage Tank	Fluoride	\$14,000	2015
7200	Storage Tank	Fluoride	\$14,000	2015
7201	Storage Tank	Fluoride	\$16,000	2015
7202	Storage Tank	Fluoride	\$8,500	2015
7203	Storage Tank	Reservoirs	\$14,000	2015
7204	Storage Tank	Reservoirs	\$14,000	2015
7205	Storage Tank	Reservoirs	\$16,400	2015
7206	Storage Tank	Reservoirs	\$8,300	2015
7207	Storage Tank	Fluoride	\$16,000	2015
7208	Storage Tank	Reservoirs	\$17,000	2015

Asset ID	Description	Area	Value	Install year
7209	Filter	Fluoride	\$1,000	2015
7210	Filter	Reservoirs	\$1,000	2015
7211	Pipework/Fitting	Fluoride	\$36,000	2015
7212	Pipework/Fitting	Reservoirs	\$13,000	2015
7213	Pipework/Fitting	Fluoride	\$14,000	2015
7214	Pipework/Fitting	Fluoride	\$122,000	2015
7215	Pipework/Fitting	Reservoirs	\$14,300	2015
7216	Pipework/Fitting	Reservoirs	\$20,000	2015
7217	Pipework/Fitting	Reservoirs	\$14,000	2015
7218	Pipework/Fitting	Reservoirs	\$20,000	2015
7219	Pipework/Fitting	Reservoirs	\$13,000	2015
7220	Pipework/Fitting	Reservoirs	\$12,700	2015
7221	Dry Feeder	Fluoride	\$14,000	2015
7222	Dry Feeder	Reservoirs	\$14,000	2015
7223	Dose Pump	Fluoride	\$7,400	2015
7224	Dose Pump	Fluoride	\$7,400	2015
7225	Dose Pump	Reservoirs	\$7,200	2015
7226	Dose Pump	Reservoirs	\$7,200	2015
7227	Dose Pump	Fluoride	\$7,200	2015
7228	Dose Pump	Reservoirs	\$7,500	2015
7229	Valve	Fluoride	\$500	2015
7230	Valve	Fluoride	\$500	2015
7231	Valve	Reservoirs	\$500	2015
7232	Valve	Reservoirs	\$500	2015
7233	Compressor	Fluoride	\$7,400	2015
7234	Compressor	Reservoirs	\$7,200	2015
7235	Switchboard	Fluoride	\$73,000	2015
7236	Switchboard	Fluoride	\$28,000	2015
7237	Switchboard	Reservoirs	\$72,000	2015
7238	Switchboard	Reservoirs	\$27,000	2016
7239	Switchboard	Fluoride	\$43,000	2015
7240	Switchboard	Fluoride	\$21,500	2015
7241	Switchboard	Reservoirs	\$42,000	2015
7242	Switchboard	Reservoirs	\$22,000	2015
7243	Centrifugal Pump	Fluoride	\$7,400	2015
7244	Centrifugal Pump	Reservoirs	\$7,200	2015
7246	Centrifugal Pump	Fluoride	\$7,200	2015
7247	Centrifugal Pump	Reservoirs	\$7,500	2015
7248	Centrifugal Pump	Reservoirs	\$7,500	2015
7249	Power Supply and Cabling	Fluoride	\$38,000	2015
7250	Power Supply and Cabling	Reservoirs	\$27,000	2015
7251	Power Supply and Cabling	Fluoride	\$28,000	2015

Asset ID	Description	Area	Value	Install year
7252	Power Supply and Cabling	Reservoirs	\$29,000	2015
7253	Air Conditioner	Fluoride	\$7,400	2015
7254	Air Conditioner	Reservoirs	\$7,200	2015
7255	Air Conditioner	Fluoride	\$7,200	2015
7256	Air Conditioner	Reservoirs	\$7,500	2015
7257	Laboratory Equipment	Fluoride	\$14,000	2015
7258	Laboratory Equipment	Reservoirs	\$14,400	2015
7259	Laboratory Equipment	Fluoride	\$14,300	2015
7260	Laboratory Equipment	Reservoirs	\$15,000	2015
7261	SCADA	Fluoride	\$7,400	2015
7262	SCADA	Reservoirs	\$7,200	2015
7263	SCADA	Fluoride	\$7,200	2015
7264	SCADA	Reservoirs	\$7,500	2015
7265	Hoist	Fluoride	\$65,000	2015
7266	Hoist	Fluoride	\$47,000	2015
7267	Hoist	Fluoride	\$36,000	2015
7268	Hoist	Reservoirs	\$92,000	2015
7269	Hoist	Reservoirs	\$18,000	2015
7270	Hoist	Reservoirs	\$36,000	2015
7271	Laboratory Equipment	Fluoride	\$7,400	2015
7272	Laboratory Equipment	Reservoirs	\$7,200	2015
7273	Laboratory Equipment	Fluoride	\$7,200	2015
7274	Laboratory Equipment	Reservoirs	\$7,500	2015
7275	Pressure Reducing Valve	Fluoride	\$7,500	2015
7276	Process Flow Meter	Fluoride	\$7,600	2015
7277	Bulk Meter	Fluoride	\$20,300	2015
7278	Process Flow Meter	Reservoirs	\$7,600	2015
7279	Bulk Meter	Fluoride	\$7,600	2015
7280	Bulk Meter	Reservoirs	\$7,600	2015
7281	Pit	Fluoride	\$80,000	2015
7282	Safety Shower	Fluoride	\$2,700	2015
7283	Safety Shower	Reservoirs	\$2,700	2015
7284	Safety Shower	Fluoride	\$2,700	2015
7285	Safety Shower	Reservoirs	\$2,700	2015
7286	Sealed Road	Fluoride	\$64,000	2015
7287	Sealed Road	Reservoirs	\$20,000	2015
7288	Sealed Road	Fluoride	\$83,400	2015
7289	Unsealed Road	Reservoirs	\$126,000	2015
7290	Pipework/Fitting	Fluoride	\$22,000	2015
7291	Pipework/Fitting	Reservoirs	\$21,500	2015
7292	Pipework/Fitting	Fluoride	\$21,500	2015
7293	Pipework/Fitting	Reservoirs	\$22,000	2015

Asset ID	Description	Area	Value	Install year
7294	Trolley	Fluoride	\$14,000	2015
7295	Trolley	Reservoirs	\$14,400	2015
7296	Vacuum Loader	Fluoride	\$22,000	2015
7297	Vacuum Loader	Reservoirs	\$21,500	2015
7298	Hopper	Fluoride	\$36,000	2015
7299	Hopper	Reservoirs	\$36,000	2015
7300	Fluoride Analyser	Fluoride	\$15,000	2015
7301	Fluoride Analyser	Reservoirs	\$15,000	2015
7302	Fluoride Analyser	Fluoride	\$15,000	2015
7303	Fluoride Analyser	Reservoirs	\$15,000	2015
7304	Water Softner	Fluoride	\$7,200	2015
7305	Water Softner	Reservoirs	\$7,500	2015
7306	CCTV	Fluoride	\$14,000	2015
7307	CCTV	Reservoirs	\$14,400	2015
7308	CCTV	Fluoride	\$14,300	2015
7309	CCTV	Reservoirs	\$15,100	2015
7310	Vacuum Loader	Fluoride	\$7,400	2015
7311	Vacuum Loader	Reservoirs	\$7,200	2015
7312	Chart Recorder	Fluoride	\$9,000	2015
7313	Chart Recorder	Reservoirs	\$9,000	2015
7314	Flow Switch	Fluoride	\$1,300	2015
7315	Flow Switch	Reservoirs	\$1,300	2015
7316	Flow Switch	Reservoirs	\$1,300	2015
7317	Flow Switch	Fluoride	\$1,300	2015
7318	Flow Switch	Reservoirs	\$1,300	2015
7319	Pit	Fluoride	\$28,000	2015
7323	Valve	Reservoirs	\$300	2015
7324	Valve	Fluoride	\$300	2015
7326	Pit	Reservoirs	\$10,800	2016
7327	Trunk Main	Trunk	\$110,160	2016
7328	Trunk Main	Trunk	\$303,280	2016
7332	Trunk Main	Trunk	\$371,998	2016
7345	Centrifugal Pump	Reservoirs	\$7,200	2015
7346	Centrifugal Pump	Fluoride	\$7,200	2015
7351	Valve	Fluoride	\$3,000	2015
7354	Centrifugal Pump	WRS	\$390,000	2016
7355	Chlorine Analyser	Rechlorination	\$13,500	2016
7356	Storage Tank	Rechlorination	\$3,200	2016
7357	Dose Pump	Rechlorination	\$5,400	2016
7358	Flow Switch	Rechlorination	\$2,600	2016
7359	Membrane	ECWTP	\$121,000	2016
7360	Chlorine Analyser	Reservoirs	\$13,500	2016

Asset ID	Description	Area	Value	Install year
7361	Storage Tank	Reservoirs	\$8,600	2016
7362	Dose Pump	Reservoirs	\$5,600	2016
7363	Flow Switch	Reservoirs	\$1,300	2016
7364	Safety Shower	Reservoirs	\$2,700	2016
7365	Building	Reservoirs	\$2,713	2016
7366	Chlorine Analyser	Reservoirs	\$13,500	2016
7367	Storage Tank	Reservoirs	\$2,700	2016
7368	Dose Pump	Reservoirs	\$5,500	2016
7369	Flow Switch	Reservoirs	\$1,300	2016
7370	Safety Shower	Reservoirs	\$2,700	2016
7371	Building	Reservoirs	\$3,504	2016
7372	Dose Pump	NCWTP	\$16,200	2016
7373	Dose Pump	NCWTP	\$16,200	2016
7378	Switchboard	Pump Station	\$208,000	2016
7382	Batching Unit	NCWTP	\$48,300	2016
7383	Dose Pump	NCWTP	\$18,000	2016
7384	Dose Pump	NCWTP	\$18,000	2016
7385	Mixer	NCWTP	\$12,900	2006
7386	Sealed Road	RCD	\$38,070	2016
7387	Fencing	RCD	\$240	2016
7388	Fencing	RCD	\$10,350	2016
7391	RRCC-1 Pipe	RCD	\$8,000	2016
7392	Sealed Road	RCD	\$38,850	2016
7393	Bulk Meter	ECWTP	\$9,900	2016
7393	Storage Tank	NCWTP	\$9,900	2016
7394	Storage Tank	NCWTP	\$41,800	2016
7395	Storage Tank	NCWTP	\$34,000	2016
7396	Generator	NCWTP	\$148,500	2016
7397	Generator	NCWTP	\$272,400	2016
7398	Structural Tank	NCWTP	\$34,700	2016
7399	Stormwater Drainage	NCWTP	\$85,600	2016
7400	Walkway & Ladder	NCWTP	\$9,000	2016
7401	Fencing	NCWTP	\$7,300	2016
7402	Power Supply and Cabling	NCWTP	\$357,500	2016
7403	Switchboard	NCWTP	\$80,000	2016
7404	Structure	NCWTP	\$155,700	2016
7405	Switchboard	NCWTP	\$25,800	2016
7425	Dose Pump	NCWTP	\$18,000	2016
7426	Dose Pump	NCWTP	\$18,000	2016
7427	Pipework/Fitting	NCWTP	\$3,200	2016
7438	Structure	Reservoirs	\$53,000	2016
7439	Structure	Reservoirs	\$56,500	2016

Asset ID	Description	Area	Value	Install year
7440	Radio System	Reservoirs	\$11,000	2016
7441	Radio System	Reservoirs	\$10,600	2016
7442	Fencing	Reservoirs	\$4,400	2016
7443	Radio System	NCWTP	\$11,000	2016
7444	Radio System	Telemetry	\$10,600	2016
7445	Valve	Fluoride	\$500	2017
7448	Trunk Main	Trunk	\$388,368	2017
7449	Bulk Meter	Reservoirs	\$7,600	2017
7452	Building	NCWTP	\$74,603	2017
7453	Centrifuge	NCWTP	\$98,100	2017
7454	Membrane	ECWTP	\$121,000	2017
7455	SCADA	ECWTP	\$100,000	2017
7456	SCADA	NCWTP	\$150,600	2017
7457	Pit	NCWTP	\$1,200	2017
7458	Pit	NCWTP	\$1,200	2017
7459	Pit	NCWTP	\$1,200	2017
7460	Pit	NCWTP	\$1,200	2017
7461	VSD	NCWTP	\$4,400	2017
7462	Power Supply and Cabling	NCWTP	\$16,400	2017
7464	Playground equipment	RCD	\$3,000	2009
7465	VSD	WRS	\$60,000	2008
7466	VSD	WRS	\$60,000	2008
7467	Structure	NCWTP	\$86,200	2007
7468	Pipework/Fitting	NCWTP	\$70,000	2004
7469	Pipework/Fitting	NCWTP	\$12,900	2004
7470	Structure	WRS	\$160,000	2005
7471	Structure	NCWTP	\$483,600	2007
7472	Pipework/Fitting	NCWTP	\$12,900	2004
7473	Pipework/Fitting	NCWTP	\$25,800	2007
7474	Pipework/Fitting	NCWTP	\$17,200	2004
7475	Structure	NCWTP	\$25,800	2007
7476	Pipework/Fitting	NCWTP	\$129,200	2007
7477	Mixer	NCWTP	\$12,900	2004
7478	Pipework/Fitting	NCWTP	\$375,900	2005
7479	Building	RCD	\$1,900	1950
7480	Pipework/Fitting	ECWTP	\$160,000	2005
7481	Pipework/Fitting	ECWTP	\$130,000	2005
7482	Pipework/Fitting	Reservoirs	\$225,000	2015
7483	Roof	Reservoirs	\$101,300	2003
7484	Pipework/Fitting	Reservoirs	\$45,500	2003
7486	Pipework/Fitting	Rechlorination	\$4,100	2012
7487	Pipework/Fitting	Reservoirs	\$3,000	2012

Asset ID	Description	Area	Value	Install year
7489	Switchboard	Reservoirs	\$8,600	2010
7490	Fencing	Pump Station	\$12,800	1993
7491	Structure	Pump Station	\$150,000	1998
7492	Structure	Pump Station	\$32,000	1998
7493	Structure	Reservoirs	\$13,000	2014
7494	Hoist	Reservoirs	\$4,300	2012
7495	Pressure Reducing Valve	Reservoirs	\$5,100	2015
7499	Pipework/Fitting	Reservoirs	\$243,000	2004
7500	Pipework/Fitting	Reservoirs	\$45,000	2004
7505	Pipework/Fitting	Reservoirs	\$161,400	2004
7508	Pipework/Fitting	Reservoirs	\$249,900	2004
7510	Pipework/Fitting	Reservoirs	\$56,000	2004
7511	Pressure transmitter	NCWTP	\$1,350	2017
7512	Pressure transmitter	NCWTP	\$1,350	2017
7513	Pressure transmitter	NCWTP	\$1,350	2017
7514	Pressure transmitter	NCWTP	\$1,350	2017
7515	Pressure transmitter	NCWTP	\$1,350	2017
7516	Pressure transmitter	NCWTP	\$1,350	2017
7522	Air Dryer	ECWTP	\$11,400	2017
7527	Pressure Reducing Valve	Trunk	\$2,200	2017
7540	Air Dryer	ECWTP	\$3,600	2012
7541	Building	NCWTP	\$86,832	2017
7542	Unsealed Road	ECD	\$11,000	2017
7543	Water Filling Station - Struct	Filling	\$11,000	2017
7544	Water Filling Station - Pipes	Filling	\$12,000	2017
7545	Water Filling Station - Elec	Filling	\$6,000	2017
7546	Building	NCWTP	\$6,737	2017
7547	Centrifugal Pump	NCWTP	\$9,700	2017
7548	Centrifugal Pump	NCWTP	\$9,700	2017
7549	Centrifugal Pump	NCWTP	\$5,400	2017
7550	Switchboard	NCWTP	\$9,500	2017
7551	Pipework/Fitting	NCWTP	\$19,600	2017
7552	Process Flow Meter	NCWTP	\$6,400	2017
7555	Trunk Main	Trunk	\$176,343	2017
7558	Trunk Main	Trunk	\$115,542	2017
7559	Trunk Main	Trunk	\$230,736	1996
7561	Trunk Main	Trunk	\$119,865	2017
7562	Services - Hydraulics	NCWTP	\$100,474	1992
7563	Roof	Rechlorination	\$9,890	2004
7564	Services - Electrical	Reservoirs	\$932	2016
7569	Sub-Structure	ECWTP	\$165,518	2006
7571	Services - Electrical	RCD	\$2,623	2006

Asset ID	Description	Area	Value	Install year
7572	Roof	ECWTP	\$2,252	2006
7575	Sub-Structure	Rechlorination	\$5,872	2004
7576	Services - Hydraulics	Reservoirs	\$2,237	2015
7578	Services - Hydraulics	NCWTP	\$9,618	2006
7586	Roof	Reservoirs	\$5,196	1995
7587	Services - Electrical	Reservoirs	\$11,326	2015
7589	Sub-Structure	NCWTP	\$28,115	2006
7590	Roof	NCWTP	\$29,588	1992
7597	Sub-Structure	Fluoride	\$22,359	2015
7598	Services - Hydraulics	Fluoride	\$7,649	2015
7600	Services - Mechanical	ECWTP	\$683	2006
7603	Services - Mechanical	WRS	\$3,041	2008
7604	Services - Electrical	ECWTP	\$795	2006
7605	Services - Electrical	Reservoirs	\$3,787	2015
7607	Services - Hydraulics	Rechlorination	\$2,009	2004
7610	Services - Hydraulics	ECWTP	\$70,936	2006
7611	Roof	ECWTP	\$14,343	2006
7613	Sub-Structure	ECWTP	\$12,165	2006
7615	Services - Electrical	Pump Station	\$24,305	1986
7618	Services - Fire	NCWTP	\$4,784	1992
7620	Services - Hydraulics	ECWTP	\$4,162	2006
7621	Sub-Structure	NCWTP	\$6,011	2004
7623	Services - Electrical	ECWTP	\$7,043	2006
7624	Services - Electrical	ECWTP	\$10,587	2006
7625	Services - Electrical	Reservoirs	\$1,528	1995
7626	Roof	Fluoride	\$36,481	2015
7629	Services - Mechanical	Fluoride	\$344	2015
7630	Services - Electrical	ECWTP	\$137,618	2006
7631	Services - Electrical	Reservoirs	\$1,204	2016
7633	Services - Hydraulics	NCWTP	\$22,160	2008
7635	Services - Mechanical	ECWTP	\$9,458	2006
7638	Roof	Reservoirs	\$32,947	2015
7640	Roof	NCWTP	\$9,969	2004
7641	Services - Hydraulics	Reservoirs	\$6,692	2015
7642	Roof	Reservoirs	\$37,084	2015
7643	Services - Mechanical	Fluoride	\$1,177	2015
7645	Services - Electrical	Fluoride	\$12,945	2015
7647	Services - Electrical	NCWTP	\$3,519	2004
7648	Services - Fire	ECWTP	\$9,458	2006
7651	Services - Hydraulics	Fluoride	\$2,237	2015
7654	Sub-Structure	Reservoirs	\$1,611	2016
7656	Services - Hydraulics	Reservoirs	\$551	2016

Asset ID	Description	Area	Value	Install year
7657	Services - Electrical	NCWTP	\$170,033	1992
7658	Sub-Structure	NCWTP	\$83,728	1992
7659	Services - Hydraulics	Reservoirs	\$712	2016
7660	Finishes & Fittings	NCWTP	\$45,452	1992
7661	Roof	Pump Station	\$70,706	1986
7662	Services - Hydraulics	WRS	\$19,766	2008
7663	Sub-Structure	Reservoirs	\$19,562	2015
7664	Services - Electrical	NCWTP	\$16,277	2006
7665	Sub-Structure	Reservoirs	\$6,540	2015
7667	Services - Hydraulics	Reservoirs	\$7,533	2015
7671	Sub-Structure	ECWTP	\$1,358	2006
7673	Sub-Structure	NCWTP	\$10,752	1992
7674	Structure	Reservoirs	\$3,449	2016
7675	Services - Hydraulics	NCWTP	\$35,883	1992
7676	Services - Electrical	WRS	\$33,451	2008
7678	Services - Mechanical	NCWTP	\$4,784	1992
7679	Roof	NCWTP	\$2,200	2017
7681	Services - Hydraulics	ECWTP	\$5,806	2006
7684	Roof	RCD	\$7,431	2006
7686	Sub-Structure	NCWTP	\$1,300	2017
7687	Sub-Structure	RCD	\$4,480	2006
7688	Services - Electrical	NCWTP	\$64,590	1992
7689	Sub-Structure	WRS	\$57,778	2008
7690	Services - Electrical	NCWTP	\$5,245	1992
7691	Sub-Structure	NCWTP	\$17,581	1992
7693	Services - Electrical	Rechlorination	\$3,400	2004
7694	Sub-Structure	Reservoirs	\$3,133	1995
7695	Services - Mechanical	Reservoirs	\$344	2015
7697	Structure	Reservoirs	\$2,670	2016
7698	Services - Electrical	NCWTP	\$37,502	2008
7701	Services - Hydraulics	Pump Station	\$14,362	1986
7702	Roof	Fluoride	\$11,015	2015
7703	Services - Electrical	NCWTP	\$8,576	1992
7704	Finishes & Fittings	ECWTP	\$89,852	2006
7705	Sub-Structure	Pump Station	\$41,981	1986
7709	Sub-Structure	NCWTP	\$293,694	1992
7711	Sub-Structure	Reservoirs	\$2,080	2016
7712	Services - Electrical	Fluoride	\$3,787	2015
7713	Roof	Reservoirs	\$10,671	2015
7715	Roof	ECWTP	\$20,489	2006
7716	Sub-Structure	NCWTP	\$64,776	2008
7719	Sub-Structure	ECWTP	\$14,002	2006

Asset ID	Description	Area	Value	Install year
7721	Sub-Structure	Fluoride	\$6,540	2015
7724	VSD	NCWTP	\$28,400	2017
7727	Trunk Main	Trunk	\$60,817	2017
7728	Auto-Valve	Reservoirs	\$21,200	2017
7729	Level Sensor	Reservoirs	\$4,300	2017
7730	Float Switch	Reservoirs	\$1,500	2017
7731	Level Sensor	Reservoirs	\$4,300	2017
7732	Float Switch	Reservoirs	\$1,500	2017
7733	Air Dryer	ECWTP	\$3,600	2017
7734	PLC	NCWTP	\$20,000	2005
7735	PLC	NCWTP	\$40,000	2005
7736	PLC	NCWTP	\$40,000	2005
7737	PLC	NCWTP	\$40,000	2008
7738	PLC	NCWTP	\$40,000	2005
7739	PLC	NCWTP	\$40,000	2005
7740	PLC	NCWTP	\$40,000	2005
7741	PLC	NCWTP	\$40,000	2005
7742	PLC	NCWTP	\$40,000	2005
7743	Turbidity Analyser	NCWTP	\$10,000	2009
7744	Turbidity Analyser	NCWTP	\$10,000	2009
7745	Turbidity Analyser	NCWTP	\$10,000	2009
7746	Turbidity Analyser	NCWTP	\$10,000	2009
7747	Turbidity Analyser	NCWTP	\$10,000	2009
7748	Turbidity Analyser	NCWTP	\$10,000	2009
7749	Turbidity Analyser	NCWTP	\$10,000	2017
7750	Turbidity Analyser	NCWTP	\$10,000	2017
7751	Turbidity Analyser	NCWTP	\$10,000	2017
7752	Turbidity Analyser	NCWTP	\$10,000	2017
7754	Turbidity Analyser	NCWTP	\$10,000	2017
7760	Roof	NCWTP	\$104,264	1992
7766	Valve	ECWTP	\$500	2006
7767	Valve	ECWTP	\$500	2006
7768	Valve	ECWTP	\$500	2006
7769	Valve	ECWTP	\$500	2006
7770	Valve	ECWTP	\$500	2006
7771	Valve	ECWTP	\$500	2006
7772	Pressure transmitter	ECWTP	\$5,800	2006
7773	Pressure transmitter	ECWTP	\$5,800	2006
7774	Pressure transmitter	ECWTP	\$5,800	2006
7775	Pressure transmitter	ECWTP	\$5,800	2006
7776	Pressure transmitter	ECWTP	\$5,800	2006
7777	Pressure transmitter	ECWTP	\$5,800	2006

Asset ID	Description	Area	Value	Install year
7778	Pressure transmitter	ECWTP	\$5,800	2006
7779	Pressure transmitter	ECWTP	\$5,800	2006
7780	Pressure transmitter	ECWTP	\$5,800	2006
7781	Pressure transmitter	ECWTP	\$5,800	2006
7782	Pressure transmitter	ECWTP	\$5,800	2006
7783	Pressure transmitter	ECWTP	\$5,800	2006
7784	Tank Liner	ECWTP	\$40,000	2006
7785	Tank Liner	ECWTP	\$30,000	2006
7786	Tank Liner	ECWTP	\$30,000	2006
7789	Ozone Analyser	NCWTP	\$15,000	2017
7790	Ozone Analyser	NCWTP	\$15,000	2017
7791	Ozone Analyser	NCWTP	\$15,000	2017
7792	Ozone Analyser	ECWTP	\$15,000	2017
7793	Ozone Analyser	ECWTP	\$15,000	2017
7794	Trunk Main	Trunk	\$598,720	2018
7810	Walkway & Ladder	Reservoirs	\$10,600	2018
7812	Walkway & Ladder	Reservoirs	\$10,800	2018
7852	Structure	RCD	\$187,300	2018
7855	Structure	ECWTP	\$135,000	2017
7856	Structure	ECWTP	\$70,000	2017
7857	Radio System	ECWTP	\$26,000	2017
7858	Radio System	Reservoirs	\$31,600	2017
7859	Radio System	Reservoirs	\$32,900	2017
7860	Radio System	Bulkflow	\$31,300	2017
7861	Radio System	Bulkflow	\$35,800	2017
7862	Radio System	Reservoirs	\$44,700	2017
7863	Radio System	Reservoirs	\$40,100	2017
7865	Radio System	Reservoirs	\$44,700	2017
7866	Radio System	Telemetry	\$34,700	2017
7867	Radio System	Reservoirs	\$7,500	2017
7868	Radio System	NCWTP	\$7,500	2017
7869	Membrane	ECWTP	\$121,000	2018
7871	Door	Pump Station	\$4,929	2017
7872	Pressure Reducing Valve	Trunk	\$5,100	2018
7873	Trunk Main	Trunk	\$43,355	2018
7876	Sealed Road	NCWTP	\$54,500	2018
7877	Information Sign	RCD	\$580	2018
7878	Information Sign	RCD	\$580	2018
7879	Information Sign	RCD	\$580	2018
7880	Information Sign	RCD	\$580	2018
7881	Information Sign	RCD	\$3,500	2018
7882	Information Sign	RCD	\$3,500	2018

Asset ID	Description	Area	Value	Install year
7883	Hazard Sign	RCD	\$1,000	2018
7884	Information Sign	RCD	\$5,600	2018
7885	Hazard Sign	RCD	\$1,000	2018
7886	Hazard Sign	RCD	\$1,000	2018
7887	Hazard Sign	RCD	\$1,000	2018
7888	Hazard Sign	RCD	\$1,000	2018
7889	Hazard Sign	RCD	\$1,000	2018
7890	Hazard Sign	RCD	\$1,000	2018
7891	Hazard Sign	RCD	\$1,000	2018
7892	Hazard Sign	RCD	\$1,000	2018
7893	Hazard Sign	RCD	\$1,000	2018
7894	Hazard Sign	RCD	\$1,000	2018
7895	Hazard Sign	RCD	\$1,000	2018
7896	Information Sign	RCD	\$12,300	2018
7897	Information Sign	RCD	\$14,300	2018
7898	Information Sign	RCD	\$8,500	2018
7899	Information Sign	RCD	\$5,600	2018
7900	Fencing	RCD	\$3,000	2018
7901	Fencing	RCD	\$3,300	2018
7902	Fencing	RCD	\$9,000	2018
7903	Gate	RCD	\$2,900	2018
7904	Gate	RCD	\$2,900	2018
7905	Gate	RCD	\$4,100	2018
7906	Bollard	RCD	\$25,000	2018
7907	Sealed Road	RCD	\$282,150	2018
7908	Linemarking	RCD	\$10,200	2018
7909	Stormwater Drainage	RCD	\$62,800	2018
7910	Sealed Road	RCD	\$15,000	2018
7911	Sealed Road	RCD	\$9,792	2018
7912	Grass Cell Carpark	RCD	\$186,300	2018
7913	Unsealed Road	RCD	\$11,250	2018
7914	Unsealed Road	RCD	\$6,930	2018
7915	Stormwater Drainage	RCD	\$4,300	2018
7916	Stormwater Drainage	RCD	\$4,300	2018
7917	Stormwater Drainage	RCD	\$3,600	2018
7918	Stormwater Drainage	RCD	\$3,600	2018
7919	Stormwater Drainage	RCD	\$3,400	2018
7920	Stormwater Drainage	RCD	\$3,400	2018
7921	Stormwater Drainage	RCD	\$3,400	2018
7922	Stormwater Drainage	RCD	\$18,900	2018
7923	Stormwater Drainage	RCD	\$11,600	2018
7924	Stormwater Drainage	RCD	\$3,400	2018

Asset ID	Description	Area	Value	Install year
7925	Stormwater Drainage	RCD	\$4,400	2018
7926	Riprap	RCD	\$1,500	2018
7927	Landscaping	RCD	\$37,700	2018
7928	Concrete Walking Track	RCD	\$73,500	2018
7929	Landscaping	RCD	\$165,300	2018
7930	Landscaping	RCD	\$13,000	2018
7931	Landscaping	RCD	\$10,100	2018
7932	Landscaping	RCD	\$10,100	2018
7933	Landscaping	RCD	\$10,100	2018
7934	Landscaping	RCD	\$10,100	2018
7935	Landscaping	RCD	\$15,900	2018
7936	Landscaping	RCD	\$27,800	2018
7937	Building	RCD	\$16,977	2018
7938	Services - Electrical	RCD	\$90,500	2018
7939	Reticulation Main	RCD	\$5,755	2018
7942	Stormwater Drainage	NCWTP	\$25,000	2018
7943	Stormwater Drainage	NCWTP	\$15,200	2018
7951	Trunk Main	Trunk	\$4,550	2018
7961	Trunk Main	Trunk	\$5,895	2018
7962	Filter Media	NCWTP	\$26,000	2009
7963	Filter Media	NCWTP	\$26,000	2009
7964	Filter Media	NCWTP	\$26,000	2009
7975	Trunk Main	Trunk	\$156,529	2018
8005	Switchboard	NCWTP	\$63,800	2019
8006	Tank Liner	WRS	\$40,000	2002
8007	Chlorine Analyser	ECWTP	\$13,500	2019
8009	Trunk Main	Trunk	\$297,881	2019
8013	Trunk Main	Trunk	\$137,110	2019
8021	Pressure Reducing Valve	Trunk	\$18,000	2019
8022	Pit	Trunk	\$32,000	2019
8023	Pit	Trunk	\$32,000	2019
8037	Hoist	ECD	\$5,100	2019
8038	Hoist	ECD	\$23,400	2019
8039	Hoist	ECD	\$20,500	2019
8040	Trunk Main	Trunk	\$311,558	2019
8041	Pit	Trunk	\$32,000	2019
8049	Ramp-Grid	WRS	\$7,600	2019
8050	Ramp-Grid	WRS	\$7,600	2019
8052	Trunk Main	Trunk	\$3,361,380	2019
8053	Trunk Main	Trunk	\$183,931	2019
8054	Trunk Main	Trunk	\$183,936	2019
8056	Walkway & Ladder	ECD	\$27,400	2019

Asset ID	Description	Area	Value	Install year
8057	Walkway & Ladder	ECD	\$18,300	2019
8058	Walkway & Ladder	ECD	\$45,600	2019
8060	Bulk Meter	Reservoirs	\$14,500	2019
8061	Compressor	ECWTP	\$8,200	2019
8062	Mixer	NCWTP	\$13,700	2018
8923	Unsealed Road	Trunk	\$82,100	2020
8924	Unsealed Road	Reservoirs	\$13,000	2020
8925	Gate	Reservoirs	\$1,500	2020
8958	Pontoon Bridge	ECD	\$30,700	2019
8959	Unformed track	ECD	\$14,500	2019
8960	Playground equipment	RCD	\$27,200	2020
8961	Playground equipment	RCD	\$27,200	2020
8964	Gate	ECD	\$3,000	2001
8965	Roof	NCWTP	\$2,422	2020
8966	Building	NCWTP	\$8,226	2020
8967	Building	NCWTP	\$6,167	2020
8968	Building	Reservoirs	\$10,728	2020
8969	Building	Fluoride	\$10,728	2020
8971	Building	NCWTP	\$4,482	2020
8972	Process Flow Meter	ECWTP	\$11,900	2020
8973	Storage Tank	NCWTP	\$29,700	2020
8974	Water Filling Station - Struct	Reservoirs	\$63,800	2007
8975	Water Filling Station - Struct	Filling	\$63,800	2007
8976	Walkway & Ladder	Reservoirs	\$98,000	2020
8977	Auto-Valve	Reservoirs	\$40,000	2004
8978	Strain gauge	ECWTP	\$17,900	2020
8979	Mixer	NCWTP	\$13,700	2020
8980	Centrifugal Pump	NCWTP	\$19,200	2011
8981	Dose Pump	NCWTP	\$16,600	2020
8982	Dose Pump	NCWTP	\$16,600	2020
8983	Compressor	NCWTP	\$9,800	2020
8984	Bench	RCD	\$2,600	2020
8985	Ozone Analyser	NCWTP	\$7,400	2020
8986	Ozone Analyser	NCWTP	\$7,400	2020
8987	Ozone Analyser	NCWTP	\$7,400	2020
8988	Ozone Analyser	NCWTP	\$7,400	2020
8997	Solar	ECD	\$8,400	2020
8998	Solar	ECD	\$103,000	2020
8999	Solar	Reservoirs	\$143,300	2020
9000	Ozone Destructor	NCWTP	\$87,800	2020
9001	Switchboard	NCWTP	\$12,400	2020
9002	Blower	NCWTP	\$12,400	2020

Asset ID	Description	Area	Value	Install year
9003	Dose Pump	NCWTP	\$45,700	2020
9004	Valve	NCWTP	\$3,700	2020
9005	Valve	NCWTP	\$3,700	2020
9006	Pipework/Fitting	NCWTP	\$37,100	2020
9007	Static Mixer	NCWTP	\$6,200	2020
9008	Pipework/Fitting	NCWTP	\$18,500	2020
9009	Power Supply and Cabling	NCWTP	\$26,400	2020
9010	Ozone Destructor	ECD	\$91,000	2020
9011	Ozone Generator	ECD	\$61,000	2020
9012	Ozone Analyser	ECD	\$17,500	2020
9013	Oxygen Receiver	ECD	\$22,500	2020
9014	Structure	NCWTP	\$1,225,400	2020
9015	Structure	NCWTP	\$912,900	2020
9016	Structure	NCWTP	\$452,400	2020
9017	Structure	NCWTP	\$157,200	2020
9018	Structure	NCWTP	\$199,500	2020
9020	Structure	NCWTP	\$79,900	2020
9021	Services - Electrical	NCWTP	\$109,800	2020
9022	Fencing	NCWTP	\$9,600	2020
9023	Drilled Bore	NCWTP	\$101,200	2020
9024	Bulk Meter	ECWTP	\$9,900	2020
9026	Power Supply and Cabling	RCD	\$3,400	2020
9027	Power Supply and Cabling	RCD	\$3,400	2020
9028	Power Supply and Cabling	Reservoirs	\$3,400	2020
9029	Power Supply and Cabling	Reservoirs	\$3,400	2020
9032	Information Sign	RCD	\$26,700	2020
9033	Information Sign	WRS	\$21,200	2020
9035	Trunk Main	Trunk	\$685,440	1968
9036	Trunk Main	Trunk	\$11,964	2020
9037	Trunk Main	Trunk	\$114,240	2020
9038	Actuator	WRS	\$2,500	2007
9039	Actuator	WRS	\$2,500	2007
9040	Actuator	WRS	\$2,500	2007
9041	Information Sign	RCD	\$10,000	2020
9100	Structural Tank	NCWTP	\$60,700	2021
9101	Structural Tank	NCWTP	\$60,000	2021
9102	Walkway & Ladder	ECD	\$56,800	2021
9103	Laboratory Equipment	ECWTP	\$6,400	2021
9104	Process Flow Meter	NCWTP	\$4,000	2021
9105	Turbidity Analyser	NCWTP	\$10,000	2021
9106	Turbidity Analyser	NCWTP	\$10,000	2021
9107	Process Flow Meter	NCWTP	\$9,600	2020

Asset ID	Description	Area	Value	Install year
9108	Centrifugal Pump	NCWTP	\$176,600	2021
9109	Centrifugal Pump	NCWTP	\$176,600	2021
9110	Centrifugal Pump	NCWTP	\$176,600	2021
9111	Centrifugal Pump	NCWTP	\$176,600	2021
9112	Bulk Meter	Reservoirs	\$11,900	2020
9113	Bulk Meter	Reservoirs	\$11,900	2020
9114	Bulk Meter	Reservoirs	\$14,500	2020
9115	Bulk Meter	NCWTP	\$33,000	2010
9117	Ozone Generator	ECWTP	\$24,100	2020
9118	Power Supply and Cabling	NCWTP	\$250,800	2020
9200	Valve	NCWTP	\$17,600	2021
9201	Valve	NCWTP	\$17,600	2021
9202	Valve	NCWTP	\$17,600	2021
9203	Valve	NCWTP	\$17,600	2021
9204	Power Supply and Cabling	NCWTP	\$115,500	2021
9205	Switchboard	NCWTP	\$217,300	2021
9206	VSD	NCWTP	\$35,700	2021
9207	VSD	NCWTP	\$35,700	2021
9208	VSD	NCWTP	\$35,700	2021
9209	VSD	NCWTP	\$35,700	2021
9210	Roof	NCWTP	\$34,956	2021
9211	Floor Covering	NCWTP	\$26,217	2021
9212	Pit	NCWTP	\$28,900	2021
9213	UPS	NCWTP	\$35,100	2021
9214	Air Conditioner	NCWTP	\$4,612	2021
9215	Power Supply and Cabling	NCWTP	\$190,100	2021
9216	PLC	NCWTP	\$30,200	2021
9218	Trunk Main	Trunk	\$37,620	2021
9219	Trunk Main	Trunk	\$12,149,500	2021
9220	Trunk Main	Trunk	\$13,209,000	2021
9223	Trunk Main	Trunk	\$36,608	2021
9236	PLC	NCWTP	\$34,900	2021
9237	PLC	NCWTP	\$34,900	2021
9246	Air Receiver	WRS	\$24,800	2008
9420	Fire service	NCWTP	\$7,500	1992

Table 7: Future capital works included in the capital charge (2022 \$'000)

Year/Project	ILOS	New asset	Renewal	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Trunk																								
Broadwater 150 Upgrade (250mm Pipe)		45%	55%	600	588			554																
Byron 200 - Mains Renewal (375mm Pipe)		25%	75%	50		606																		
Converys Lane 150 - Mains Renewal			100%																					
Coraki 225 - Mains Renewal			100%	250		240		5,312																
Valve Replacement			100%	72	59	48		48		48		48		48										
Knockrow 450		15%	85%							133				7,067										
Ross St 375 Main			100%		118																			
St Helena 300/600 Mains Renewal /Augmentation		50%	50%	11,338	3,094																			
St Helena 300 Upgrade - St Helena 375		25%	75%				335			7,104														
St Helena 525 Corrosion Repairs			100%	739																				
St Helena 525 Wilsons River Crossing Remediation			100%		49																			
Instruments - Distribution			100%	5	6	6	6	6	5	7	6	6	6	6										
ICS - Wyreema Repeater		25%	75%								44													
Rocky Creek Dam																								
RCD - Installation of Catchment Signage (Regulatory/Information)			100%										25											
RCD - Destratification System			100%	340	81																			
RCD - Installation of New Catchment Gate		100%																						
Emigrant Creek Dam																								
ECD - Visitor Signage Renewal/Installation of Catchment Signage (Regulatory/Information)			100%		15	14							17											
ECD - Destratification System			100%		29	254																		
ECD - Renewal of Park Furniture and Boardwalks			100%		15	14																		
ECD - Outflow Monitoring/Causeway		100%				154																		
ECD - Spilway Security Improvements			100%	10																				
Wilsons River Source																								
WRS - Low Lift Switchboard Modifications and Shielding			100%		49		283																	
WRS - Howards Grass High Level Pump Station PLC			100%					139																
WRS - Howards Grass High Level Pump Station VSD			100%					314																
WRS - Howards Grass High Level Pump Station Switchboards			100%					139																
WRS - Howards Grass High Level Pump Station Ventilation Fan			100%					69																
WRS - Low Level Pump Station Vacuum Pump			100%					27																
WRS - Low Level Pump Station Backblast Compressor and Filters			100%					58																
WRS - Upgrade of Buffer Zone/Park Access Roads		100%																						
Existing Groundwater																								

Year/Project	ILOS	New asset	Renewal	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Water Source - Converys Lane			100%																					
Water Source - Lumley Park			100%																					
ICS - Lumley Park & Convereys Lane			100%																					
Implementation of High Priority CMP Actions			100%	5																				
<i>Future Water Project 2060</i>																								
Marom Creek Construction		100%																						
Alstonville Groundwater		100%		1,560	3,453	16,207	16,212																	
Marom /Alstonville Renewals			100%					161	164	166	169	171	226	177										
Woodburn Existing Bores		100%		208	208																			
Woodburn New Bores		100%		868	869	1,076																		
Woodburn Renewals			100%																					
Tyagarah Groundwater		100%		936	955	1,061	1,061	5,304	9,543	19,828	7,108													
Tyagarah Renewals			100%									229	232	235										
Groundwater Land Acquisition		100%		520	3,953	4,888	5,202	3,641																
Stage 3 Source Planning		100%											1,919											
DPR Pilot Scheme		100%		624	624	624	2,081	2,081																
Project Management		100%		3,054	3,057	2,893	2,693	3,215	1,499	1,567	1,591	702	264	263										
General																								
Corndale Fluoride Sidestream VSD		100%			20																			
Lower River pH Correction (CO2 and CL2 Dosing Facilities)		50%	50%			240																		
Fluoride Plants			100%				139					103												
Easements		100%		22	22	22	23	22	23	23	23	23	23	23										
Water Loss Implementation		60%	40%	520	466	457	448	439																
Bulk Meters - Renewals			100%	25	78	29	45	23	44	44	46	26	26	32										
Unplanned D&T Replacements			100%	70	69	67	66	65	63	62	61	60	59	57										
Water Filling Stations		100%		26	89																			
Reservoirs																								
Reservoirs Upgrade - Pineapple Rd			100%																					
Reservoirs Upgrade - St Helena Roof Refurbishment			100%	300																				
Reservoirs Upgrade - City View Roof Repairs			100%		58																			
Reservoirs Upgrade - Belvedere Drive			100%											22										
Reservoirs Upgrade - Coopers Shoot			100%											21										
Reservoirs Upgrade - Knockrow			100%											16										
Reservoirs Upgrade - Brunswick Heads			100%																					
Reservoirs Upgrade - High St			100%																					
Reservoirs Upgrade - St Helena			100%																					
ICS - Distribution Network		25%	75%					139	136	222														
Nightcap WTP																								
Nightcap WTP PLC SB Upgrade		25%	75%	223	726	481																		
Nightcap WTP Ozone			100%		34		471																	

Year/Project	ILOS	New asset	Renewal	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Nightcap WTP BAC Renewals			100%					335																
Nightcap WTP BAC Filter Media Renewal			100%					207		209		222		223										
Nightcap WTP Buildings (LED Lighting Upgrades)			100%		15	15	15	15			44													
Nightcap WTP Coagulation Dose Pumps			100%	38		76	39																	
Nightcap WTP DAFF			100%		49	331		159			4			3										
Nightcap WTP Stairs and Corrosion Repairs			100%		123																			
Nightcap WTP DAFF Filter Media			100%						342	336														
Nightcap WTP Saturator			100%																					
Nightcap WTP Disinfection			100%	57																				
Nightcap WTP Lime pH Correction			100%		4			56																
Nightcap WTP Jetty Corrosion			100%	300																				
Nightcap WTP Raw Water Pump			100%	64	15																			
Nightcap WTP Raw Water Structure			100%				189																	
Nightcap WTP Site Services			100%					1,386	1,359	1,332	1,306			349										
Nightcap WTP Septic Renewal			100%	15																				
Nightcap WTP Sludge			100%			56																		
Nightcap WTP Treated Water			100%			96	856																	
Nightcap WTP Wastewater			100%	31	30	31	31	31	32	32	31	32	31	31										
Nightcap WTP Bulk Chemical Storage		20%	80%	141	98	1,266																		
Instruments and Minor Items - NCWTP			100%	25	25	25	25	25	25	25	25	25	25	25										
Emigrant Creek WTP																								
Emigrant Creek WTP - ICS		25%	75%				189																	
Emigrant Creek WTP - Ind Communications Upgrade		100%		35																				
Emigrant Creek WTP Air System			100%								31													
Emigrant Creek WTP BAC			100%	382																				
Emigrant Creek WTP Bisulphite Dosing			100%				24																	
Emigrant Creek WTP Caustic pH Correction			100%				37																	
Emigrant Creek WTP CEB			100%				39																	
Emigrant Creek WTP Coagulation			100%				14																	
Emigrant Creek WTP Control Systems - Treatment			100%																					
Emigrant Creek WTP Fe/Mn Removal			100%				14																	
Emigrant Creek WTP Filtered Water			100%				12																	
Emigrant Creek WTP Floatation			100%				12																	
Emigrant Creek WTP HCl Dosing			100%				23																	
Emigrant Creek WTP Lime pH Correction			100%		4		14																	
Emigrant Creek WTP Membrane Filtration			100%		15		141	139	136															
Emigrant Creek WTP Outlet Pipe			100%	10																				
Emigrant Creek WTP Ozone			100%						362															
Emigrant Creek WTP Raw Water			100%								31													
Emigrant Creek WTP Raw Water			100%	150																				

Year/Project	ILOS	New asset	Renewal	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Emigrant Creek WTP Service Water		100%			34																			
Emigrant Creek WTP Site Services		100%			20																			
Emigrant Creek WTP Steel Tanks			100%	125																				
Emigrant Creek WTP Sludge			100%				55																	
Emigrant Creek WTP Sludge		50%	50%							44														
Emigrant Creek WTP Treated Water			100%						11															
Instruments and Minor Items - ECWTP			100%	22	22	22	22	22	22	22	22	22	22	22										
Buildings																								
Workplace Consolidation		100%		7,488	1,066	2,115																		
ICT																								
Indoor Staff Salaries Capitalised			100%	443	421	421	361	349	317	297	297	297	297	297										
Future Water Project year 11-30																								
Stage 3 design, documentation, approvals, project management		100%																	1,934	2,062	243	238		
Stage 3 land acquisition		100%																		5,292				
Stage 3 construction		100%																			21,148	20,734		
Total new assets and renewals				31,690	20,663	33,890	31,173	24,478	14,082	31,502	10,835	1,965	3,170	8,917					1,934	7,354	21,391	20,972		

Works to improve levels of service (ILOS) are not included in the developer charge calculation.

Public Exhibition

Table 8: Capital charge calculation (2022 \$)

Year	Total ET	New ET	Capital Cost	Effective capital cost serving post 1996 ETs	PV Factor @3%	PV Factor @ 5%	PV pre 1996 assets @ 3%	PV post 1996 assets @ 5%	PV New ETs for pre 1996 assets (@3%)	PV New ETs for post 1996 assets (@5%)
1996	43,694	1179	\$279,810	\$142,907	1.00	1.00	\$142,907		1179	1179
1997	44,889	1195	\$758	\$387	0.97	0.95		\$369	1160	1138
1998	46,068	1179	\$6,259	\$3,197	0.94	0.91		\$2,899	1112	1070
1999	47,232	1164	\$58	\$30	0.92	0.86		\$26	1065	1005
2000	48,380	1148	\$4,848	\$2,476	0.89	0.82		\$2,037	1020	945
2001	49,513	1133	\$276	\$141	0.86	0.78		\$110	977	888
2002	50,631	1118	\$3,980	\$2,033	0.84	0.75		\$1,517	936	834
2003	51,733	1102	\$524	\$268	0.81	0.71		\$190	896	783
2004	52,820	1087	\$1,346	\$688	0.79	0.68		\$465	858	736
2005	53,892	1072	\$3,455	\$1,764	0.77	0.64		\$1,137	821	691
2006	54,948	1056	\$23,093	\$11,794	0.74	0.61		\$7,241	786	648
2007	55,988	1041	\$2,289	\$1,169	0.72	0.58		\$683	752	608
2008	57,014	1025	\$60,095	\$30,692	0.70	0.56		\$17,090	719	571
2009	58,024	1010	\$2,379	\$1,215	0.68	0.53		\$644	688	536
2010	59,018	995	\$1,332	\$680	0.66	0.51		\$344	658	502
2011	59,997	979	\$6,033	\$3,081	0.64	0.48		\$1,482	628	471
2012	60,961	964	\$1,536	\$785	0.62	0.46		\$359	601	442
2013	61,910	948	\$644	\$329	0.61	0.44		\$143	574	414
2014	62,843	933	\$1,655	\$845	0.59	0.42		\$351	548	388
2015	63,760	918	\$14,389	\$7,349	0.57	0.40		\$2,908	523	363
2016	64,663	902	\$3,731	\$1,906	0.55	0.38		\$718	500	340
2017	65,549	887	\$2,411	\$1,231	0.54	0.36		\$442	477	318
2018	66,421	871	\$2,507	\$1,280	0.52	0.34		\$438	455	298
2019	67,277	856	\$4,890	\$2,498	0.51	0.33		\$813	434	279
2020	68,118	841	\$4,919	\$2,512	0.49	0.31		\$779	414	261
2021	68,943	825	\$27,313	\$13,949	0.48	0.30		\$4,119	394	244
2022	69,753	810	\$31,690	\$16,185	0.46	0.28		\$4,552	376	228
2023	70,547	795	\$20,663	\$10,553	0.45	0.27		\$2,827	358	213
2024	71,326	779	\$33,890	\$17,309	0.44	0.26		\$4,415	341	199
2025	72,090	764	\$31,173	\$15,921	0.42	0.24		\$3,868	324	186
2026	72,838	748	\$24,478	\$12,502	0.41	0.23		\$2,893	308	173
2027	73,571	733	\$14,082	\$7,192	0.40	0.22		\$1,585	293	162
2028	74,289	718	\$31,502	\$16,089	0.39	0.21		\$3,377	279	151
2029	74,991	702	\$10,835	\$5,534	0.38	0.20		\$1,106	265	140
2030	75,678	687	\$1,965	\$1,003	0.37	0.19		\$191	251	131
2031	76,349	671	\$3,170	\$1,619	0.36	0.18		\$293	239	122
2032	77,005	656	\$8,917	\$4,554	0.35	0.17		\$786	226	113
2033	77,646	641	\$0	\$0	0.33	0.16		\$0	215	105
2034	78,271	625	\$0	\$0	0.33	0.16		\$0	203	98
2035	78,881	610	\$0	\$0	0.32	0.15		\$0	193	91
2036	79,476	594	\$0	\$0	0.31	0.14		\$0	182	84
2037	80,055	579	\$1,934	\$988	0.30	0.14		\$134	172	78
2038	80,618	564	\$7,354	\$3,756	0.29	0.13		\$484	163	73
2039	81,167	548	\$21,391	\$10,925	0.28	0.12		\$1,341	154	67
2040	81,700	533	\$20,972	\$10,711	0.27	0.12		\$1,252	145	62
2041	82,217	518	\$0	\$0	0.26	0.11		\$0	137	58
2042	82,719	502	\$0	\$0	0.26	0.11		\$0	129	53
2043	83,206	487	\$0	\$0	0.25	0.10		\$0	121	49
2044	83,677	471	\$0	\$0	0.24	0.10		\$0	114	45
2045	84,133	456	\$0	\$0	0.23	0.09		\$0	107	42
2046	84,574	441	\$0	\$0	0.23	0.09		\$0	100	38
2047	84,999	425	\$0	\$0	0.22	0.08		\$0	94	35
2048	85,409	410	\$0	\$0	0.22	0.08		\$0	88	32
2049	85,803	394	\$0	\$0	0.21	0.08		\$0	82	30
2050	86,182	379	\$0	\$0	0.20	0.07		\$0	77	27
2051	86,546	364	\$0	\$0	0.20	0.07		\$0	72	25
2052	86,894	348	\$0	\$0	0.19	0.07		\$0	67	23
Totals		44379	\$724,546	\$370,046			\$142,907	\$76,410	25,048	18,883
				pre-1996				\$5,705 per ET		
				post-1996				\$4,046 per ET		
				Capital charge			\$9,752 per ET		2022\$	

Table 9: Reduction amount calculation (2022 \$)

<i>RCC LTFP - Bulk Water and Retail Water Operations (all RCC service areas)</i>				
Year	2022 Budget estimates			
Bulk supply income	\$22,542,100	User charges and fees		
OMA cost	\$19,693,800	Operating expense less depreciation and borrowing costs		
Net income p.a.	\$2,848,300			
Net income per ET	\$40.83			
Year	Total ET	New ET p.a.	Cumulative new ET p.a.	Net Income from new ETs (2022\$)
2022	69,753			
2023	70,547	795	795	32,443
2024	71,326	779	1,574	64,258
2025	72,090	764	2,337	95,445
2026	72,838	748	3,086	126,003
2027	73,571	733	3,819	155,933
2028	74,289	718	4,536	185,234
2029	74,991	702	5,238	213,907
2030	75,678	687	5,925	241,952
2031	76,349	671	6,597	269,368
2032	77,005	656	7,253	296,156
2033	77,646	641	7,893	322,316
2034	78,271	625	8,519	347,847
2035	78,881	610	9,128	372,750
2036	79,476	594	9,723	397,024
2037	80,055	579	10,302	420,670
2038	80,618	564	10,866	443,688
2039	81,167	548	11,414	466,077
2040	81,700	533	11,947	487,838
2041	82,217	518	12,464	508,970
2042	82,719	502	12,966	529,474
2043	83,206	487	13,453	549,350
2044	83,677	471	13,925	568,597
2045	84,133	456	14,380	587,216
2046	84,574	441	14,821	605,207
2047	84,999	425	15,246	622,569
2048	85,409	410	15,656	639,303
2049	85,803	394	16,050	655,408
2050	86,182	379	16,429	670,885
2051	86,546	364	16,793	685,734
2052	86,894	348	17,141	699,954
PV New ET @ 5%		10,100		
PV Net Income		\$5,259,650		
Reduction Amount		\$521	per ET	



Development Servicing Plan

Retail Water Supply

November 2022

Public Exhibition

This DSP has been prepared by Hydrosphere Consulting on behalf of Rous County Council.

Hydrosphere Consulting Pty Ltd
Suite 6, 26-54 River Street
PO Box 7059, BALLINA NSW 2478
hydrosphere.com.au

© Copyright 2022 Hydrosphere Consulting

**22-031: ROUS DEVELOPMENT SERVICING PLANS
RETAIL WATER SUPPLY DSP**

REV	DESCRIPTION	AUTHORS	REVIEW	APPROVAL	DATE
0	Draft for RCC review	R. Campbell	M. Howland	M. Howland	14 June 2022
1	Draft for external audit	R. Campbell	M. Howland	M. Howland	12 July 2022
2	Updated for public exhibition	R. Campbell	M. Howland	M. Howland	21 August 2022
3	Updated for public exhibition	R. Campbell	M. Howland	M. Howland	29 November 2022

CONTENTS

SUMMARY	i
1. INTRODUCTION.....	1
2. ADMINISTRATION	1
2.1 DSP Area	1
2.2 Application of Developer Charges	1
2.3 Timing and Payment of Developer Charges	2
2.4 Review.....	2
2.5 Indexation.....	2
2.6 Exemption	2
2.7 Deferral of Charges.....	3
3. LAND USE PLANNING.....	3
3.1 Growth Projections.....	3
3.2 Land Use Information.....	4
4. WATER SUPPLY INFRASTRUCTURE.....	4
4.1 Existing Assets.....	4
4.2 Future Capital Works	4
4.3 Reticulation Works	5
5. LEVELS OF SERVICE.....	5
6. DESIGN PARAMETERS.....	6
7. DEVELOPER CHARGES METHODOLOGY.....	7
7.1 Capital Charge	7
7.2 Reduction Amount.....	7
8. DEVELOPER CHARGE CALCULATION	8
9. OTHER DSPS AND RELATED CONTRIBUTION PLANS	9
REFERENCES	10
GLOSSARY AND ABBREVIATIONS	11
APPENDIX 1 DSP AREA MAP.....	13
APPENDIX 2 DSP BACKGROUND DOCUMENT.....	17

FIGURES

Figure 1: Future capital works costs included in the DSP 5

Figure 2: DSP area – RCC retail water supply 15

TABLES

Table 1: Developer charges (2022\$) 1

Table 2: Growth projections 3

Table 3: Levels of service – retail water supply 6

Table 4: Capital charge and developer charge – retail water supply (2022\$) 8

Table 5: Reduction amount – all RCC water supply (2022\$) 8

Table 6: Existing retail water supply assets included in the capital charge (2022 \$) 18

Table 7: Future capital works program (2022 \$'000) 21

Table 8: Capital charge calculation (2022\$) 22

Table 9: Reduction amount calculation (2022 \$) 23

Public Exhibition

SUMMARY

This Development Servicing Plans (DSP) covers retail water supply developer charges for the development areas served by the Rous County Council (RCC) retail water supply network.

In preparing the DSP, Council has considered the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater* (DPI Water, 2016) issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act 2000*.

The area covered by this DSP is shown on the map attached in Appendix 1.

The timing and expenditure for works serving the areas covered by this DSP are shown in the DSP Background Document (Appendix 2). Future capital works expenditure included in RCC's Total Asset Management Plan (TAMP) have been applied to the DSP including asset renewals and upgrades. The TAMP is updated annually by RCC.

System design and operation in the DSP area are based on RCC's levels of service summarised in Section 5 including restrictions during drought conditions and water quality.

The water supply developer charge for the area covered by this DSP is given in Table 1.

Table 1: Developer charges (2022\$)

DSP Area	Service Area	Developer Charge (per ET)
Retail Water DSP	All retail water supply areas	\$356

Additional developer charges for bulk water supply are also levied by RCC for development within the retail DSP area.

Developer charges relating to this DSP document will be reviewed within 4 to 8 years.

In the period between any review, developer charges will be adjusted on 1 July annually (using the 12-month CPI (All Groups) for Sydney), excluding the impact of GST.

Developers are responsible for the full cost of the design and construction of water supply reticulation works within subdivisions.

Background information containing all the critical data including calculation models behind each DSP is available on request.

1. INTRODUCTION

Rous County Council (RCC) is a single purpose bulk water authority constituted as a county council under the *Local Government Act 1993*. RCC provides water supply services to rural and urban connections direct from the bulk supply trunk main system (retail customers) in the local government areas of Ballina Shire Council, Byron Shire Council, Lismore City Council and Richmond Valley Council.

Section 64 of the *Local Government Act, 1993* enables a local government authority to levy developer charges for water supply, sewerage and stormwater. This derives from a cross-reference in that Act to section 306 of the *Water Management Act, 2000*.

A Development Servicing Plan (DSP) details the water supply developer charges to be levied on development areas utilising a water utility's water supply infrastructure.

This document covers developer charges for the development areas serviced by the RCC retail water supply. In preparing the DSP, RCC has considered the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater* (DPIE Water, 2016) issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act, 2000*.

RCC may develop or review policies related to the application or administration of developer charges.

2. ADMINISTRATION

2.1 DSP Area

The area covered by this DSP is shown on the map attached in Appendix 1.

The DSP area boundary is defined as the area served by the RCC retail water supply scheme, in the constituent council local government areas of Ballina Shire Council, Byron Shire Council, Lismore City Council and Richmond Valley Council.

The basis for defining the DSP area boundary is the existing and future development serviced by the RCC retail water supply system.

2.2 Application of Developer Charges

RCC will assess the demand for service in terms of equivalent tenements (ET) in accordance with the *Section 64 Determinations of Equivalent Tenements Guidelines* (NSW Water Directorate, 2009) or other related policy or methodology approved by RCC. RCC will levy retail water supply developer charges proportional to the number of ETs (determined using the current average water consumption for an average residential dwelling (181 kL/ET p.a. as discussed in Section 3.1).

The developer charges will apply to new development and re-development (i.e. change of use). This includes the connection of land with existing residences and/or non-residential buildings and the internal developments and community asset developments of the constituent councils if retail water supply developer charges have not been paid previously.

RCC may also develop or review other policies related to the application or administration of developer charges.

2.3 Timing and Payment of Developer Charges

On receipt of a Development Application or a Water Service Application, RCC will advise the charges payable under this DSP.

Developer charges will be determined and levied in accordance with the provisions of this DSP at the time of considering an application for a compliance certificate under section 305 of the *Water Management Act 2000* or a construction certificate under section 109 of the *Environmental Planning and Assessment Act 1979* or at the time of issuing a notice or other form of written advice e.g. under the *SEPP (Exempt and Complying Development Codes) 2008* or approval under section 68 of the *Local Government Act 1993*. The time limit for payment of developer charges will be included in the notice of determination or will be advised to the developer by a separate notice. The developer contribution will be at the rate that applies at the time of payment i.e. the rate may increase (through indexation or review of this DSP) from the time the condition appears on the notice of development consent until the payment is received.

A Subdivision Certificate, Occupancy Certificate, Complying Development Certificate or, where so conditioned the approval of a Section 68 Application, will not be issued until the conditions of the Certificate of Compliance have been fulfilled.

Dispute resolution procedures are discussed in the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater*. RCC is not a member of the Electricity and Water Ombudsman.

Payment of developer charges must be made in the form of a cash payment to RCC.

2.4 Review

The developer charge relating to this DSP document will be reviewed within 4 to 8 years. A shorter review period may be appropriate if a major change in circumstances occurs.

If the review indicates that the developer charge in the DSP remains valid, the DSP will apply for a further five years after RCC releases a public notice to this effect. However, if it is considered that a new DSP is warranted, a new DSP shall be prepared, audited, exhibited and registered.

2.5 Indexation

In the period between any review, developer charges will be adjusted on 1 July annually (using the 12-month CPI (All Groups) for Sydney), excluding the impact of GST.

2.6 Exemption

Under section 306 (4) and (5) of the *Water Management Act 2000*, the Minister for Planning may make a determination in regard to developer charges levied on Crown development. Crown developments for essential community services (education, health, community services, and law and order) are exempt from general developer charges. Water utilities may charge these developments only for that portion of the direct connection cost (e.g. for a lead-in main) relating to Crown development.

RCC may also apply other exemptions for developer charges.

2.7 Waiver of Charges

RCC may waive developer contributions where the proponent demonstrates to RCC's satisfaction that it is a non-profit and charitable organisation, which by virtue of carrying out such development, is considered by RCC to be making a significant and positive contribution to the community and is unable to recover the charge from the end user. Charges will be applicable for any commercial operation that is part of the development.

2.8 Deferral of Charges

RCC may consider deferring charges payable by a developer. RCC will assess the merit of any request to defer developer charges with consideration of any policy available at that time. Only RCC has the authority to approve deferred payment arrangements for RCC developer contributions.

3. LAND USE PLANNING

3.1 Growth Projections

Growth projections have been developed from data provided by the constituent councils for future development within the retail water supply area. The data shown in the following table have been derived from the future demand forecast prepared by RCC in association with the constituent councils (Hydrosphere Consulting, 2020) and is presented as the number of retail water supply ETs. An ET is the demand a development will have on infrastructure in terms of the water consumption for an average residential dwelling in the RCC water supply area. The current average demand is 181 kL/a (average residential demand across the RCC supply area over the five years 2016 - 2020) and represents 1 ET.

Table 2: Growth projections

Year	Total number of water supply ETs
1996	1,936
2000	2,560
2005	3,285
2010	3,950
2015	4,554
2020	5,097
2023	5,394
2025	5,580
2030	6,001
2035	6,363
2040	6,663
2045	6,903

Year	Total number of water supply ETs
2050	7,083
2052	7,137

3.2 Land Use Information

This DSP should be read in conjunction with the constituent council Local Environmental Plans and Development Control Plans.

4. WATER SUPPLY INFRASTRUCTURE

4.1 Existing Assets

All existing assets servicing the retail water supply area are included in the capital charge calculations except for the following:

- Assets which will be more than 30 years old at the commencement of the DSP (i.e. commissioned pre-1993).
- Assets which are unlikely to be fully utilised over the planning horizon for calculating developer charges.
- Reticulation pipes (≤ 80 mm) which are typically paid for directly by developers.
- Gifted assets which were built by developers and later transferred to RCC.

Existing assets have been valued on the basis of Modern Engineering Equivalent Replacement Asset (MEERA) excluding contingencies. The existing assets servicing the area covered by the DSPs are listed in the DSP Background Document (Appendix 2).

4.2 Future Capital Works

The RCC capital works program is developed and reviewed annually through asset management planning (review of asset capacity, level of service and asset renewal requirements) as part of RCC's Total Asset Management Plan (TAMP) development. Future assets have been valued on the basis of MEERA including contingencies.

The DSP includes 10 years (2023 – 2032) of future capital works where these works will service the growth areas or where existing assets that service the growth areas will require replacement within 10 years (and the original asset has not been included in the calculation). Where possible, the construction of new assets servicing a development has been timed to match expected staging of the development. Similarly, the timing of the replacement of these assets has been estimated from the predicted remaining life and renewal requirements.

Capital works of \$2.4 million (2022\$) will be required over the next 10 years (between 2023 and 2032) to provide retail water supply services. The future capital works included in the DSP are required for servicing of growth as well as renewal of assets over the next 10 years. The timing and expenditure for water supply capital works serving the areas covered by this DSP are shown in the DSP Background Document

(Appendix 2) and presented in Figure 1. Works to improve levels of service for existing customers are not included in the DSP. Any capital works in addition to those identified in this plan will be funded by developers.

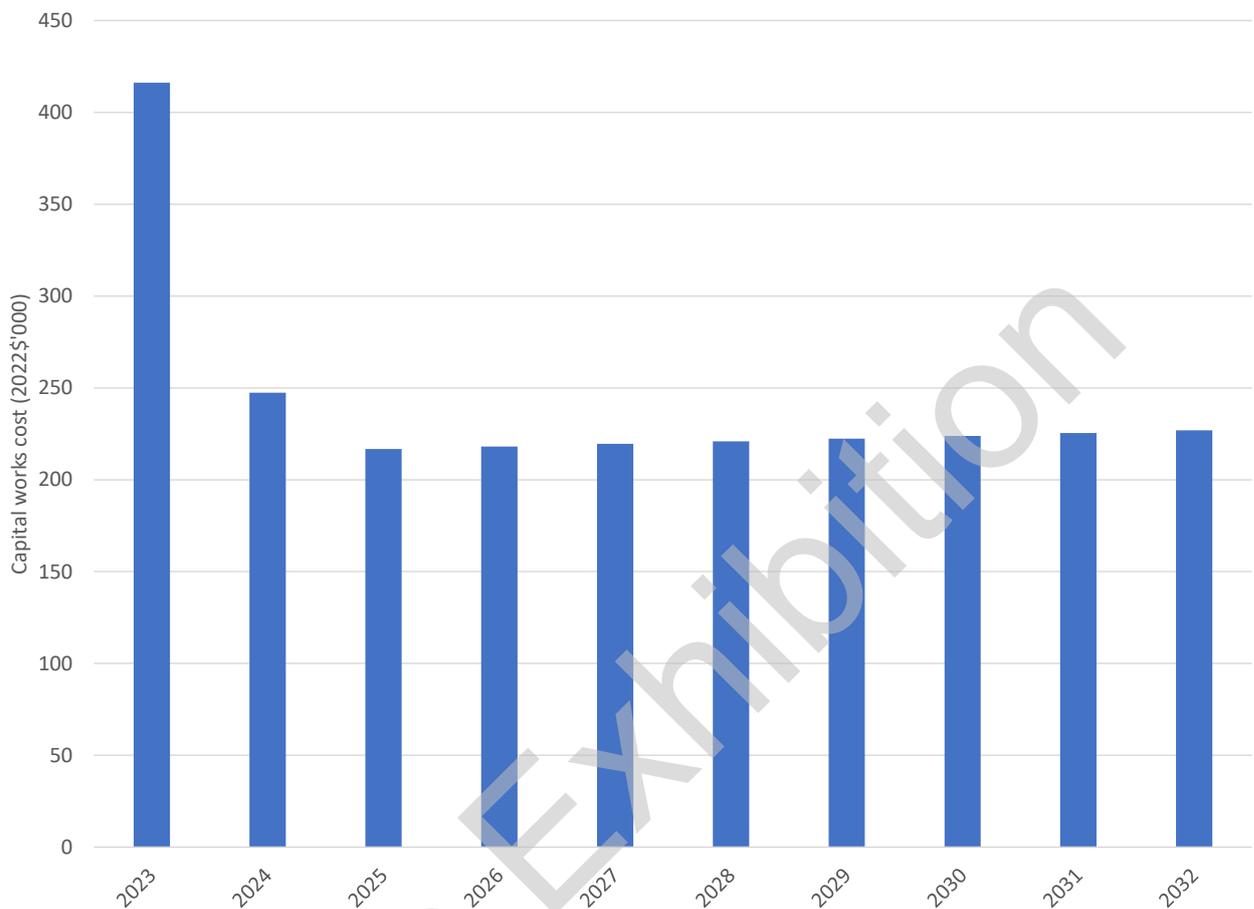


Figure 1: Future capital works costs included in the DSP

4.3 Reticulation Works

The developer shall be responsible for the full cost of the design and construction of water supply reticulation works within developments/subdivisions.

5. LEVELS OF SERVICE

Retail water supply system design and operation are based on providing the levels of service (LOS) developed as part of the *Future Water Project 2060* adopted following public consultation in 2021 and 2022 (Table 3). The LOS applied to RCC's water supply systems are the targets that RCC aims to achieve. They are not a customer contract.

Table 3: Levels of service – retail water supply

Description	Units	Target level of service
Water availability		
Average annual water to be supplied for one detached residential dwelling (1 ET)	kL/a	181
Consumption restrictions in droughts		
Maximum duration of restrictions	months per 10-year period	6 (i.e. 5% of the time)
Maximum frequency of restrictions	number of times per 10 years	1 (i.e. 10% of years)
Ability to supply demand through the worst drought on record	% of water demand	90 (i.e. a 10% reduction in average consumption)
Interruptions to supply (per year per supply)		
<i>Planned</i>		
Maximum duration	hours	12
Notice given to domestic customers	days	7
<i>Unplanned</i>		
Maximum duration	hours	24
Water quality		
Potable water quality	-	Meets Australian Drinking Water Guidelines

6. DESIGN PARAMETERS

Investigation, design and construction of water supply components are based on:

- RCC's levels of service and asset management planning.
- *Northern Rivers Local Government Development Design and Construction Manual*.
- *Water Supply Investigation Manual* (1986).
- Water Services Association of Australia water supply codes and standards.

7. DEVELOPER CHARGES METHODOLOGY

Developer charges are up-front charges levied to recover part of the infrastructure costs incurred in servicing new developments or additions/changes to existing developments. Developer charges serve two related functions:

- They provide a source of funding for infrastructure required for new urban development.
- They provide signals regarding the cost of urban development and thus encourage less costly forms and areas of development.

The developer charges calculation is based on the net present value (NPV) approach adopted by the Independent Pricing and Regulatory Tribunal (IPART) for the metropolitan water utilities. The fundamental principle of the NPV approach is that the investment in assets for serving a development area is fully recovered from the development. The investment is recovered through up-front charges (i.e. developer charges) and the present value (PV) of that part of annual bills received from the development in excess of operation, maintenance and administration (OMA) costs.

$$\text{Developer Charge} = \text{Capital Charge (cost of providing the assets)} - \text{Reduction Amount (cost recovered through annual bills).}$$

In setting the developer charges, RCC may consider financial, social and environmental factors to determine a level of developer charges that is balanced, fair and meet RCC's objectives.

The capital charge and reduction amount are discussed further in the following sections. The developer charges process is described fully in the 2016 *Developer Charges Guidelines for Water Supply, Sewerage and Stormwater*.

7.1 Capital Charge

The capital charges were calculated for RCC retail water supply service area based on the existing and future assets providing the services in this area. The capital charge is calculated by dividing the present value (PV) of the cost of the assets by the PV of the number of new ETs.

The capital charge represents the efficient capital cost of assets used in providing water related services in a DSP area. This includes the cost of both existing and future assets that will be used to service the DSP area. In addition, because local water utilities provide the upfront funding for constructing these assets, the capital charge also includes a commercial return on this investment.

7.2 Reduction Amount

The reduction amount represents the portion of the cost of assets that RCC expects to recover through water supply revenue. RCC has adopted the NPV of annual bills method to calculate the reduction amount. This method calculates the reduction amount as the NPV for 30 years of the future net income from water supply charges (revenue from charges less operation, maintenance and administration costs) for the RCC development areas.

8. DEVELOPER CHARGE CALCULATION

The capital charge, reduction amount and developer charge for the water supply area covered by this DSP are shown in the following tables. The charges are shown in 2022\$. RCC will apply the maximum developer charge with no cross-subsidy payable by existing customers.

Capital charge, agglomeration and reduction amount calculations for each service area are shown in Appendix 2.

Table 4: Capital charge and developer charge – retail water supply (2022\$)

DSP Area	Capital Charge (\$ per ET)	Reduction Amount (\$ per ET)	Calculated Maximum Developer Charge (\$ per ET)	Proposed Developer Charge (\$ per ET)
Retail water supply area	\$877	\$521	\$356	\$356

Table 5: Reduction amount – all RCC water supply (2022\$)

Year	Total ETs	New ETs	Net income from new ETs (\$)¹
2022	69,753		
2023	70,547	795	32,443
2024	71,326	779	64,258
2025	72,090	764	95,445
2026	72,838	748	126,003
2027	73,571	733	155,933
2028	74,289	718	185,234
2029	74,991	702	213,907
2030	75,678	687	241,952
2031	76,349	671	269,368
2032	77,005	656	296,156
2033	77,646	641	322,316
2034	78,271	625	347,847
2035	78,881	610	372,750
2036	79,476	594	397,024
2037	80,055	579	420,670
2038	80,618	564	443,688
2039	81,167	548	466,077
2040	81,700	533	487,838

Year	Total ETs	New ETs	Net income from new ETs (\$)¹
2041	82,217	518	508,970
2042	82,719	502	529,474
2043	83,206	487	549,350
2044	83,677	471	568,597
2045	84,133	456	587,216
2046	84,574	441	605,207
2047	84,999	425	622,569
2048	85,409	410	639,303
2049	85,803	394	655,408
2050	86,182	379	670,885
2051	86,546	364	685,734
2052	86,894	348	699,954
<i>Present value</i>		10,100	5,259,650
<i>Reduction amount (\$ per ET)</i>			521

1. Calculated from RCC water supply financial planning outputs (income and operating expenses less depreciation and borrowing costs) for the whole RCC water supply system. Differences in operating costs between the bulk water supply and retail water supply areas have not been considered in the reduction amount.

9. OTHER DSPS AND RELATED CONTRIBUTION PLANS

The following DSPs and contribution plans may also apply to development within the retail water supply area:

- Constituent council developer contributions plans.
- RCC Bulk Water Supply Development Servicing Plan.

REFERENCES

DPI Water (2016) *Developer Charges Guidelines for Water Supply Sewerage and Stormwater*.

Hydrosphere Consulting (2020) *Rous County Council Bulk Water Supply Demand Forecast: 2020 – 2060*, October 2020.

Hydrosphere Consulting (2022) *Rous Regional Supply: Future Water Project 2060 Integrated Water Cycle Management Strategy*. April 2022.

Water Directorate (2017) *Section 63 Determinations of Equivalent Tenement Guidelines*.

Public Exhibition

GLOSSARY AND ABBREVIATIONS

CPI	consumer price index
DSP	Development Servicing Plan
ET	equivalent tenement
IPART	NSW Independent Pricing and Regulatory Tribunal
Kilolitre (kL)	1,000 litres
LWU	Local Water Utility
MEERA	Modern Engineering Equivalent Replacement Asset
ML	megalitre (1,000,000 litres, or 1,000 kilolitres)
NPV	net present value
OMA	operation, maintenance and administration (cost)
p.a.	per annum
PV	present value. The current value of future money or ETs
RCC	Rous County Council

Public Exhibition

APPENDIX 1 DSP AREA MAP

Public Exhibition

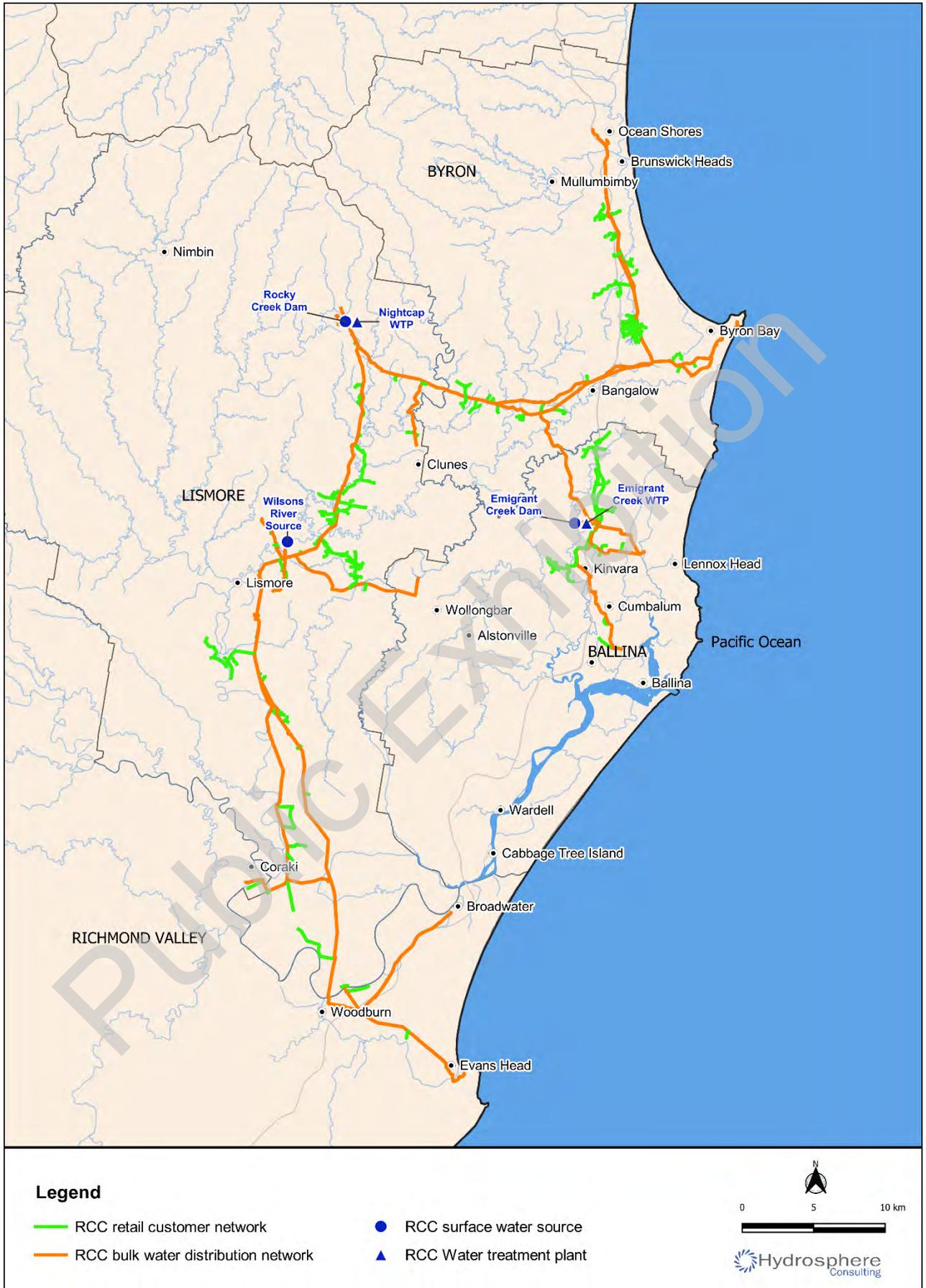


Figure 2: DSP area – RCC retail water supply

APPENDIX 2 DSP BACKGROUND DOCUMENT

Public Exhibition

Table 6: Existing retail water supply assets included in the capital charge (2022 \$)

Asset ID	Description	Value	Install year
72	Pipework/Fitting	\$6,900	1996
3259	Distribution Main	\$48,010	2006
3306	Distribution Main	\$22,828	2006
3342	Distribution Main	\$11,310	1994
3370	Distribution Main	\$278,132	1995
3386	Distribution Main	\$126,863	2007
3390	Distribution Main	\$17,934	2006
3391	Distribution Main	\$41,621	2006
3392	Distribution Main	\$55,155	2006
3427	Distribution Main	\$165,581	2000
3443	Distribution Main	\$15,054	2007
3464	Distribution Main	\$6,841	1994
3465	Distribution Main	\$76,947	2005
3466	Distribution Main	\$26,845	2005
3467	Distribution Main	\$8,488	1997
3498	Distribution Main	\$71,013	1998
3500	Distribution Main	\$35,502	1999
3530	Distribution Main	\$37,277	1996
3531	Distribution Main	\$24,945	2001
3541	Distribution Main	\$546,860	2008
3551	Distribution Main	\$37,564	2010
3552	Distribution Main	\$75,442	2010
3834	Pressure Reducing Valve	\$1,000	2010
4321	Pressure Reducing Valve	\$3,200	2010
6233	Distribution Main	\$22,288	2011
6234	Distribution Main	\$18,327	2011
6235	Distribution Main	\$36,888	2011
6236	Distribution Main	\$50,880	2011
6262	Auto-Valve	\$3,200	1997
6268	Auto-Valve	\$3,200	1995
6274	Pressure Reducing Valve	\$8,600	2004
6277	Pressure Reducing Valve	\$3,200	2011
6279	Pressure Reducing Valve	\$3,200	2008
6301	Storage Tank	\$5,800	2010
6302	Storage Tank	\$5,800	2011
6323	Building	\$2,603	1996
6365	Pressure Reducing Valve	\$5,100	2012
6378	Distribution Main	\$3,737	2011
6382	Distribution Main	\$11,357	2011

Asset ID	Description	Value	Install year
6383	Distribution Main	\$19,907	2011
6384	Distribution Main	\$60,750	2011
6385	Distribution Main	\$92,664	2011
6502	Pressure Reducing Valve	\$2,800	2008
6565	Distribution Main	\$27,030	2012
6567	Distribution Main	\$39,273	2012
6706	Distribution Main	\$15,729	2014
6853	Distribution Main	\$13,747	2014
6860	Distribution Main	\$23,182	2014
6863	Distribution Main	\$44,997	2014
6864	Distribution Main	\$26,319	2014
6865	Distribution Main	\$15,245	2014
6878	Level Sensor	\$4,300	2012
6897	Level Sensor	\$4,300	2004
6915	Telemetry	\$13,000	2015
6928	Telemetry	\$13,000	2015
6938	Telemetry	\$13,139	2015
6941	Telemetry	\$13,000	2015
6964	Building	\$35,346	2015
6965	Switchboard	\$120,000	2015
6966	Centrifugal Pump	\$42,400	2015
6967	Centrifugal Pump	\$42,400	2015
6968	VSD	\$25,500	2015
6969	VSD	\$25,500	2015
6972	Bulk Meter	\$7,600	2015
6985	Distribution Main	\$70,200	2015
6991	Bulk Meter	\$6,400	2015
7022	Distribution Main	\$129,149	2016
7165	Distribution Main	\$22,791	2016
7166	Distribution Main	\$24,300	2016
7167	Distribution Main	\$8,560	2016
7430	Centrifugal Pump	\$5,500	2016
7431	Centrifugal Pump	\$5,500	2016
7432	Centrifugal Pump	\$5,500	2016
7433	VSD	\$4,400	2016
7434	VSD	\$4,400	2016
7435	VSD	\$4,400	2016
7436	Process Flow Meter	\$5,600	2016
7437	Switchboard	\$5,800	2016
7488	Switchboard	\$38,500	2016
7496	Pit	\$12,924	2010

Asset ID	Description	Value	Install year
7497	Pit	\$12,924	2010
7498	Pit	\$12,924	2010
7506	Pipework/Fitting	\$24,400	2004
7507	Pipework/Fitting	\$56,000	2004
7509	Pipework/Fitting	\$48,000	2005
7581	Roof	\$2,642	1996
7602	Services - Electrical	\$12,748	2015
7609	Sub-Structure	\$1,593	1996
7622	Services - Mechanical	\$1,159	2015
7666	Services - Electrical	\$932	1996
7667	Services - Hydraulics	\$7,533	2015
7683	Sub-Structure	\$22,019	2015
7811	Walkway & Ladder	\$11,000	2018
7829	Distribution Main	\$368,424	2018
7978	Distribution Main	\$45,424	2019
8031	Pressure Reducing Valve	\$2,500	2019
8059	Pressure Reducing Valve	\$3,200	2019
8912	Pressure Reducing Valve	\$2,500	2020
8930	Distribution Main	\$30,629	2020
8931	Distribution Main	\$64,126	2020
8932	Distribution Main	\$78,020	2020
8938	Distribution Main	\$183,180	2020
8939	Distribution Main	\$33,712	2020
9217	Power Supply and Cabling	\$3,400	2020
9242	Distribution Main	\$97,760	2021
9244	Distribution Main	\$55,460	2021

Note: Distribution mains are the RCC retail mains and do not include mains constructed by developers. Reticulation mains (≤ 80 mm) are excluded from the capital charge calculation.

Table 7: Future capital works program (2022 \$'000)

Year/Project	ILOS	New asset	Renewal	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Distribution mains		100%		100			148	148	148	148	148	148	148	148
Mains Renewal - Delivery Carney Place			100%			100								
Mains Renewal - Delivery Muldoon Rd			100%			80								
Mains Renewal - Kahala Place, Laihana Crescent Place and Kaanapahali Avenue, and Ridgeland Close, Richmond Hill			100%	313										
Mains Renewal - Grace Road			100%		350									
Indoor Staff Salaries Capitalised			100%	63	66	67	69	70	72	73	74	76	77	79
Total new assets and renewals				476	416	247	217	218	220	221	222	224	225	227

Works to improve levels of service (ILOS) are not included in the developer charge calculation.

Table 8: Capital charge calculation (2022\$)

Year	Total ET	New ET	Capital Cost	Effective capital cost serving post 1996 ETs	PV Factor @3%	PV Factor @ 5%	PV pre 1996 assets @ 3%	PV post 1996 assets @ 5%	PV New ETs for pre 1996 assets (@3%)	PV New ETs for post 1996 assets (@5%)
1996	1,925	156	\$351	\$264	1.00	1.00	\$264		156	156
1997	2,084	159	\$12	\$9	0.97	0.95		\$8	154	151
1998	2,240	156	\$71	\$53	0.94	0.91		\$48	147	142
1999	2,394	154	\$36	\$27	0.92	0.86		\$23	141	133
2000	2,546	151	\$166	\$124	0.89	0.82		\$102	135	125
2001	2,695	149	\$25	\$19	0.86	0.78		\$15	129	117
2002	2,841	147			0.84	0.75			123	109
2003	2,986	144			0.81	0.71			117	103
2004	3,127	142	\$93	\$70	0.79	0.68		\$47	112	96
2005	3,267	139	\$152	\$114	0.77	0.64		\$73	107	90
2006	3,404	137	\$186	\$139	0.74	0.61		\$86	102	84
2007	3,539	135	\$142	\$107	0.72	0.58		\$62	97	79
2008	3,671	132	\$553	\$415	0.70	0.56		\$231	93	74
2009	3,801	130			0.68	0.53			88	69
2010	3,928	127	\$162	\$121	0.66	0.51		\$61	84	64
2011	4,053	125	\$326	\$245	0.64	0.48		\$118	80	60
2012	4,175	123	\$76	\$57	0.62	0.46		\$26	76	56
2013	4,296	120			0.61	0.44			73	52
2014	4,413	118	\$139	\$105	0.59	0.42		\$43	69	49
2015	4,529	115	\$471	\$354	0.57	0.40		\$140	66	46
2016	4,641	113	\$264	\$199	0.55	0.38		\$75	63	43
2017	4,752	110			0.54	0.36			59	40
2018	4,860	108	\$379	\$285	0.52	0.34		\$97	56	37
2019	4,966	106	\$51	\$38	0.51	0.33		\$12	54	34
2020	5,069	103	\$396	\$297	0.49	0.31		\$92	51	32
2021	5,170	101	\$153	\$115	0.48	0.30		\$34	48	30
2022	5,268	98	\$476	\$357	0.46	0.28		\$100	46	28
2023	5,364	96	\$416	\$312	0.45	0.27		\$84	43	26
2024	5,458	94	\$247	\$186	0.44	0.26		\$47	41	24
2025	5,549	91	\$217	\$163	0.42	0.24		\$40	39	22
2026	5,638	89	\$218	\$164	0.41	0.23		\$38	37	21
2027	5,724	86	\$220	\$165	0.40	0.22		\$36	35	19
2028	5,808	84	\$221	\$166	0.39	0.21		\$35	33	18
2029	5,889	82	\$222	\$167	0.38	0.20		\$33	31	16
2030	5,968	79	\$224	\$168	0.37	0.19		\$32	29	15
2031	6,045	77	\$225	\$169	0.36	0.18		\$31	27	14
2032	6,119	74	\$227	\$170	0.35	0.17		\$29	26	13
2033	6,191	72			0.33	0.16			24	12
2034	6,261	69			0.33	0.16			23	11
2035	6,328	67			0.32	0.15			21	10
2036	6,392	65			0.31	0.14			20	9
2037	6,455	62			0.30	0.14			19	8
2038	6,514	60			0.29	0.13			17	8
2039	6,572	57			0.28	0.12			16	7
2040	6,627	55			0.27	0.12			15	6
2041	6,679	53			0.26	0.11			14	6
2042	6,729	50			0.26	0.11			13	5
2043	6,777	48			0.25	0.10			12	5
2044	6,822	45			0.24	0.10			11	4
2045	6,865	43			0.23	0.09			10	4
2046	6,906	40			0.23	0.09			9	4
2047	6,944	38			0.22	0.08			8	3
2048	6,979	36			0.22	0.08			8	3
2049	7,013	33			0.21	0.08			7	3
2050	7,044	31			0.20	0.07			6	2
2051	7,072	28			0.20	0.07			6	2
2052	7,098	26			0.19	0.07			5	2
Totals		5,329	\$7,116	\$5,342			\$264	\$1,901	3,128	2,398
				pre-1996			\$84	per ET		
				post-1996			\$793	per ET		
				Capital charge			\$877	per ET	2022\$	

Table 9: Reduction amount calculation (2022 \$)

<i>RCC LTFP - Bulk Water and Retail Water Operations (all RCC service areas)</i>				
Year	2022 Budget estimates			
Bulk supply income	\$22,542,100	User charges and fees		
OMA cost	\$19,693,800	Operating expense less depreciation and borrowing costs		
Net income p.a.	\$2,848,300			
Net income per ET	\$40.83			
Year	Total ET	New ET p.a.	Cumulative new ET p.a.	Net Income from new ETs (2022\$)
2022	69,753			
2023	70,547	795	795	32,443
2024	71,326	779	1,574	64,258
2025	72,090	764	2,337	95,445
2026	72,838	748	3,086	126,003
2027	73,571	733	3,819	155,933
2028	74,289	718	4,536	185,234
2029	74,991	702	5,238	213,907
2030	75,678	687	5,925	241,952
2031	76,349	671	6,597	269,368
2032	77,005	656	7,253	296,156
2033	77,646	641	7,893	322,316
2034	78,271	625	8,519	347,847
2035	78,881	610	9,128	372,750
2036	79,476	594	9,723	397,024
2037	80,055	579	10,302	420,670
2038	80,618	564	10,866	443,688
2039	81,167	548	11,414	466,077
2040	81,700	533	11,947	487,838
2041	82,217	518	12,464	508,970
2042	82,719	502	12,966	529,474
2043	83,206	487	13,453	549,350
2044	83,677	471	13,925	568,597
2045	84,133	456	14,380	587,216
2046	84,574	441	14,821	605,207
2047	84,999	425	15,246	622,569
2048	85,409	410	15,656	639,303
2049	85,803	394	16,050	655,408
2050	86,182	379	16,429	670,885
2051	86,546	364	16,793	685,734
2052	86,894	348	17,141	699,954
PV New ET @ 5%		10,100		
PV Net Income		\$5,259,650		
Reduction Amount		\$521	per ET	



Rous County

DSP Auditor's Report

Document Control

Revision	2	Date	27 September 2022
Auditor	Gidi Azar	0448 480 200	gidi@wateroz.com.au
Document	Rous_DSP_Audit_Rev2		

This revision supersedes previous versions.

© WaterOz 2022

CONTENTS

1 Introduction3

1.1 Scope.....3

1.2 The Guidelines.....3

1.3 Findings3

1.4 Exclusions.....3

2 Check List4

Public Exhibition

1 INTRODUCTION

1.1 Scope

I audited the Rous County Council (RCC) Development Servicing Plans (DSPs) listed below:

- ❑ DSP for Bulk Water Supply, Revision 2, 21Aug22.
- ❑ DSP for Retail Water Supply, Revision 2, 21Aug22.

Prepared by Hydrosphere Consulting.

Appendix 2 for each DSP contains the background document.

Additional documentation that was included in the audit are calculation spreadsheets.

1.2 The Guidelines

The audit was carried out pursuant to the requirements of the *2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater*. These are referred to in this audit report as the Guidelines.

The Guidelines are administered by the Water Utilities Branch in the Department of Planning, Industry and Environment.

This report is the Auditor's Report referred to in the Guidelines.

1.3 Findings

I confirm that RCC addressed the items in the check list. RCC decided to include the cost of assets older than 30 years.

A detailed list of the items I reviewed, and my comments, are included in Table 1.

1.4 Exclusions

- ❑ Some check list items have not been completed yet, including the exhibition and the subsequent activities. These have obviously been excluded from the audit.
- ❑ I have not audited the reference documents where some of the data was sourced, such as the Total Asset Management Plan.

2 CHECK LIST

The Guidelines specify that the audit be carried out for conformance with the check list. The check list is included in appendix D of The Guidelines.

The check list items, and my comments, are included in Table 1. For simplicity, one table was prepared for both DSPs, Bulk and Retail. Where the conformance status is different, this was noted in the table. For list of references refer to the Guidelines.

I have used the following tagging for each of the check list items I reviewed.

- Conforms.
- Item addressed but varies from the Guidelines.
- N/A Not applicable or not checked.
- ? Recommend to check and confirm data.
- Excluded from the audit (typically, item that is still to be completed).

For some items, the audit includes the comment: Conformance assumed. This means that evidence to demonstrate conformance was not included, but there is no indication of non-conformance.

Table 1: Check List

Topic		Outcome Achieved	Auditor's comments
1	Requirement for Plan Preparation	<input checked="" type="checkbox"/> Establish whether your LWU is to (Section 2.1.1, page 6): (a) Prepare a DSP document, or (b) Request exemption	RCC prepared a DSPs.
2	Summary	<input checked="" type="checkbox"/> A. Includes statements relating to the legal basis & driver for the DSP document. <input checked="" type="checkbox"/> B. Includes the DSP areas covered and the levels of service (LOS) and summary of the total asset management plan (TAMP) associated with each DSP area for each service (eg. water supply or sewerage). <input checked="" type="checkbox"/> C. Includes a summary table showing the proposed developer charges and any cross-subsidy (resulting in an increase in the Typical Residential Bill (TRB)) for each service in each DSP area.	<p>The Bulk DSP notes that local councils levy additional charges. Propose to change to: <i>Additional developer charges for the retail component of the system are levied by the retail utility, local council or RCC.</i></p> <p>Retail: Recommend to enhance the comment that retail customers are required to pay the bulk developer charge too.</p>

Topic	Outcome Achieved	Auditor's comments
	<input checked="" type="checkbox"/> D. Includes a statement that the DSP document will be reviewed after a period of 4 to 8 years in accordance with Reference 1.	<p>The DSP commits to review within 5-6 years. Being a subset of the Guidelines requirement, this is not a non-conformance, but I propose to reconsider the decision not to use the period specified by the Guidelines.</p>
3	<input checked="" type="checkbox"/> A. Includes the 5 paragraphs from the Model DSP document (Appendix E, page 103 of Ref. 1). <input checked="" type="checkbox"/> B. Includes the time limit for payment in any developer charges determination or advice provided to developers in accordance with Section 2.5, page 9 of Reference 1. <input checked="" type="checkbox"/> C. Includes a statement to indicate whether the LWU is a member of the Electricity and Water Ombudsman (EWON) (page 11 of Reference 1).	<p>The last paragraph commencing with: <i>This DSP document supersedes....</i></p> <p>I recognise that it may need to be modified (as was done for the 4th paragraph), but the exclusion of this paragraph is a minor non-conformance.</p> <p>The time limit to be specified in the notice.</p>
4	<input checked="" type="checkbox"/> A. Check if service areas within the entire area of operation have been correctly identified. A service area typically comprises the area serviced by a separate water supply system, sewage treatment works, small towns/ villages or a new development area of greater than 500 lots. <input checked="" type="checkbox"/> B. Includes the basis for defining the service area boundaries. The basis/reason could be included as a note on each service area map. <input checked="" type="checkbox"/> C. Includes a map or aerial image of the service areas.	
5	<input checked="" type="checkbox"/> A. Includes the key LOS from the later of your LWU's 30-year IWCM strategy and 30-year Strategic Business Plan (SBP). <input checked="" type="checkbox"/> B. Community consultation is essential on the proposed levels of service (LOS) in order to negotiate an appropriate balance between LOS and the resulting Typical Residential Bill (section 12.4 on page 85 of Reference 3).	
6	<input checked="" type="checkbox"/> A. Includes reference to the adopted 30-year Total Asset Management Plan (TAMP) and financial plan in the later of your LWU's 30-year IWCM strategy and 30-year SBP ¹⁶ .	

Topic	Outcome Achieved	Auditor's comments
	<input checked="" type="checkbox"/> B. Includes reference to specific technical manuals, standards, etc used in the sizing, design & construction of water supply and sewerage system components. These documents provide the minimum requirement guidance for cost estimation.	
7	<p>Service Area Equivalent Tenement Projection</p> <p>For each water supply service area establish the following:</p> <input checked="" type="checkbox"/> A. The number of ETs serviced by the existing assets in 1996 and at present. <input checked="" type="checkbox"/> B. The 30-year projection of ETs. <p>For each sewerage service area establish the following:</p> <p>N/A C. The number of ETs serviced by the existing assets in 1996 and at present.</p> <p>N/A D. The 30-year projection of ETs.</p>	The data source was not audited.
8	<p>Service Area Capital Charge Calculation</p> <p>For assets used in the capital charge calculation ensure the capital charge:</p> <input checked="" type="checkbox"/> A. Includes the existing and future assets required to serve a service area (page 22 of Reference 1). Future assets required within 10 years of the commencement of the DSP document must be shown and discussed in your LWU's TAMP in order to be included in the DSP document (page 23 of Reference 1). <p>N/A B. Includes future assets beyond 10 years provided the LWU has demonstrated a nexus between the relevant future assets and the development, and the LWU has detailed plans for construction of the assets.</p> <input checked="" type="checkbox"/> C. Includes renewal cost of an asset from your TAMP that is planned within the next 10 years, only if the original asset had been excluded as it is over 30 years old. <p>N/A D. In the absence of a current TAMP, may only include future assets required within 5 years (page 23 of Reference 1). That is the provisions of Items 8A to 8C above apply only if you have a current TAMP.</p> <input type="checkbox"/> E. For assets older than 30 years at the commencement of the DSP document is only included if the assets meet the requirements in section 4.3.2 of Reference 1 and approval to inclusion of the assets has been provided by DPI Water (page 23 of Reference 1). <input checked="" type="checkbox"/> F. Is based on valuation of existing assets on the basis of Modern Engineering Equivalent Replacement Asset (MEERA) cost (page 25 of Reference 1) and assigned to the correct service area for each water supply & sewerage service.	<p>TAMP is referred to.</p> <p>Assets older than 30 years have been included. This was done intentionally as RCC considers that they should be included.</p>

Topic	Outcome Achieved	Auditor's comments
	<p> <input checked="" type="checkbox"/> G. Excludes contingencies for existing assets and includes contingencies for future assets (page 25 of Reference 1). Note that the capital cost of future assets in the TAMP should include a contingency allowance. </p> <p> <input checked="" type="checkbox"/> H. Uses the capital cost of future assets in the TAMP assigned to the correct service area for each water supply & sewerage service. </p> <p> <input checked="" type="checkbox"/> I. Is not reduced for any government grants or a similar payment towards the capital cost (page 23 of Reference 1) from the capital charge calculations. </p> <p> <input checked="" type="checkbox"/> J. Excludes reticulation assets (page 24 of Reference 1) from the capital charge calculations. </p> <p> N/A K. For out-of-sequence development, where the full capital cost of the assets has been met by the developer is excluded (page 25 of Reference 1) from the capital charge calculations'. </p> <p> For LWUs with number of connected properties less than 2,000 then: </p> <p> N/A J. Either the ROI Factor method⁴¹ or NPV Spreadsheet method⁴² could be used (Section 4.5, page 26 of Reference 1). </p> <p> N/A K. Calculate capital charge using one method only. </p> <p> Where ROI Factor method is used: </p> <p> N/A L. Calculate capital cost per ET of existing assets in each service area for each water supply & sewerage service using the MEERA cost and assessed system capacity in ETs. </p> <p> N/A M. Calculate capital cost per ET of future assets (Items 8A, 8B and 8C on page 91) using capital cost in the TAMP in current dollars, in each service area for each of water supply and sewerage. </p> <p> N/A O. Ensure the correct discount rates are applied for the pre and post 1996 assets. </p> <p> N/A P. Includes the correct years to full take-up for each system. Provide basis for the chosen year to full take-up. </p> <p> N/A Q. Calculate separately the capital charge for each water supply service area and sewerage service area and include the values for each service area as per Table 3 in the model DSP document (page 108 of Reference 1). Provide separate tables for the water supply and sewerage service. </p> <p> LWUs with number of connected properties 2,000 or more must use the NPV Spreadsheet method (Section 4.5, page 26 of Reference 1): </p>	<p>Conformance assumed.</p> <p>NPV spreadsheet method used</p>

Topic	Outcome Achieved	Auditor's comments
	<ul style="list-style-type: none"> ✓ R. Enter on the spreadsheet the MEERA capital cost for the proportion of the assets serving post-1996 growth for each water supply service area and sewerage service area and the post-1996 growth in ETs. ✓ S. Calculate the present value of ETs and the capital cost of assets for each water supply service area and sewerage service area. ✓ T. Ensure the correct discount rate is applied for the pre and post 1996 assets ✓ U. Calculate separately the capital charge for each water supply service area and sewerage service area and include the values for each service area as per Table 3 in the model DSP document (page 108 of Reference 1). Provide a separate table for each service area. 	
9	<p>Agglomeration of Service Areas into DSP Areas</p> <p>N/A A. Agglomerate service areas where the capital charge is within 30% of the highest capital charge in order to minimise the number of water supply & sewerage DSP areas (page 42 of Reference 1). Provide separate tables for the water supply and sewerage service with details as per Table 4 in the model DSP document (page 108 of Ref. 1).</p> <p>N/A B. For utilities with less than 2000 connected properties, agglomerate additional service areas as per Section 5.2, page 44 of Reference 1.</p> <p>N/A C. Calculate the weighted average capital charge and the capital charge for each water supply & sewerage DSP area (page 44 of Reference 1). Provide separate tables for the water supply and sewerage service with details as per Table 5 in the model DSP document (page 109 of Ref 1).</p>	
10	<p>Reduction Amount Calculation</p> <p>For LWUs with number of connected properties less than 2,000 then:</p> <p>N/A A. Either the Simplified NPV⁴⁴ of Annual Bills Method or NPV of Annual Bills Method⁴⁵ could be used (Section 6.2, page 50 of Reference 1).</p> <p>N/A B. Calculate the reduction amount using one method only.</p> <p>Where the NPV of Annual Bills Method⁴⁴ is used:</p> <p>N/A C. Ensure accurate values of current annual bill per ET (footnote 29 on page 47 of Reference 1) and the current OMA cost per ET are used to calculate the Reduction Amount.</p> <p>N/A D. Provide separate tables for the water supply and sewerage service with details as per Table 6 in the model DSP document (page 110 of Reference 1).</p> <p>N/A E. Check the NPV calculations are correct.</p> <p>LWUs with number of connected properties 2,000 or more must use the NPV of Annual Bills method:</p>	

Topic	Outcome Achieved	Auditor's comments
	<ul style="list-style-type: none"> ✓ F. Use accurate values of current annual bill per ET and the current OMA cost per ET to calculate the Reduction Amount (page 47 of Reference 1). ✓ G. Base the OMA cost on the most efficient and lowest cost means of providing the service (page 46 of Reference 1). ✓ H. Ensure correct value of ETs is used for utility-wide reduction amount calculation. N/A I. Provide separate tables for the water supply and sewerage service with details as per Table 6 in the model DSP document (page 110 of Reference 1). Utilities with a number of annual water supply or sewerage tariffs should calculate a reduction amount for each tariff area and report the details of analysis as per Table 6 in the model DSP document (page 110 of Reference 1). ✓ J. Check the NPV calculations are correct. ✓ K. Calculate appropriate reduction amount adjustments for differential tariff or OMA cost (page 51 of Reference 1). 	<p>Annual bill and net income are 2022 forecast. These are lower than 2021 actuals.</p> <p>Conformance assumed.</p> <p>No sewerage</p> <p>No information is provided on differential tariff and OMA costs, and no differential reduction amount is calculated.</p>
11	<p>Developer Charge Calculation</p> <ul style="list-style-type: none"> ✓ A. Subtract the reduction amount from the capital charge for each water supply & sewerage DSP area to obtain the calculated developer charge for each DSP area (page 52 of Reference 1). LWUs may not levy a higher developer charge than the calculated value for each DSP area (page 52 of Reference 1). ✓ B. Adjust the calculated developer charge for DSP areas with different OMA cost or different tariff (page 51 of Reference 1). ✓ C. Avoid a high level of cross-subsidy and disclose any cross-subsidies in the DSP document and on your LWU's website. N/A D. The utility may elect to cap the developer charges for small villages in order to maintain affordability and to avoid 'stranded' assets in such villages. N/A E. LWUs may also cap developer charges for other areas to maintain affordability, subject to adopting a commercial developer charge which recovers a significant proportion of the capital cost of the infrastructure. N/A F. Outline the rationale for cross-subsidy if proposed (sections 7.1 & 7.2, pages 52 & 53 of Reference 1). Includes details as per section 7.7 in the model DSP document. 	<p>Refer 10K above</p> <p>No cross subsidy.</p> <p>No cross subsidy</p>

Topic	Outcome Achieved	Auditor's comments	
	<p>N/A G. Where lower developer charges are proposed than the calculated charge then provide details of analysis as per Table 7 in the model DSP document (page 111 of Reference 1). Provide separate tables for the water supply and sewerage service.</p> <p>N/A H. Also provide details of analysis as per Table 8 in the model DSP document (page 111 of Reference 1) to show the impact of cross-subsidies on TRB. Provide separate tables for the water supply and sewerage service.</p> <p>N/A I. Include a graphical representation of the TRB based on the calculated developer charge and the developer charges proposed with cross-subsidy as per Figure 1 in the model DSP document (page 112 of Reference 1). Provide separate figures for the water supply and sewerage service.</p> <p>N/A J. Check if the proposed developer charges convey locational signals by maintaining relativity between the DSP areas (page 52 of Reference 1).</p>	<p>No cross subsidy</p> <p>No cross subsidy</p> <p>No cross subsidy</p>	
12	Draft DSP Document	<p>DSP Document Format Options:</p> <p><input checked="" type="checkbox"/> 1. A separate DSP document may be prepared for each DSP area, and for each of water supply and sewerage (page 46 of Reference 1). A LWU may publish its DSP documents as one or more volumes.</p> <p>N/A 2. Alternatively, a LWU may elect to prepare a single DSP document for each of water supply and sewerage, which is a concise documentation of the required information. If a single DSP document is prepared then the document must clearly identify the capital charge relating to each water supply or sewerage DSP area, the proposed developer charge and the cross-subsidy for each water supply or sewerage DSP area.</p> <p>DSP Document Contents:</p> <p><input checked="" type="checkbox"/> A. The contents of the DSP document must be in accordance with the guidelines (page 6 of Reference 1) and should use the Model DSP document (Appendix E on page 99 of Reference 1) as the framework.</p> <p><input checked="" type="checkbox"/> B. Include all the outcomes from items 2 to 11 on pages 89 to 94 of this Check List.</p> <p><input checked="" type="checkbox"/> C. The Background Information must contain all the critical data behind each DSP, including calculation models in Excel or similar format (page 7 of Reference 1). The Background Information must be made available to developers on request during and after the public exhibition of the Draft DSP document.</p>	<p>The bulk and retail are separate DSP areas</p> <p>Appendix 2</p>
13	Commissioning of Independent Auditor	<p><input checked="" type="checkbox"/> A. The draft DSP document must be reviewed by an Independent Auditor before the LWU publicly exhibits the DSP document (page 7 of Ref. 1).</p>	This review

Topic		Outcome Achieved	Auditor's comments
		<input checked="" type="checkbox"/> B. DPI Water approval is obtained prior to commissioning of proposed DSP Auditor. <input checked="" type="checkbox"/> C. An independent Auditor's Report is obtained confirming that the draft DSP documents have addressed each item in this Check List.	<p>Approved on 02Aug22</p> <p>This report.</p>
14	Exhibition of Draft DSP Document	<input type="checkbox"/> A. LWU must publicly exhibit the draft DSP document for at least 30 working days and makes it available on its website. <input type="checkbox"/> B. LWU must inform the industry bodies & developers at least 10 days before the start of the public exhibition of the DSP documents.	Outside the scope of the audit.
15	Final DSP Document	<input type="checkbox"/> A. Has addressed the submissions and feedback received on the draft DSP documents (page 8 of Reference 1). <input type="checkbox"/> B. In addition to the contents outlined in the draft, the final DSP document also includes a summary of the feedback received and how it has been addressed in the final DSP document. <input type="checkbox"/> C. Includes recommended developer charges for each DSP area for the water supply and sewerage services.	Outside the scope of the audit.
16	Adopt Final DSP Document	<input type="checkbox"/> A. LWU resolves to adopt final DSP document. <input type="checkbox"/> B. Disclose any cross-subsidies in your annual Operational Plan and on your LWU's website (pages 11 & 53 of Reference 1). <input type="checkbox"/> C. Provide the adopted final DSP document, auditor's report, background information, submissions received and your LWU's responses to the DPI Water Developer Charges Coordinator for registration (page 8 of Reference 1). <input type="checkbox"/> D. DSP document is registered by DPI Water.	Outside the scope of the audit.

Purified Recycled Water Pilot Plant

Responsible Officer: Group Manager Planning and Delivery (Andrew Logan)

Recommendation

That Council:

- (a) Take no further action to progress a pilot purified recycled water scheme at the Perradenya Estate as part of the Future Water Project 2060.
- (b) Continue to investigate the possibility of implementing a Purified Recycled Water pilot at the most advantageous location to meet strategic objectives of the Future Water Project 2060.
- (c) Delay any significant investigations into a Purified Recycled Water pilot until such time as the *Purified Recycled Water for Drinking Investigations – Option Assessment of Indirect and Direct Potable Reuse Schemes* has been completed.
- (d) Consider the comparative viability of Purified Recycled Water as a potential Stage 3 option when assessing whether to proceed with additional pilot investigations.

Background

The Future Water Project 2060 included consideration of a Purified Recycled Water Pilot Plant. Resolution [61/20] relating to the Future Water Project includes the following item 6. iii)a):

“6. Undertake the following actions as described in Section 4 of this report:

i)...

ii)...

iii) Innovative action

- a) Progress Perradenya Estate pilot purified recycled water scheme and work with relevant stakeholders to design a long-term public education campaign to increase awareness and acceptance of indirect potable reuse (IPR) and direct potable reuse (DPR).”*

Council staff have progressed further investigations into the pilot purified recycled water scheme at the Perradenya Estate (hereafter referred to as the Perradenya Scheme) and determined that the scheme should not be progressed further at the Perradenya site.

Future Water Project – Strategic Objectives

The primary purpose of Purified Recycled Water (PRW) pilot plant is to provide a pathway to progress understanding and support strategic decision making in relation to PRW as a potential Stage 3 water source option. A pilot plant is also likely to be a pre-requisite for regulatory approval and implementation of a full-scale scheme.

The Perradenya Scheme is not optimised to meet the strategic needs of the Future Water Project 2060. It does not usefully reflect the potential full-scale Stage 3 implementation of PRW and has several limitations as described below.

1. It will not progress technical and engineering knowledge gaps required to progress full-scale scheme development because:
 - The proposed technology for the Perradenya Scheme is different from the likely technology for full-scale Stage 3 implementation.
 - The difference in technology severely limits opportunities to optimise and gain confidence in the engineering design and develop the necessary operational experience with potential technology.

2. It will not fully address specific health risks and other regulatory issues relevant to Stage 3 implementation because:
 - The limited source of treated wastewater and different catchment risks mean that risk assessments may not be representative of full-scale schemes.
 - There is no opportunity to clarify the composition of wastewaters, chemical and microbial hazards etc of any of the full-scale scheme options, resulting in the duplication of monitoring full-scale schemes in the future.
3. The current timing of the Perradenya Scheme is not optimised in relation to strategic considerations because:
 - There is ongoing regulatory development occurring in NSW, resulting in considerable regulatory uncertainty in the short to medium term.
 - Implementation of potential Stage 3 options is not currently envisaged to occur prior to 2040, allowing scope for the pilot plant to be delayed without impacting future implementation.
 - Council does not currently have a strong understanding of how PRW compares to other potential Stage 3 options. Council is about to commence investigations exploring the economic feasibility of PRW which will assist in evaluating Stage 3 options.

Lack of Regulatory Support to Explore “Direct Augmentation”

A proposed concept for a PRW pilot plant at Perradenya was submitted to key state government stakeholders including the then Water Minister in late 2020. This proposal was unsuccessful in gaining regulator support to explore the proposed “Direct Augmentation” option at Perradenya. Feedback noted that additional investigations would be required ahead of investment in the pilot scheme. The Minister also noted that there was no funding availability for the concept. Following additional consultation by Rous staff with regulators (NSW Health and DPE Water) and internal research, it was determined that further pursuit of the Perradenya Scheme was unlikely to be successful and would not be in the best interest of Council.

The proposed concept is not well aligned with the current priorities for regulatory development in NSW. The approval of a “Direct Augmentation” scheme would currently require an extension of the existing national framework (Australian Guidelines for Water Recycling – Phase 2a – Augmentation of Drinking Water Supplies). The extension of a national framework is outside of NSW regulators’ sphere of influence. Feedback from various stakeholders in the Water Industry is that progression of “Direct Augmentation” should be targeted at the National level and would require significant co-ordinated effort to be successful.

It should be noted that NSW regulators are currently working with other stakeholders to progress the regulatory environment for PRW in NSW, including a PRW pilot facility under construction by Sydney Water at Quaker’s Hill. This pilot plant is designed to explore community engagement and regulatory issues associated with the implementation of “Indirect Augmentation”.

Limitations of Perradenya Location for a Pilot Plant

The Perradenya location has significant drawbacks which affect the cost and suitability for the implementation of a PRW pilot plant. In order to build a PRW pilot plant, a source of treated wastewater is required (i.e. a Purified Recycled Water plant cannot use raw sewage as its source water). An immediate issue at Perradenya is the lack of a treated wastewater source at the site, requiring either a wastewater treatment infrastructure on-site or pipeline infrastructure to deliver treated wastewater to the site. The costs associated with each of these options are significant and do not add value to the pilot investigations. Further complicating this matter is that Rous is not a wastewater authority and does not operate any wastewater infrastructure. It is more practical and cost-effective to locate the pilot plant near to an existing source of treated wastewater.

The Perradenya location does not align well with Rous's community engagement objectives. It is not central nor a prominent area within the region, and does not represent a suitable location for full scale implementation as a potential Stage 3 option. There may also be issues with large vehicle access to the site, making construction and operation as a pilot plant more difficult, and limiting demonstration and engagement opportunities.

Historical Development Consent Conditions of the Perradenya Estate

A water reclamation facility at Perradenya is subject to historical development conditions. It was the previous view of Council that there was an efficiency gain by linking the Future Water Project and the Perradenya development. However, no such benefit has materialised, and the historical development conditions present the following challenges:

- A permanent water reclamation facility at Perradenya is not likely to be a good value proposition, and therefore is not likely to receive the required regulatory approvals. A preliminary economic analysis of the Perradenya Scheme estimated a water production cost of over \$20/kL, as opposed the current notional bulk supply cost to constituent councils of \$2.16/kL.
- There is likely to be substantial regulatory difficulty associated with construction and operation of wastewater treatment components at the proposed site due to odour, sludge disposal and other environmental concerns. It should be noted that there has been significant change in the regulatory environment since the concept was first considered by Lismore City Council and the original developers of the Perradenya Estate, Corpol Properties.
- The progression of the Perradenya Scheme may risk complicating the resolution of the development conditions at the Perradenya site.

Purified Recycled Water Investigations Underway

Two separate investigations are currently underway in relation to PRW, as described below.

1. Purified Recycled Water for Drinking Investigations – Option Assessment of Indirect and Direct Potable Reuse Schemes.

This is a multi-year, consultant-led investigation seeking to evaluate the concept level feasibility of implementing PRW as a potential Stage 3 option (2040-2060) of the Future Water Project. This study will increase Rous's understanding of PRW as a full-scale Stage 3 implementation option and inform future decisions about how best to undertake a pilot project. The expected completion date is Q1 2024.

2. Preliminary site selection process and regulatory consultation.

This is a short, staff-led investigation revisiting the objectives for the pilot and comparing these to various pilot implementation options. The study will consider various types of pilots (treatment capacities and configurations) and compare to other community engagement options. A preliminary site selection process will be performed, and regulator engagement undertaken. It is expected to be completed by June 2023.

Governance

- **Integrated Planning and Reporting**

The proposed changes for the pilot plant approach are consistent with the current actions in the Operational Plan (2022-2023) to:

- Undertake further investigations of Stage 3 source options to support future decision making
- Identify a preferred location and concept for a purified recycled water plant.

The outcomes of the *Purified Recycled Water for Drinking Investigations* will inform Council's future direction in relation to Purified Recycled Water and this will be reflected in future IP&R framework documents.

- **Finance**

The budget for the PRW pilot plant for 22/23 FY is \$60,000 and is appropriate to facilitate a preliminary site selection process and regulatory consultation actions as described previously. The Long-Term Financial Plan currently has \$5,673,000 budgeted with substantial expenditure commencing in the 23/24 FY to plan, design and construct a pilot plant. It is proposed to reduce the 23/24 budget and adjust the Long-Term Financial Plan to reflect the recommendation to delay any decision regarding the pilot plant until the completion of more detailed investigations into PRW in 2024.

- **Legal**

Council is not under any legal obligation to implement a PRW Plant at Perradenya, as part of the Future Water Project. The legal requirement for a water reclamation scheme at Perradenya Estate will be addressed in a future report to Council.

Consultation

Council staff have undertaken a number of formal and informal consultation activities in relation to the Perradenya Scheme. This has included:

- Community consultation with Perradenya residents at various times throughout Rous's ownership of the development.
- "Let's drink to the future" proposal to NSW Minister for Water, including response.
- Information-sharing with colleagues from Sydney Water in relation to pilot plant requirements.
- Consultation with NSW DPE Water and NSW Health staff regarding regulatory requirements.
- Participation in Water Services Association Purified Recycled Water Implementation Group (provides understanding of other PRW projects around Australia).

The information and feedback through this consultation has been reflected in this report.

Conclusion

Following further progress and investigation of the proposal, the Perradenya Estate is not considered a suitable location for implementation of a PRW pilot plant for the Future Water Project. It is recommended that the Future Water Project consider alternative locations, and any historical consent conditions for the Perradenya Estate be dealt separately based on their own merits.

Additionally, it is recommended that any significant investigations or decisions relating to the Purified Recycled Water pilot plant be delayed until the outcomes of the *Purified Recycled Water for Drinking Investigations* are known. This will allow the investigations of the Purified Recycled Water pilot plant to be undertaken with a better understanding of potential full-scale schemes, and their relative viability to other potential Stage 3 source options.

Future Water Project Stage 1 - Alstonville Groundwater Scheme Land Matters

Responsible Officer: Group Manager Planning and Delivery (Andrew Logan)

Recommendation

1. That based on the contents of this report, Council authorises the General Manager to
 - a) Finalise negotiations for the purchase of The Russellton Property identified in the report at the agreed price, and
 - b) Execute all relevant documents required for the purchase, including any heads of agreement, planning documents and the Contract for Sale.
2. That upon settlement of the purchase, the land be classified as Operational Land for the purposes of Part 2 Division 1 of the *Local Government Act 1993*.

Background

At its meeting of 21 July 2021, Council resolved the following;

RESOLVED [39/21] (Ekins/Cameron) that Council:

1. As part of its water security risk mitigation approach under the Future Water Project 2060, confirms that its:

RESOLVED [39/21] (Ekins/Cameron) that Council:

1. As part of its water security risk mitigation approach under the Future Water Project 2060, confirms that its:

(a) **Preferred option** is to acquire the Marom Creek Water Treatment Plant, including ancillary infrastructure and assets, and the Ellis Road and Lindendale groundwater access licenses ('The Property'), owned by Ballina Shire Council.

(b) **Second preferred option** is to develop a groundwater treatment plant for Rous' bores located at Alstonville.

(c) **Third preferred option** is to develop a groundwater treatment plant for Rous' bores located at Woodburn.

2. Direct the General Manager to write to the General Manager of Ballina Shire Council requesting that Ballina Shire Council not progress any of the planned upgrade works to the Marom Creek Water Treatment Plant, until Ballina Shire Council has resolved its position in relation to Rous' **Preferred option** (1(a)).

3. In the event that The Property acquisition does not proceed, confirm that the General Manager is authorised to progress the **Second preferred option**.

4. Note that the preferred aquifer to source future groundwater supplies for the **Preferred and Second preferred** options is the Clarence Moreton Basin.

5. Authorise:

(a) The General Manager to progress the **Preferred and Second options** concurrently and negotiate the purchase of The Property as described in the body of the report.

(b) The Chair and General Manager to sign necessary documentation under seal to affect the purchase and transfer of The Property to Rous County Council.

6. With reference to the 16 December 2020 resolution [61/20] "Note the progress of discussions with Ballina Shire Council regarding the potential transfer or lease of Marom Creek WTP and that a further report will be provided", note that this report satisfies the requirement to provide a further update on the progress of discussions with Ballina Shire Council

Ballina Shire Council, at its meeting of 23 September 2021, resolved not to transfer any assets associated with its Marom Creek Weir and Water Treatment Plant to Rous County Council as a part of the Future Water Project 2060 (FWP). As the Marom Creek was the “preferred option” under the 21 July 2021 Council report, further studies have been undertaken to investigate other options to secure the region’s water supply in the short term. This has occurred while further discussions and studies are undertaken regarding the Marom Creek Site and consideration given to whether a compulsory acquisition process is needed to secure the Marom Creek site. This pathway is not a preferred solution given the political climate and the potential to damage relationships with one of our constituent councils.

Given the resolution of Ballina Shire Council and the earlier resolution of Rous County Council, a site investigation assessment was completed in October 2022 to short-list suitable sites associated with the second preferred option (as outlined in the July 2021 report). The outcome of that process identified that a parcel of industrial land in the precinct of the Russellton Industrial estate, described as Lot 21 in DP 1252162 was determined to be a preferred site for a future Groundwater Treatment Plant (GWTP). During the initial stages of consultation with Ballina Shire Council staff, Rous staff became aware of Ballina Shire Council’s intentions to subdivide this parcel of industrial land. A copy of the development plan is included as Attachment 1 to this report.

Based on discussions between respective Council’s staff, proposed Lots 17, 18 and 28 in the proposed subdivision of Lot 21 DP 1252162 (hereby known as ‘The Russellton Property’) were identified as being a preferred location for the future GWTP and be suitable to meet the needs of its supporting infrastructure.

Rous engaged a suitably qualified valuer to provide an independent market assessment of the value of The Russellton Property. The valuation process identified a range for the expected market value, including consideration of the development being realised. At a meeting with Ballina Shire Council staff, a negotiated price within the range of the external market assessment was agreed in-principle. Rous staff consider the negotiated price represents a fair and reasonable market value of The Russellton Property and is within existing FWP2060 budgets.

As site investigations are still continuing in relation to water security risk mitigation, it is important to note that the acquisition of the land at Alstonville from Ballina Shire Council is not intended to satisfy the objectives of Resolution 39/21. Rous staff are still undertaking investigations and if possible, may still pursue an acquisition of the Marom Creek Water Treatment Plant if Ballina Shire Council has a change in their current position. The basis for keeping the First and Second Preferred Options under resolution 39/21 active, is that while The Russellton Property meets most of the objectives for water security risk mitigation, the Marom Creek site still provides additional benefits of existing surface water licences and, should that site be able to be obtained, would give Rous additional options for water access and water security.

Governance

- **Finance**

There are sufficient funds available in the 2022/23 financial year capital works budget within the FWP program area for the negotiated purchase price. However, given the land is yet to be developed and subdivided, it is likely that these funds will not be expended until the 2023/24 financial year. As more specific details become available regarding the timing of development, necessary budget amendments will be made through Quarterly Budget Reviews or end of financial year carry-over processes to ensure budget is available at the time of purchase.

- **Legal**

The acquisition of The Russellton Property is provided for by section 186 of the *Local Government Act 1993* as the property will be used to exercise Council’s functions once the property has been developed.

Consultation

At Ballina Shire Council's Commercial Services Committee of 15 November 2022, that Committee resolved to both develop the remaining parcel of industrial land and authorise the General Manager of Ballina Shire Council to finalise the sale of The Property for the negotiated price.

The minutes of this advisory Committee meeting were formally endorsed by Ballina Shire Council at its ordinary meeting of 24 November 2022. There are no further consultation requirements to complete the sales process.

Conclusion

At its meeting of July 2021, Council formally endorsed its draft revised Integrated Water Cycle Management Strategy known as the Future Water Project 2060. The first preferred short-term option was to maximise the benefit of the existing Marom Creek weir and WTP owned by Ballina Shire Council and better utilise the existing groundwater resources on the Alstonville plateau, whilst constructing new bores into the Clarence Moreton Basin Groundwater source. With Council being unable to secure access to the existing Marom Creek weir and WTP, Council progressed with the development of its second preferred option, being the development of a groundwater scheme in Alstonville and the construction of a GWTP.

Council has completed a site investigation assessment to determine the most prospective location for the future GWTP. The outcome of this process identified a parcel of land associated with the future development of the Russellton Industrial estate, which is owned by Ballina Shire Council.

Attachment

1. Russellton Industrial Estate Ballina Shire Council Development 2008_803 Lodgement Plan Set.PDF



Strategic options and management of risk: flood mitigation

Responsible Officer: Group Manager People and Performance (Helen McNeil)

Recommendation

That Council:

1. Endorse the following actions to be taken concurrently:
 - (a) Progress action 1.2.2 of the Delivery Program, being a strategic review of flood mitigation function, incorporating data arising from 2022 flood events, and report back with recommendations in relation to Rous's future role in the region; and
 - (b) Authorise the General Manager to negotiate an interim solution to effectively manage risk associated with Rous's function and operation in urban flood mitigation with respect to the Lismore Levee Scheme (to have effect pending finalisation of (1a)).
2. Reaffirm action 1.2.2 of the Delivery Program and endorse writing to Ballina Shire Council, Lismore City Council and Richmond Valley Council to advise of the strategic review of Flood Mitigation and that it is expected to be completed by June 2024.

Background

In 2016 Rous County Council, Richmond River County Council and Far North Coast County Council combined to form one County Council. This was the result of a voluntary decision at the time by each County, which was endorsed by their respective constituent councils. All functions that were undertaken by, as well as the assets, rights and liabilities of, the former Richmond River County Council and Far North Coast County Council, were transferred to Rous County Council.

Rous's activities in flood mitigation remain aligned with those functions and operations transferred to it in 2016. A strategic review of the flood mitigation function is due to be completed by June 2024. In the meantime, it is recommended that Rous engage with Lismore City Council with the aim of determining an agreed approach to resolving specific known risks associated with the Lismore Levee Scheme and urban flood mitigation generally.

Why action is required

- (i) Flood mitigation operations vary across the Rous footprint (Attachment):
 - urban flood mitigation performed only for the Lismore Levee Scheme
 - rural flood mitigation performed across Ballina Shire, Lismore City and Richmond Valley local government areas
 - no flood mitigation operations provided in Byron Shire local government area.
- (ii) Lismore Levee Scheme not operated or controlled by Rous and no formal delegation of Rous's powers and duties to Lismore City Council.
- (iii) No formal delegation of Rous's powers and duties to Ballina Shire and Richmond Valley Councils.
- (iv) Rous is not a consent authority in relation to land development and approval processes.
- (v) Grant funding policy means that grant applications are no longer required to be made by the relevant flood mitigation authority on behalf of constituent councils.
- (vi) Absence of immediate options to generate income to adequately fund flood mitigation.
- (vii) Desire to reduce and eliminate red tape.
- (viii) Community confusion about roles and responsibilities (Rous v constituent councils v State Government agencies).

What action is proposed

Undertake two actions concurrently:

1. Resolve the strategic issue of Rous's future in flood mitigation by:

Action 1: Progress the planned strategic review of Flood Mitigation as per Delivery program

and

2. Take immediate steps to achieve an interim solution for urban flood mitigation (Lismore Levee Scheme), pending completion of (1) by:

Action 2: Engage with Lismore City Council to agree interim arrangements for the Lismore Levee Scheme

The detail

Action 1: Progress the planned strategic review of Flood Mitigation as per Delivery program

This activity will be led and coordinated by the Planning and Delivery Group. A scope of work is expected to be completed and a consultant appointed in the first half of 2023.

Integrated Planning and Reporting Framework				
Delivery objective				
1. Sustainable delivery				
1.2 Responding and adapting to climate change				
Ref.	Delivery objectives	Activities to get there	What is being measured	Target
1.2.2	We are prepared and able to respond to climate change impacts.	Deliver strategic review of Flood Mitigation function, incorporating data arising from 2022 flood events, and confirm Rous's role in the region.	Strategic review finalised and endorsed	By June 2024
			Rous's role confirmed.	By June 2024

Some background

Richmond River County Council was established as the exclusive flood mitigation authority for the Ballina, Lismore and Richmond Valley local government areas. Historically this meant any state funding for flood infrastructure had to be through the County Council. Over time, the practical purpose of what the flood mitigation authority was responsible for has been lost, as has the exclusivity of local government funding (i.e. the constituent councils can, and have, received flood mitigation funding directly).

In 2016, on the dissolution of Richmond River County Council, the functions and operations of that council within the local government areas of Ballina, Lismore and Richmond Valley transferred to Rous. No review of what flood mitigation activities Rous would become accountable for was considered at this time, with Rous assuming Richmond River County Council's (poorly defined) role without amendment. It is critically important for a strategic review of Rous's flood mitigation role in the region to identify the most beneficial model for service delivery to ensure effective and optimal service provision for the region. If this is Rous, then the review must deliver recommendations around what the objectives and scope of flood mitigation should be, supported by appropriate governance and operational changes that will ensure it will be able to sustainably deliver the defined objectives.

Action 2: Engage with Lismore City Council to agree interim arrangements for the Lismore Levee Scheme

This activity will be led initially by the General Manager, Phillip Rudd. While Action 1 is underway, it is necessary to ensure that interim arrangements for the Lismore Levee Scheme are in place. This includes engaging with Lismore City Council to confirm a position on the treatment of matters such as asset renewal and strategic planning. This is necessary to minimise existing and future risk and will require, among other things, consideration of:

- (i) Charging methodology and basis
- (ii) Adherence to Australian accounting standards
- (iii) Asset renewal and strategic planning
- (iv) The existing Memorandum of Understanding (MoU) between the former Richmond River County Council and Lismore City Council
- (v) Service Level Agreement
- (vi) Formal conferral and acceptance of delegation
- (vii) Disaster funding arrangements.

The target is to have an agreed position determined no later than 31 March 2023 to inform budget processes. A further report will be provided to Council's April 2023 meeting.

Some background

The construction of the Lismore Levee Scheme was approved at or around 1999. It was a government funded scheme designed to protect the central business district of Lismore against floods of a 1:10 year occurrence. The former Richmond River County Council was a stakeholder in the project at the time, largely due to a requirement by the NSW Government that grant funding be applied for and remitted only via the relevant local flood mitigation authority. That requirement has since changed whereby the involvement of the local flood mitigation authority is no longer mandatory.

Information regarding background to the Lismore Levee Scheme was provided to Council in a workshop on 14 September 2022. This included details of the MoU between the former Richmond River County Council and Lismore City Council. The MoU was signed on 30 June 2016, shortly prior to Richmond River County Council being dissolved and its functions and operations being taken up by Rous. It governs matters relating to the maintenance and operation of the Lismore Levee.

The MoU has met a need at an operational level however it was not designed to, nor does it address, important matters such as arrangements for the long term financial and asset management of the Scheme. While Rous and Lismore City Council may each hold views on this, a mutually agreed position has not been confirmed. Action 2 is designed to address the known risk, pending a long-term outcome from Action 1.

Finance

The accounting and budgeting for Rous's flood mitigation business creates significant uncertainty in the businesses long-term financial plan. There is also a question of whether the current accounting treatment meets Australian accounting standards.

It should be noted that Rous is currently undertaking a review of revenue and fee methodology across the business (including reviewing Rous's bulk water charging methodology for 2023/24 and beyond). Similarly, it is proposed that weed biosecurity charging will be reviewed in conjunction with the next Integrated Planning and Reporting Framework cycle which also coincides with the next NSW Weeds Action Program period (2025/26). Therefore, it is prudent that the charging methodology for the flood mitigation business should also be considered.

Legal

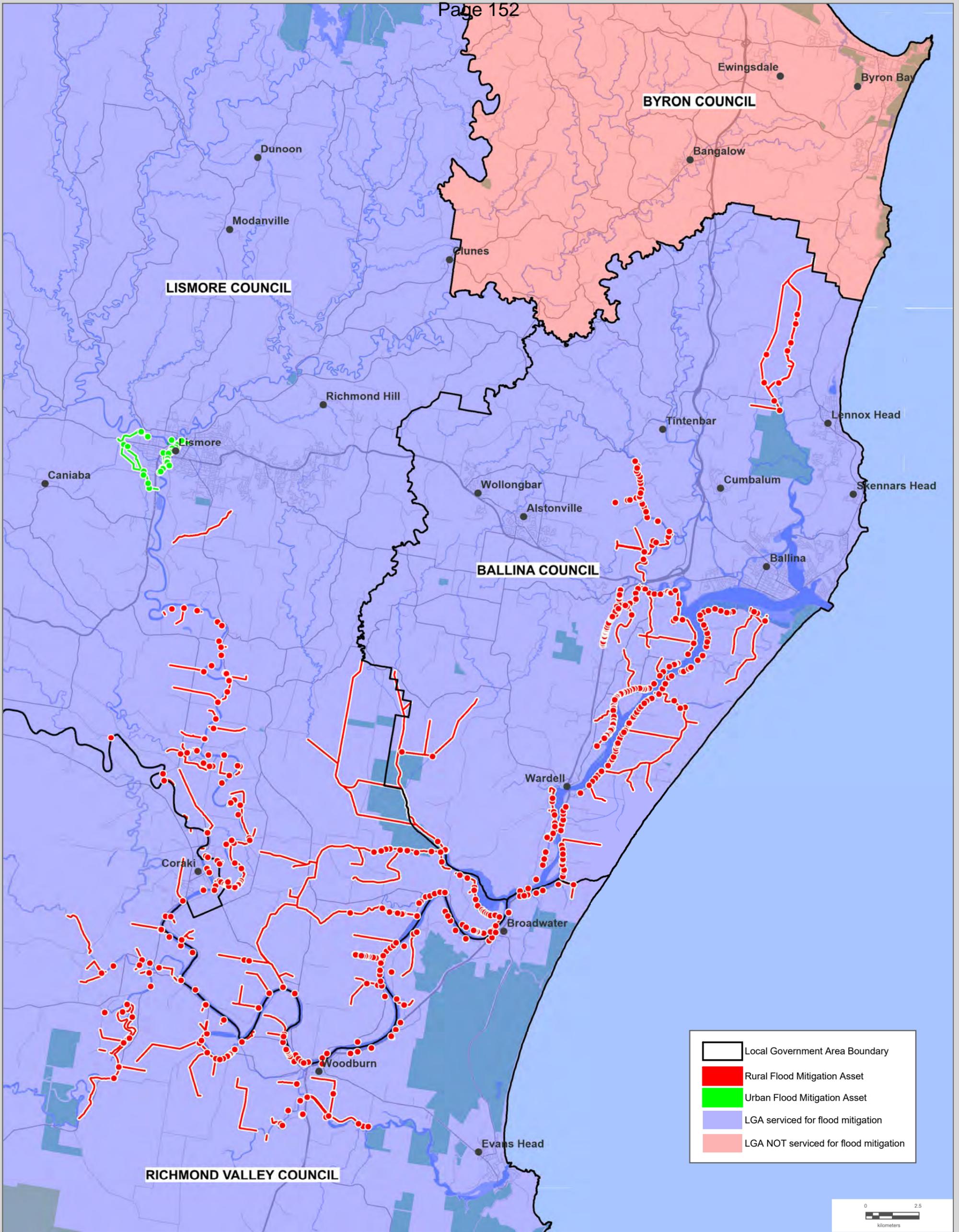
At this stage it is premature to comment on the implications from a legal perspective of Action 1 and Action 2.

Consultation

The proposed approach outlined in this report (Action 1 and Action 2) was prepared in consultation with relevant Rous staff and management. It is designed to address short and long term risk by offering an interim solution pending an outcome on the long term strategic action.

Action 1 is embodied in the Integrated Planning and Reporting Framework. The Business Activity Strategic Plan, one part of the Framework, was developed with input from constituent council councillors and management as well as Rous councillors, management and staff. Following that, the draft Integrated Planning and Reporting Framework was placed on public exhibition and submissions from the public invited. No submissions were received that resulted in changes to this aspect of Rous's delivery priorities or objectives.

Attachment: Rous Flood Mitigation service area – urban and rural



Flood Mitigation Service Areas

THE INFORMATION ON THIS MAP MAY NOT BE ACCURATE.

Disclaimer: The material contained on this map is made available on the understanding that Rous County Council is not hereby engaged in rendering professional advice. While all reasonable care has been taken to ensure the information contained on this map is up to date and accurate, no warranty is given that the information contained on this map is free from error or omission. Any reliance placed on such information shall be at the sole risk of the user. Please verify the accuracy of the information prior to using it.



Printed Date: 07/12/2022
Prepared By: Kim Edwards
Projection: MGA Zone 56

**ROUS COUNTY COUNCIL
ADMINISTRATION CENTRE**
Level 4, 218/232 Molesworth Street
LISMORE NSW 2480
Ph: (02) 6623 3800 Fax: (02) 6622 1181
Email: council@rous.nsw.gov.au
Web: www.rous.nsw.gov.au



Policy: Customer feedback, complaints and unreasonable conduct

Responsible Officer: Group Manager People and Performance (Helen McNeil)

Recommendation

That Council:

1. Revoke the policy titled 'Feedback and Complaints Handling' dated 19 December 2018 attached to this report, and any policy revived as a result of that revocation; and
2. Adopt the draft policy titled 'Customer feedback, complaints and unreasonable conduct' attached to this report.

Background

Council's 'Feedback and Complaints Handling' policy was adopted on 19 December 2018 and is due for review. The review process has been completed and was informed by various materials published by the NSW Ombudsman including a manual on [managing unreasonable conduct by a complainant \(2021\)](#). The result of the review is a revised policy, which, if adopted will establish a set of commitments governing Rous's approach to handling and managing customer feedback, complaints and unreasonable conduct.

The proposed six (6) commitments are endorsed by the NSW Ombudsman and align with Rous's Values of Safety, Teamwork, Accountability and Respect:

1. Respectful treatment
2. Information and accessibility
3. Good communication
4. Taking ownership
5. Timeliness
6. Transparency.

If the draft policy is approved, associated internal procedures will be revised and updated where appropriate. This will include ensuring that the principles of procedural fairness underpin processes. In addition, staff training (general and specialised, as required) will be delivered.

Governance

Finance

Not applicable.

Legal

It is not a compliance requirement to have a complaints handling policy. However, having such a policy in place is consistent with contemporary business practice and is beneficial in promoting accountability, transparency and confidence in the public sector.

Some types of complaints, such as public interest disclosures, are required to be managed in accordance with specific legislative requirements. Making of the proposed policy will not change that.

Consultation

The revised policy has been developed in consultation with the Customer and Communications Manager and the Governance and Risk Manager.

Attachments:

1. Proposed 'Customer feedback, complaints and unreasonable conduct' policy, with track changes.
2. Current 'Feedback and Complaints Handling' policy, for revocation.

Policy



Customer feedback, complaints and unreasonable conduct

Approved by Council: / /20

To outline our position on the handling and management of customer feedback, complaints and unreasonable conduct.

Safety

Teamwork

Accountability

Respect

Background

Our approach to the handling and management of feedback, complaints and unreasonable conduct is based on a range of core commitments that we make to you. These commitments govern our approach to effective complaint handling and are modelled on guidance material from the NSW Ombudsman. When you deal with us you should expect that these commitments will apply and your experience is consistent across all areas of our business.

Our commitment to You,

- 1. Respectful treatment: we are responsive and treat you with courtesy and respect.
- 2. Information and accessibility: we make it easy for you to give us feedback.
- 3. Good communication: we keep you informed about the status of your feedback or complaint.
- 4. Taking ownership: we are trained and skilled to manage complaints.
- 5. Timeliness: we will do our best to deal with complaints as soon as possible and will let you know a timeframe for finalise a complaint.
- 6. Transparency: we will record and analyse information on our complaint handling processes to help improve our services.

Occasionally, people's frustration may result in escalated behaviour such as aggressive and abusive conduct toward our people and business. We regard this as unreasonable conduct.

Where unreasonable conduct, because of its nature or frequency, raises health, safety, resource or equity issues for the people involved in the complaint process, we will manage the conduct according to Objectives (i-iii):

- i. Objective: Protect the health and safety of staff who interact with people whose conduct is unreasonable.

We will prioritise the safety of our people – always.

- ii. Objective: Ensure equity and fairness for all complainants – regardless of their conduct, ethnic identity, national origin, religion, linguistic background, sex, gender expression, sexual orientation, physical ability or other cultural or personal factors.

Deleted: F...eedback, and ...omplaintss handling

Deleted: 19...1212...2018

Deleted: efficiently and fairly ...he handling and management of customer feedback, and ...complaints and from customers and members of the public about the level and quality of Council service

Deleted: Council recognises the importance of an effective feedback and complaints handling system...s based on a range of core commitments that we make to you. These commitments govern our approach to effective complaint handling and are modelled on guidance material from the NSW Ombudsman. When you deal with us you should expect that these commitments will apply and your experience is consistent across all areas of our business. , acknowledging it provides an opportunity for Council to review its performance and provide the highest possible quality of service to customers and the community.

Deleted: Policy statement¶

Formatted: Line spacing: single

Deleted: Council acknowledges the right of all persons to provide feedback and lodge complaints about the level and quality of Council service. Feedback and complaints must be dealt with:¶

¶ in a timely manner; ¶ in accordance with Council Procedure; and ¶ with the principles of procedural fairness in mind. ¶

Formatted: Font: Italic

Formatted

Formatted

Formatted

Formatted

Formatted

Formatted

Formatted: Normal (Web), Pattern: Clear (White)

Formatted: Font: Bold

Formatted: Indent: Left: 1.27 cm, Numbered + Level: 1 + Numbering Style: i, ii, iii, ... + Start at: 1 + Alignment: Left + Aligned at: 2.02 cm + Indent at: 3.29 cm

Formatted: Indent: Left: 0.52 cm

Formatted: Normal, Indent: Left: 0.52 cm, First line: 0.75 cm, No bullets or numbering

Formatted: Indent: Left: 1.79 cm, No bullets or numbering

Formatted: Font: Bold

Formatted: Indent: Left: 1.27 cm, Numbered + Level: 1 + Numbering Style: i, ii, iii, ... + Start at: 1 + Alignment: Left + Aligned at: 2.02 cm + Indent at: 3.29 cm

Deleted: F...eedback, and C...omplaints Handling

Downloading and printing this document will produce an uncontrolled copy, which may not be current

We will make sure that all current and potential complaints are dealt with equitably and fairly – regardless of ethnic identity, national origin, religion, linguistic background, sex, gender expression, sexual orientation, physical ability or other cultural or personal factors – and resources are distributed based on the merits of a complaint, rather than a complainant’s demands or conduct.

iii. Objective: Effectively manage resource allocation and improve efficiency in handling complaints.

We will improve overall effectiveness and efficiency by allocating sufficient time and resources to dealing with unreasonable conduct which, if left unmanaged, can divert and place strain on limited resources.

This policy is in addition to, and does not seek to derogate from the operation of, any relevant law or Council policy. This includes:

1. a protected disclosure under the *Public Interest Disclosures Act 1994*;
2. an application for an internal review of alleged breaches of privacy under the *Privacy and Personal Information Protection Act 1998*;
3. an application for internal review of refusals of access to or amendment of documents under the *Government Information and Public Access Act 2009*;
4. a complaint under the *Code of Conduct*.

Contact officer

Governance and Risk Manager,

Related documents

Policies

Code of Conduct and Procedures,

Procedures

Customer feedback, complaints handling and unreasonable conduct,

Legislation

- Civil Liability Act 2002*
- Government Information and Public Access Act 2009*
- Local Government Act 1993*
- Privacy and Personal Information Protection Act 1998*
- Public Interest Disclosures Act 2022,*

Other

NSW Ombudsman – guidance for agencies – effective complaint handling,

Office use only	File no.: 172	Next review date: [2 years]	Resolution no.
Version	Purpose and description	Date adopted by Council	
1.0		11/02/2009	

Formatted: Indent: Left: 0.52 cm

Formatted: Indent: Left: 1.25 cm

Formatted: Indent: Left: 0.52 cm

Formatted: Font: Bold

Formatted: Indent: Left: 1.25 cm, Hanging: 1.25 cm, Numbered + Level: 1 + Numbering Style: i, ii, iii, ... + Start at: 1 + Alignment: Left + Aligned at: 2.02 cm + Indent at: 3.29 cm

Formatted: Indent: Left: 0.52 cm

Formatted: Indent: Left: 1.25 cm

Deleted: ¶
Council is committed to providing an accessible feedback system for all persons and will accept feedback or complaints via any reasonable means appropriate to the individual providing the feedback or complaint. Council will make any reasonable adjustments where requested or appropriate, to ensure all members of the community are able to provide feedback or make a complaint to Council.¶

¶
Note:

Moved (insertion) [1]

Deleted: including but not limited to the making of

Deleted: .

Formatted: Font: Not Italic

Moved up [1]: This policy is in addition to, and does not seek to derogate from the operation of, any law or Council policy including but not limited to the making of:¶
¶
a protected disclosure under the *Public Interest Disclosures Act 1994*.¶
an application for an internal review of alleged breaches of privacy under the *Privacy and Personal Information Protection Act 1998*.¶
an application for internal review of refusals of access to or amendment of documents under the *Government Information and Public Access Act 2009*.¶

Deleted: ¶

Deleted: General Manager; Group Manager People and Performance; Group Manager Corporate and Commercial;

Deleted: Officer

Deleted: N/A

Deleted: ¶

Deleted: F

Deleted: and

Deleted: C

Deleted: H

Deleted: .

Deleted: 1994

Deleted: N/A

Deleted: ¶
¶
¶
¶
¶
¶

Deleted: F

Deleted: and C

Deleted: Handling

Downloading and printing this document will produce an uncontrolled copy, which may not be current.

2.0	To efficiently and fairly manage feedback and complaints from customers and members of the public about the level and quality of Council service.	19/12/2018	124/18
3.0	Update policy to reflect information available from the NSW Ombudsman and changes to reflect position title changes.		

Downloading and printing this document will produce an uncontrolled copy, which may not be current

Deleted: F

Deleted: and C

Deleted: Handling

Policy

Feedback and complaints handling

Approved by Council: 19/12/2018

To efficiently and fairly manage feedback and complaints from customers and members of the public about the level and quality of Council service.

Safety

Teamwork

Accountability

Respect

Background

Council recognises the importance of an effective feedback and complaints handling system, acknowledging it provides an opportunity for Council to review its performance and provide the highest possible quality of service to customers and the community.

Policy statement

Council acknowledges the right of all persons to provide feedback and lodge complaints about the level and quality of Council service. Feedback and complaints must be dealt with:

- in a timely manner;
- in accordance with Council Procedure; and
- with the principles of procedural fairness in mind.

Council is committed to providing an accessible feedback system for all persons and will accept feedback or complaints via any reasonable means appropriate to the individual providing the feedback or complaint. Council will make any reasonable adjustments where requested or appropriate, to ensure all members of the community are able to provide feedback or make a complaint to Council.

Note:

This policy is in addition to, and does not seek to derogate from the operation of, any law or Council policy including but not limited to the making of:

1. a protected disclosure under the *Public Interest Disclosures Act 1994*;
2. an application for an internal review of alleged breaches of privacy under the *Privacy and Personal Information Protection Act 1998*;
3. an application for internal review of refusals of access to or amendment of documents under the *Government Information and Public Access Act 2009*.

Contact officer

General Manager; Group Manager People and Performance; Group Manager Corporate and Commercial; Governance Officer.

Related documents

Policies

N/A

Procedures

Feedback and Complaints Handling.

Legislation

Civil Liability Act 2002

Government Information and Public Access Act 2009

Local Government Act 1993

Privacy and Personal Information Protection Act 1998

Public Interest Disclosures Act 1994

Other

N/A

For revocation

Office use only	File no.: 172	Next review date: [2 years]	
Version	Purpose and description	Date adopted by Council	Resolution no.
1.0		11/02/2009	
2.0	To efficiently and fairly manage feedback and complaints from customers and members of the public about the level and quality of Council service.	19/12/2018	124/18

Information reports

Responsible Officers: General Manager and Group Managers

Recommendation

That the following information reports be received and noted:

1. Investments - November 2022
2. Water consumption – October 2022
3. Reports/actions pending
4. Annual 'Model Code of Complaint Statistics'
5. Audit Risk and Improvement Committee 28 November 2022 – meeting update
6. Licence Agreement: Ngulingah Local Aboriginal Land Council – Level 2, 218-232 Molesworth Street, Lismore
7. Disclosure of Interest Returns
8. Draft North Coast Regional Water Strategy – shortlisted actions – consultation paper – Council submission.

Background

Copies of the abovementioned reports are attached for information.

Consultation

The reports have been prepared in consultation with the General Manager, relevant Group Managers and staff.

Conclusion

Copies of the reports listed are attached for information.

Attachment

1. Information reports 1-8

Investments – November 2022

Responsible Officer: Group Manager Corporate and Commercial (Geoff Ward)

Recommendation

That Council receive and note the Investments for November 2022.

Background

Clause 212 of the *Local Government (General) Regulation 2021* and Council's 'Investments' policy require that a report detailing Council's investments be provided. This report has been prepared as at 30 November 2022.

Finance

The RBA cash rate is 2.85%

At the RBA's 1st November 2022 meeting, it was decided to increase the cash rate by 25 basis points to 2.85%. Over the year to September, the CPI inflation rate was 7.3 per cent, the highest it has been in more than three decades. Global factors explain much of this high inflation, but strong domestic demand relative to the ability of the economy to meet that demand is also playing a role. A further increase in inflation is expected over the months ahead, with inflation now forecast to peak at around 8 per cent later this year. Inflation is then expected to decline next year due to the ongoing resolution of global supply-side problems, recent declines in some commodity prices and slower growth in demand.

The 90-day average bank bill swap rate (BBSW) is 3.05%.

Total funds invested as at 30 November 2022 is \$41,287,128

This includes term investments and cheque account balance.

Weighted Average Return for November 2022 is 2.74%

This represents an increase of 75 basis point compared to the September 2022 result (1.99%) and is 35 basis points below Council's benchmark (the average 90-day BBSW rate of 3.05%) (Refer: Graph D2 -Attachment D).

Interest earned for November 2022 is \$73,971

Interest earned compared to the original budget is \$257,287 above the pro-rata budget. In the September QBRS the interest budget was reviewed and increased by \$537,200 in line with current interest rate increases. (Refer: Attachment A).

Cheque account balance as at 30 November 2022 is \$166,116

Ethical holdings as at 30 November 2022 is \$10,447,404 (20.67% of current holdings)

The assessment of Ethical Financial Institutions is undertaken using www.marketforces.org.au which is an affiliate project of the Friends of the Earth Australia (Refer: Graph D4 - Attachment D).

Legal

Investments are to be made in accordance with section 625 of the *Local Government Act 1993* ('Act') and Council's 'Investments' policy and reported to Council in accordance with clause 212 of the *Local Government (General) Regulation 2021* ('Regulation').

Conclusion

A report on investments is required to be submitted to Council. As at 30 November 2022, investments total \$41,121,012 and the average rate of return is estimated at 2.74%.

Council's investments are compliant with the requirements of the Act, the Regulation, and Council's Investment Policy and loan covenant requirements. The September breach, reported to Council in October 2022, has now been corrected.

Attachments

- A. Investment analysis
- B. Investment by type
- C. Investment by Institution
- D. Total funds invested - comparisons
- E. Summary of indebtedness

Funds Invested With	S & P Local Long Term Rating	Product Name	Ethical ADIs	Lodgement Date	Maturity Date	% of Portfolio	31 Nov 22 Balance	Rate of Return	Monthly Interest	Year-to-Date Interest
CBA Business Online Saver	AA-	CBA-BOS	No	At call		12.45	5,121,012.17	1.95		24,002.13
Summerland Credit Union	UNRATED	TD	Yes	9/11/2021	6/12/2022	1.22	500,000.00	0.65	267.12	1,362.33
Westpac Banking Corporation	AA-	TD	No	7/12/2021	6/12/2022	2.43	1,000,000.00	0.58	476.71	2,431.23
ING Bank Aust Ltd	A	TD	No	7/12/2021	13/12/2022	2.43	1,000,000.00	0.60	493.15	2,515.07
Westpac Banking Corporation	AA-	TD	No	4/1/2022	4/1/2023	1.22	500,000.00	0.68	279.45	1,425.21
National Australia Bank Limited	AA-	TD	No	11/1/2022	10/1/2023	2.43	1,000,000.00	0.65	534.25	2,724.66
Commonwealth Bank of Australia	AA-	TD	Yes	18/1/2022	18/1/2023	2.43	1,000,000.00	0.50	410.96	2,095.89
Westpac Banking Corporation	AA-	TD	No	16/2/2022	16/2/2023	2.43	1,000,000.00	0.95	780.82	3,982.19
Westpac Banking Corporation	AA-	TD	Yes	22/2/2022	22/2/2023	2.43	1,000,000.00	0.88	723.29	3,688.77
Westpac Banking Corporation	AA-	TD	Yes	23/2/2022	7/3/2023	2.43	1,000,000.00	0.94	772.60	3,940.27
Westpac Banking Corporation	AA-	TD	Yes	23/2/2022	14/3/2023	2.43	1,000,000.00	0.94	772.60	3,940.27
Westpac Banking Corporation	AA-	TD	No	23/2/2022	28/3/2023	1.22	500,000.00	0.94	386.30	1,970.14
ING Bank Aust Ltd	A	TD	No	1/3/2022	28/2/2023	2.43	1,000,000.00	0.80	657.53	3,353.42
Westpac Banking Corporation	AA-	TD	No	8/3/2022	8/3/2023	2.43	1,000,000.00	1.00	821.92	4,191.78
ING Bank Aust Ltd	A	TD	No	5/4/2022	4/4/2023	2.43	1,000,000.00	1.68	1,380.82	7,042.19
Bank of Queensland	BBB+	TD	Yes	19/4/2022	19/4/2023	2.43	1,000,000.00	1.90	1,561.64	7,964.38
MyState Bank Limited	BBB+	TD	Yes	29/4/2022	2/5/2023	2.43	1,000,000.00	2.60	2,136.99	10,898.63
Commonwealth Bank of Australia	AA-	TD	No	29/4/2022	2/5/2023	2.43	1,000,000.00	2.72	2,235.62	11,401.64
Commonwealth Bank of Australia	AA-	TD	No	3/5/2022	2/5/2023	2.43	1,000,000.00	2.74	2,252.05	11,485.48
Commonwealth Bank of Australia	AA-	TD	No	10/5/2022	10/5/2023	2.43	1,000,000.00	3.01	2,473.97	12,617.26
Bank Of Queensland	BBB+	TD	Yes	31/5/2022	6/6/2023	2.43	1,000,000.00	3.20	2,630.14	13,413.70
Commonwealth Bank of Australia	AA-	TD	No	14/6/2022	13/6/2023	2.43	1,000,000.00	3.89	3,197.26	16,306.03
Commonwealth Bank of Australia	AA-	TD	No	28/6/2022	28/6/2023	2.43	1,000,000.00	3.95	3,246.58	16,557.53

ING Bank Aust Ltd	A	TD	No	29/6/2022	4/7/2023	3.65	1,500,000.00	4.00	4,931.51	25,150.68
ING Bank Aust Ltd	A	TD	No	30/6/2022	30/6/2023	3.65	1,500,000.00	4.05	4,993.15	25,465.07
Bank of Queensland	BBB+	TD	Yes	2/8/2022	1/8/2023	1.22	500,000.00	3.85	1,582.19	6,381.51
Westpac Banking Corporation	AA-	TD	No	23/8/2022	23/8/2023	4.86	2,000,000.00	4.13	6,789.04	22,630.14
AMP Bank	BBB	TD	No	13/9/2022	13/9/2023	1.22	500,000.00	4.30	1,767.12	4,653.42
AMP Bank	BBB	TD	No	20/9/2022	19/9/2023	2.43	1,000,000.00	4.50	3,698.63	8,876.71
MyState Bank Limited	BBB+	TD	Yes	27/9/2022	26/9/2023	1.22	500,000.00	4.62	1,898.63	4,113.70
Westpac Banking Corporation	AA-	TD	No	11/10/2022	10/10/2023	2.43	1,000,000.00	4.30	3,534.25	6,008.22
National Australia Bank Limited	AA-	TD	No	18/10/2022	18/4/2023	1.22	500,000.00	3.82	1,569.86	2,302.47
Commonwealth Bank of Australia	AA-	TD	No	18/10/2022	17/10/2023	2.43	1,000,000.00	4.42	3,632.88	5,328.22
Westpac Banking Corporation	AA-	TD	N/A	25/10/2022	24/10/2023	1.22	500,000.00	4.57	1,878.08	2,316.30
Westpac Banking Corporation	AA-	TD	N/A	3/11/2022	9/5/2023	2.43	1,000,000.00	4.04	3,099.18	3,099.18
National Australia Bank Limited	AA-	TD	No	10/11/2022	14/11/2023	1.22	500,000.00	4.42	1,271.51	1,271.51
National Australia Bank Limited	AA-	TD	No	15/11/2022	16/5/2023	1.22	500,000.00	4.02	881.10	881.10
National Australia Bank Limited	AA-	TD	No	22/11/2022	23/5/2023	1.22	500,000.00	4.07	501.78	501.78
Commonwealth Bank of Australia	AA-	TD	No	22/11/2022	21/11/2023	2.43	1,000,000.00	4.52	1,114.52	1,114.52
Westpac Banking Corporation	AA-	TD	No	29/11/2022	28/11/2023	3.65	1,500,000.00	4.39	360.82	360.82
MATURED TDs									1,975.34	25,063.56
						100.00	41,121,012.17	2.74	73,971.37	314,829.12

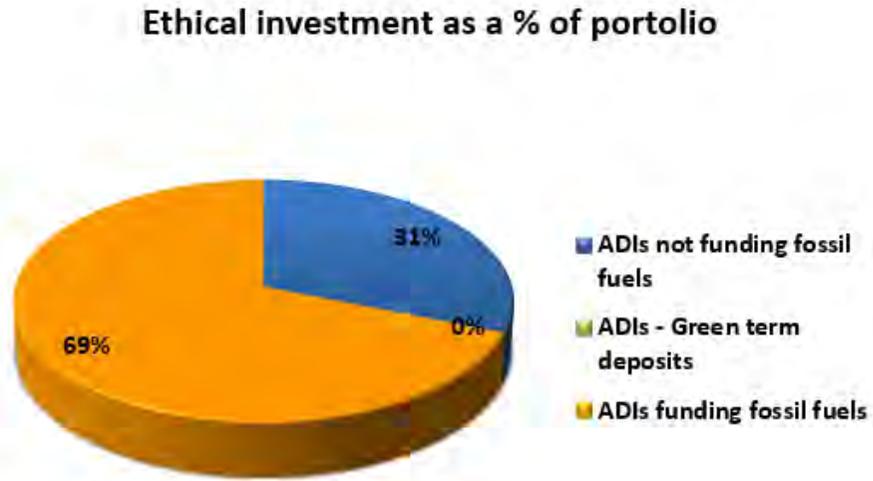
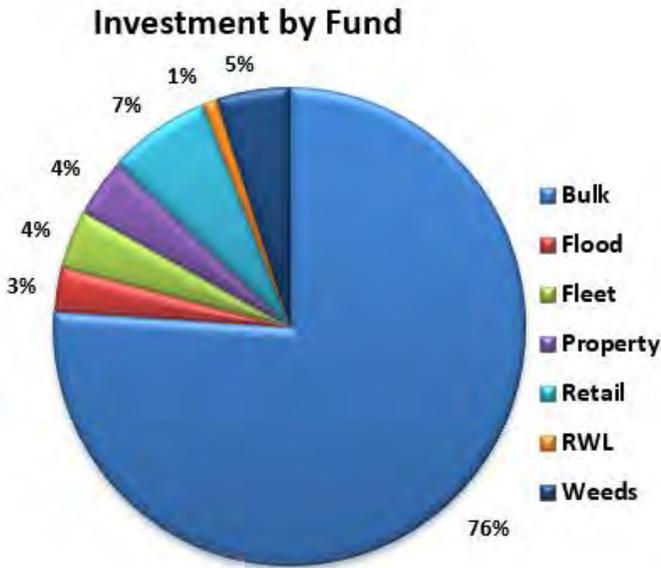
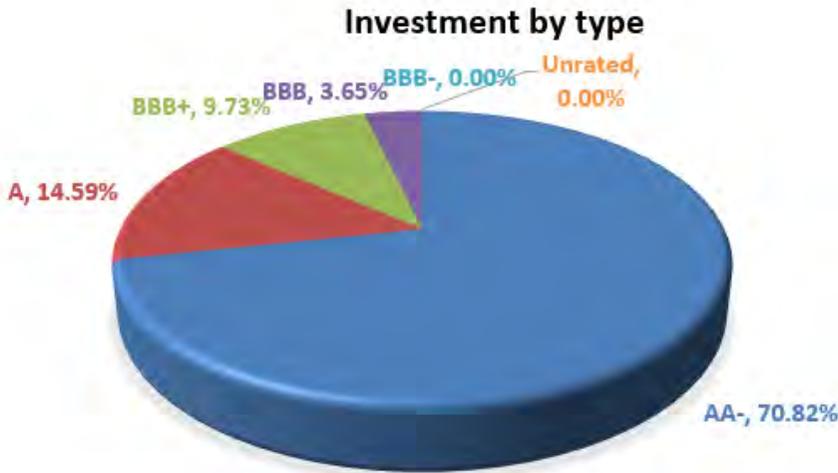
Total Investment Holdings**100.00 41,121,012.17****73,971.37 314,829.12**Total YTD Interest **314,829.12**

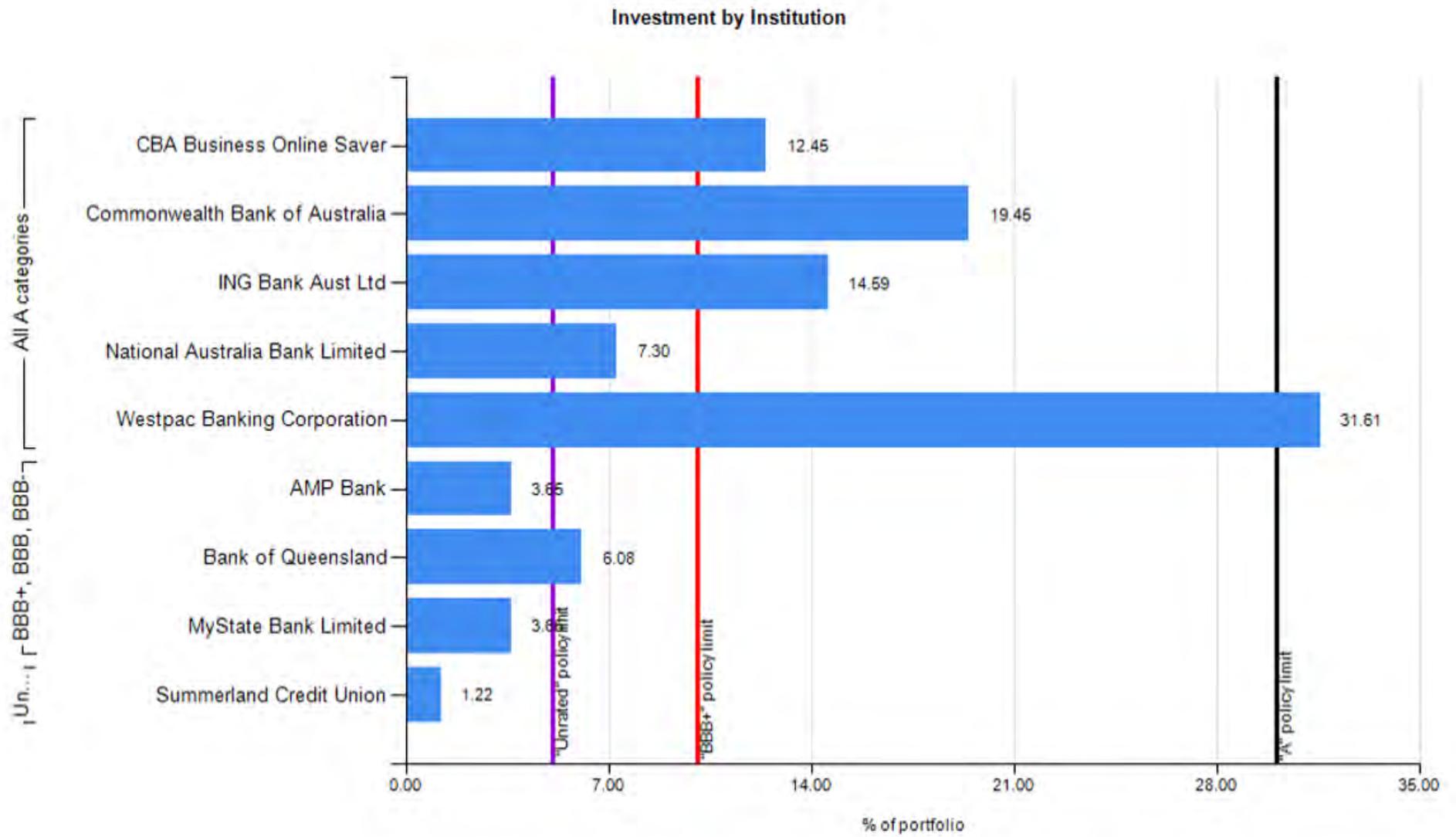
Deposits with Australian Deposit-taking institutions (ADI) are Government.

Budget Interest @ 30 November 2022 **57,542.00**

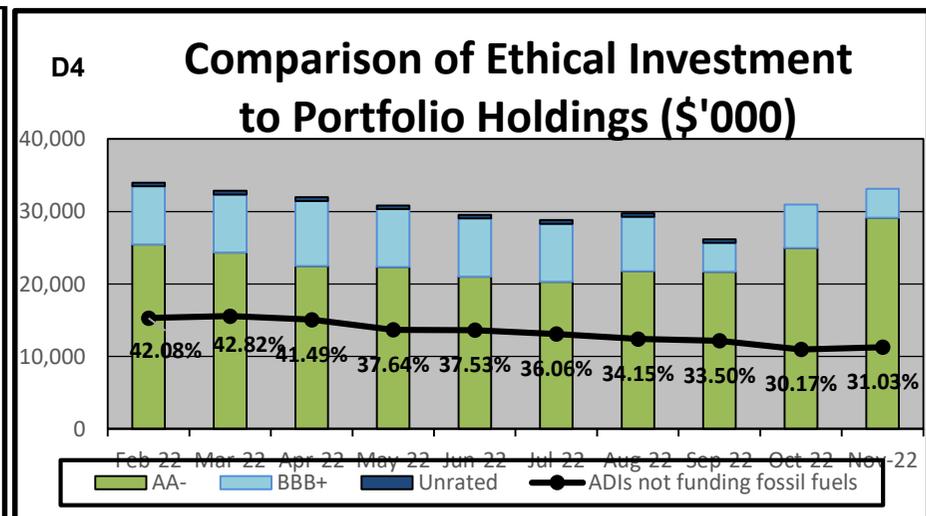
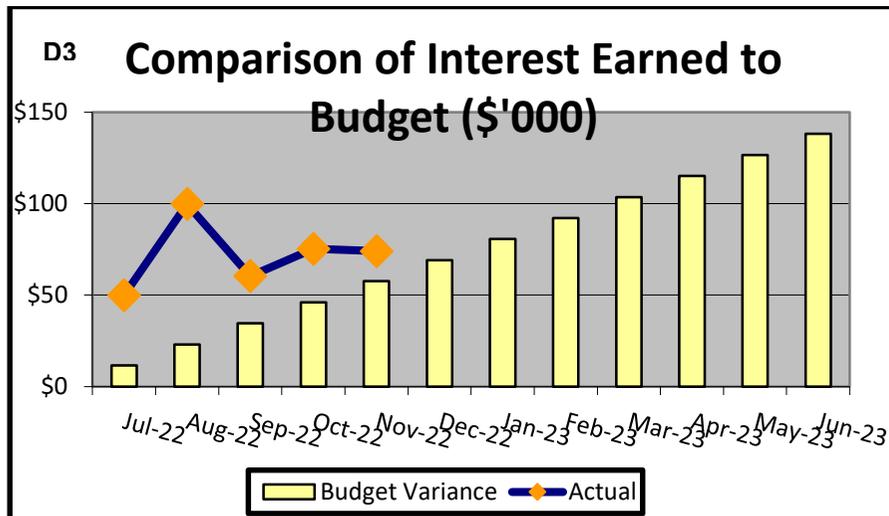
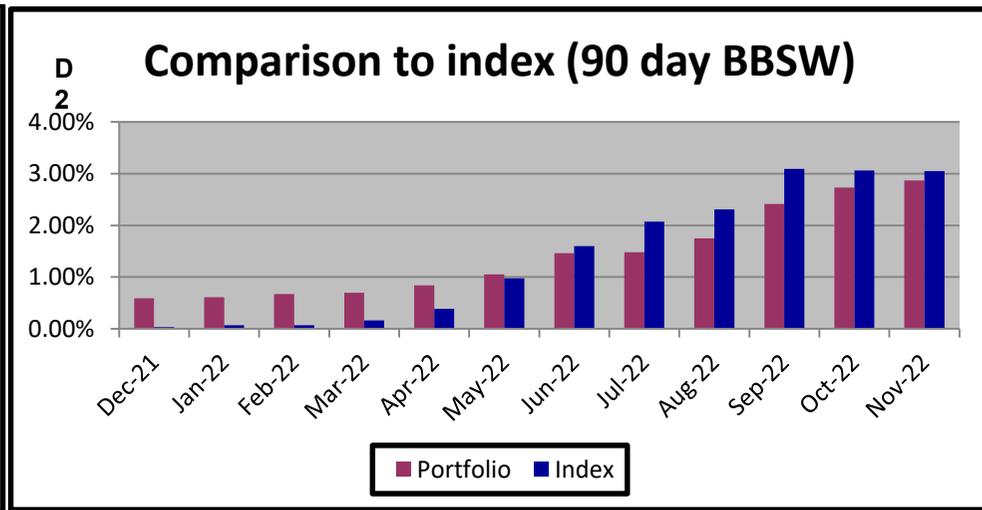
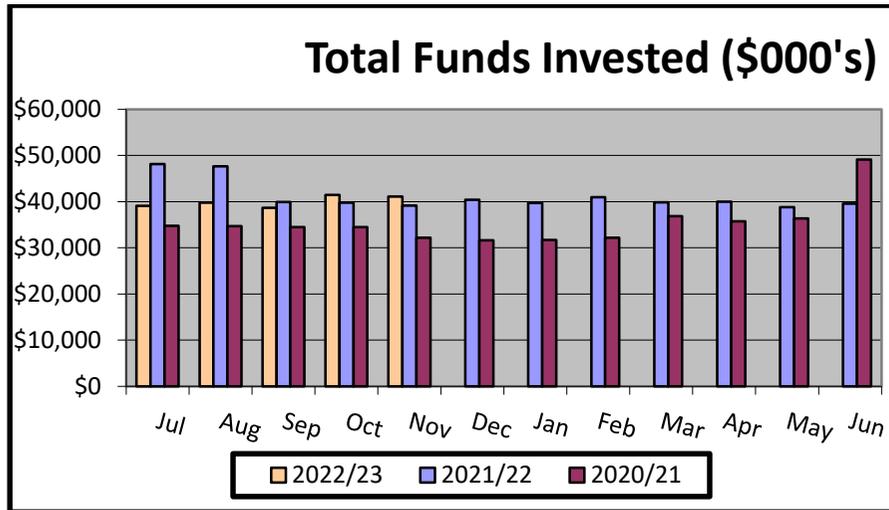
Guaranteed for balances totalling up to \$250,000 per customer, per institution.

Budget variance **257,287.12**





Note: Institutions shown with "xxx" and in red are in breach of council policy.



Summary of indebtedness as at 30 November 2022

Information	Loan #1	Loan #2	Loan #3	Loan #4	Loan #5	Loan #6	Loan #7	Total
Institution	CBA	CBA	CBA	Dexia	NAB	NAB	Tcorp	
Principal Borrowed	\$ 2,000,000	\$ 3,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 13,500,000	\$ 58,500,000
Date Obtained	9-Jun-04	31-May-05	31-May-06	21-Feb-07	31-May-07	25-Sep-07	7-Jun-21	
Term (Years)	20	20	20	20	20	20	20	
Interest Rate	6.82%	6.25%	6.37%	6.40%	6.74%	6.85%	2.68%	
Date Due	10-Jun-24	31-May-25	31-May-26	21-Feb-27	31-May-27	25-Sep-27	7-Jun-41	
Annual Commitment	\$ 184,785	\$ 264,921	\$ 891,595	\$ 893,507	\$ 917,390	\$ 925,933	\$ 876,390	\$ 4,954,520
Principal Repaid LTD	\$ 1,659,984	\$ 2,395,519	\$ 7,241,630	\$ 6,555,091	\$ 6,474,331	\$ 6,126,457	\$ 518,038	\$ 30,971,049
Interest Incurred LTD	\$ 1,666,148	\$ 2,240,593	\$ 7,469,690	\$ 7,296,608	\$ 7,745,208	\$ 7,762,533	\$ 358,352	\$ 34,539,132
Principal Outstanding	\$ 340,016	\$ 604,481	\$ 2,758,370	\$ 3,444,909	\$ 3,525,669	\$ 3,873,544	\$ 12,981,962	\$ 27,528,952
Interest Outstanding	\$ 29,554	\$ 57,821	\$ 362,213	\$ 576,552	\$ 623,282	\$ 768,009	\$ 3,669,452	\$ 6,086,882

Water consumption - October 2022

Responsible Officer: Group Manager Operations (Adam Nesbitt)

Recommendation

That the report be received and noted.

Background

The table below is the October 2022 bulk water sales to the constituent councils in kilolitres compared to the corresponding October sales for 2021 and 2020.

Council	Oct 2020 (kL)	Oct 2021 (kL)	Oct 2022 (kL)	% of Total Sales
Ballina Shire Council	348,282	297,193	276,091	37.4%
Byron Shire Council	242,202	187,941	192,029	26.02%
Lismore City Council	280,493	262,780	225,166	30.51%
Richmond Valley Council	58,506	52,212	44,837	6.07%
TOTAL MONTHLY CONSUMPTION BY CONSTITUENT COUNCILS	929,483	800,126	738,123	

Water usage - all constituent councils

Figure 1 shows the combined monthly bulk water consumption and rainfall at Rocky Creek Dam for the previous two years.

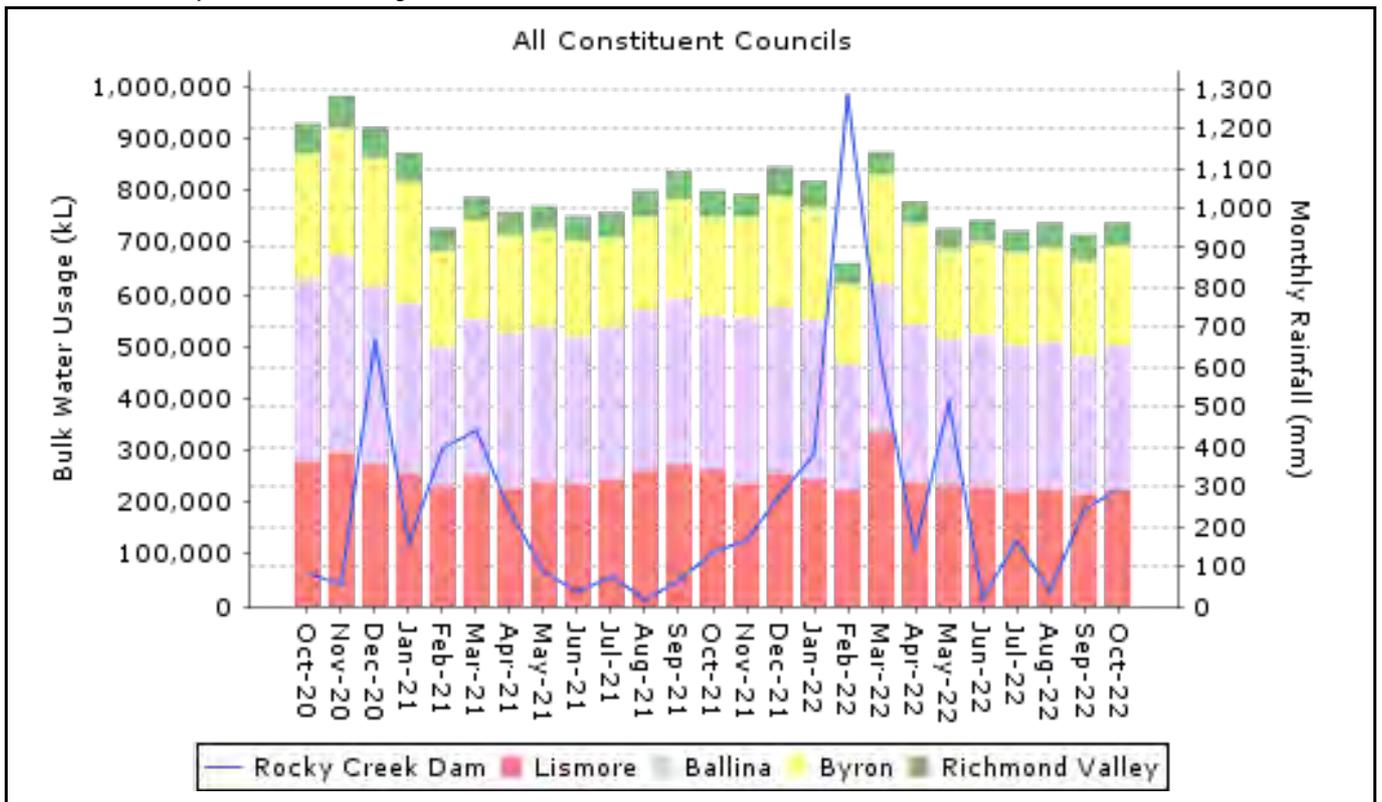


Figure 1: Total monthly consumption by constituent council and rainfall.

Figure 2 shows the total bulk water sales for the financial year to date compared with the previous two years.

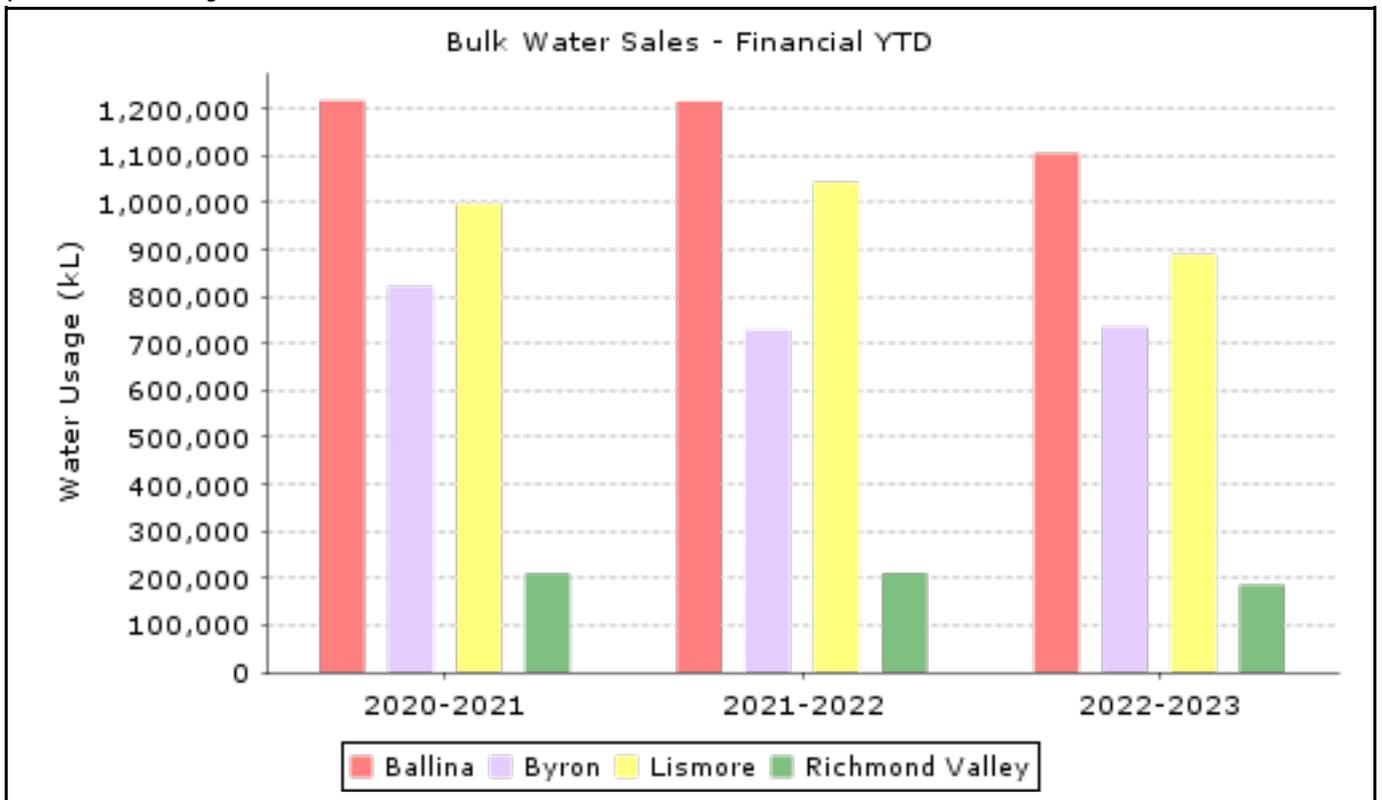


Figure 2: Bulk water sales by constituent council - 1 July to 31 October

Figure 3 and 4 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

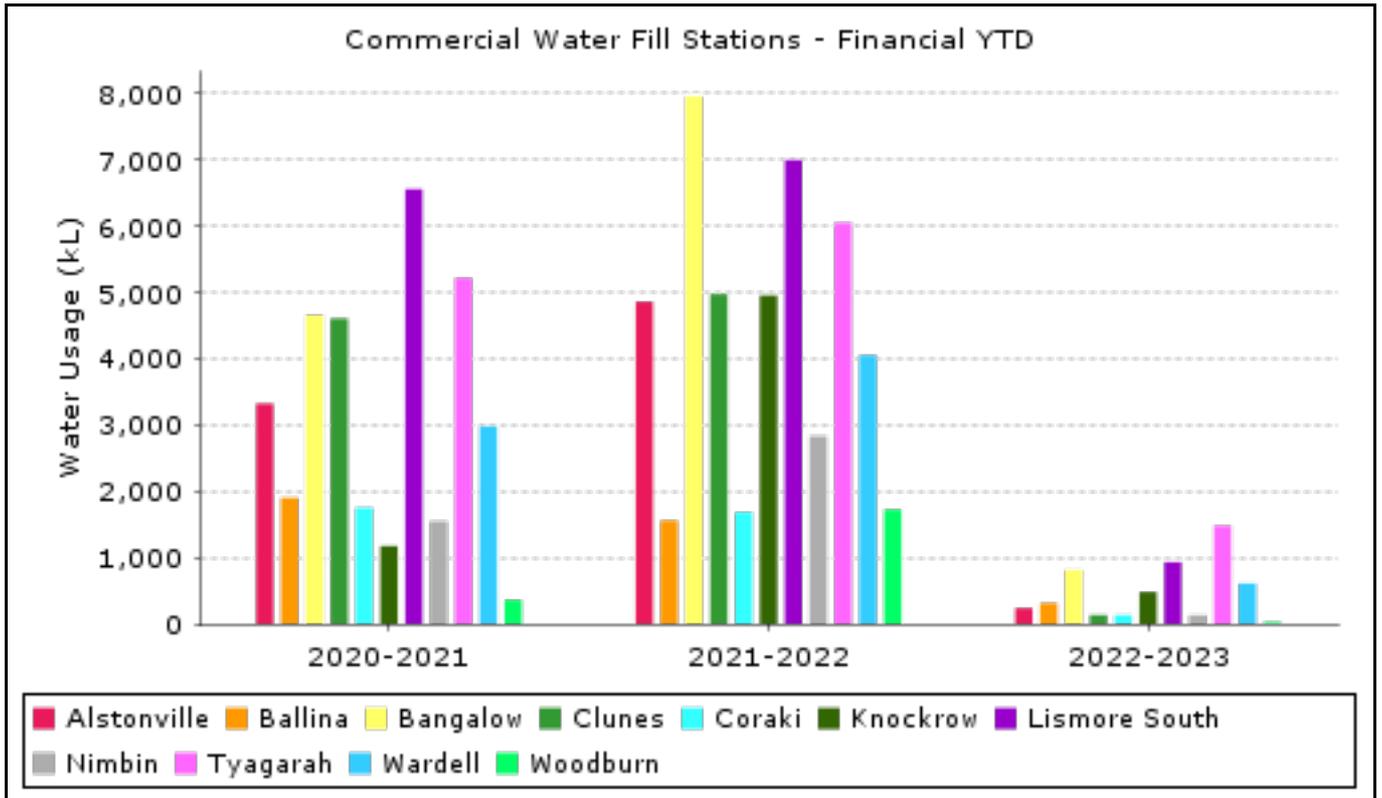


Figure 3: Comparison of commercial water fill stations total consumption - 1 July to 31 October

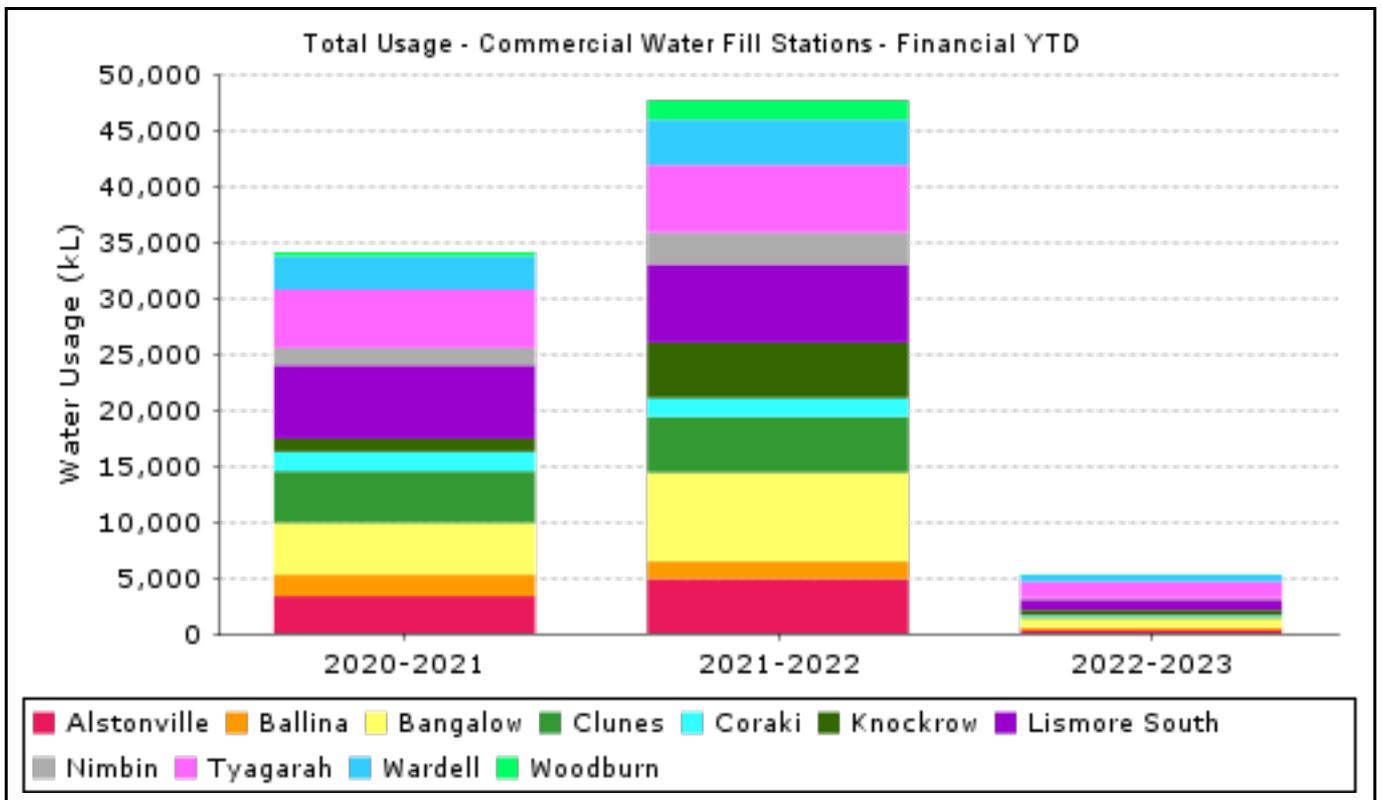


Figure 4: Total usage of commercial water fill stations - 1 July to 31 October

Figure 5 shows the combined water fill station monthly consumption for the previous two years. Rainfall data is from the rain gauge at Rocky Creek Dam.

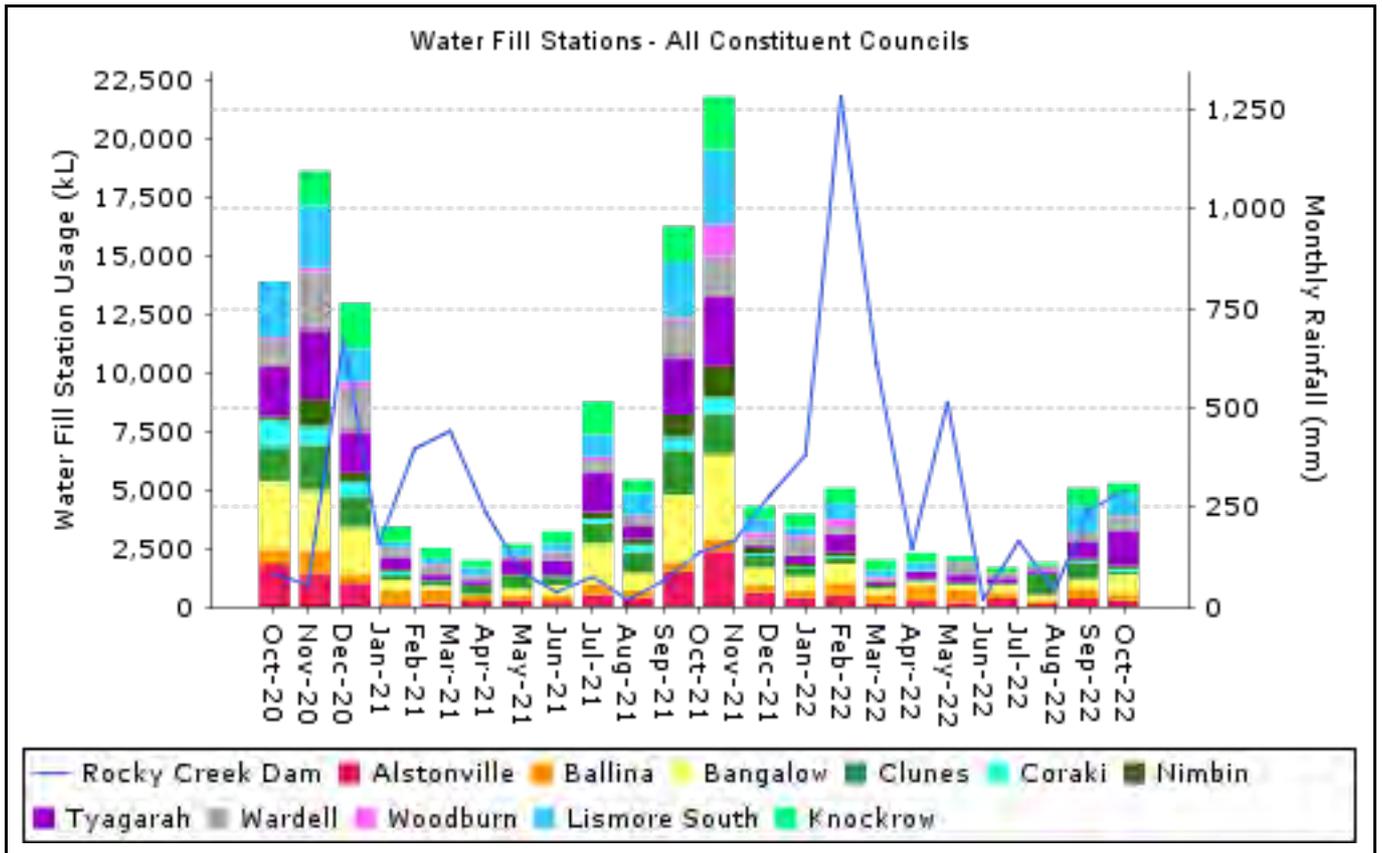


Figure 5: Total monthly consumption for commercial water fill stations and rainfall.

Source Contribution

Rocky Creek Dam capacity as of 31 October 2022 was 100.2%

Emigrant Creek Dam capacity as of 31 October 2022 was 102.6%

Source	October 2022 (kL)		Cumulative total 2022-2023 (kL)	
Rocky Creek Dam	802,716	99.99%	3,224,328	99.95%
Wilson River	1	0.00%	3	0.00%
Emigrant Creek Dam	49	0.01%	1,552	0.05%
Alstonville Plateau Bores	0	0.00%	0	0.00%
Coastal Sands	0	0.00%	0	0.00%
	802,766		3,225,883	

Rocky Creek Dam

Figure 6 show Rocky Creek Dam current water level and compares to previous years when levels reached lowest recorded dam level. Rainfall data is for the current financial year only.

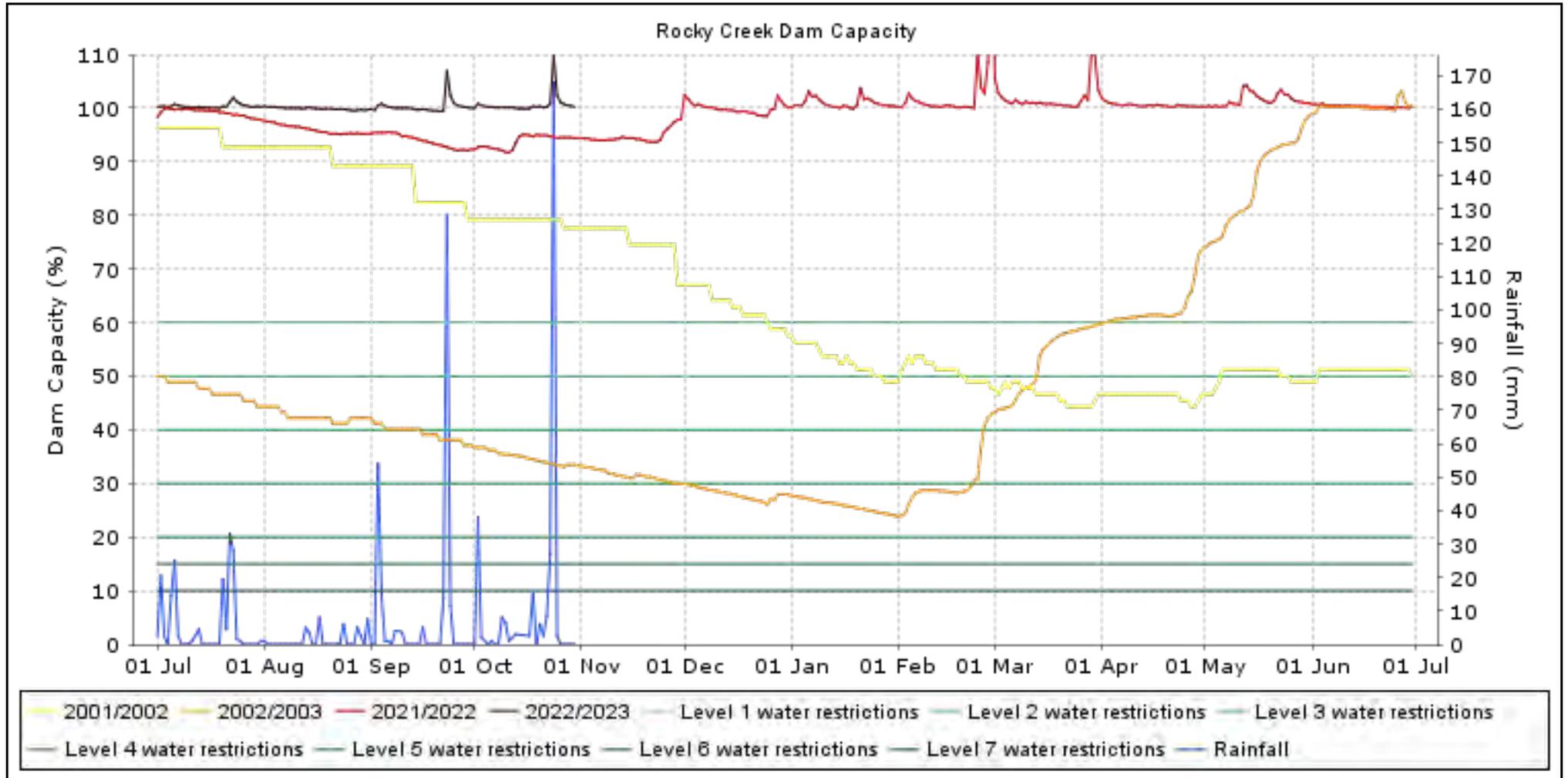


Figure 6: Rocky Creek Dam capacity and rainfall

Emigrant Creek Dam

Figure 7 show Emigrant Creek Dam current water level and compares to previous two years. Rainfall data is for the current financial year only.

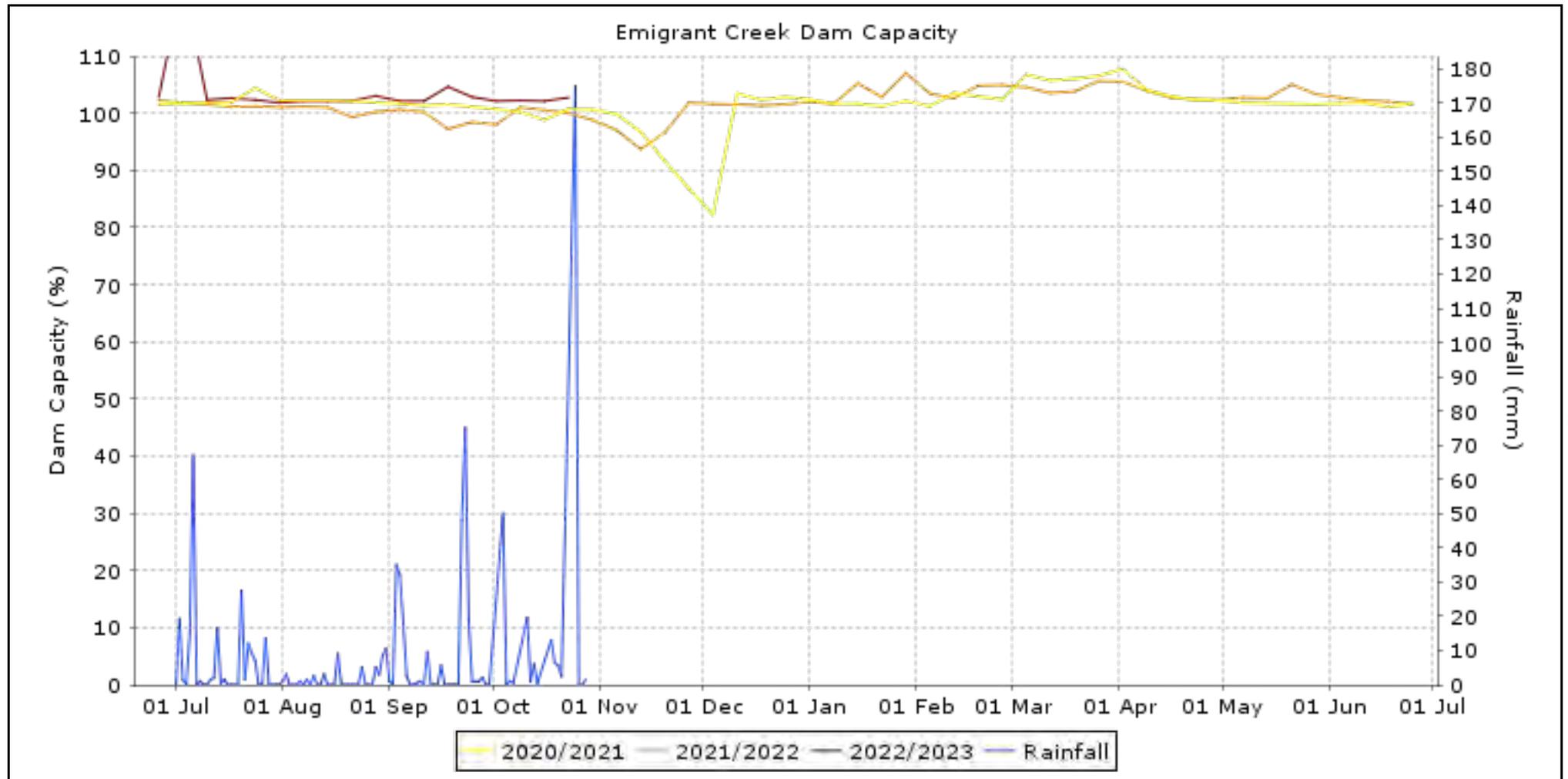


Figure 7: Emigrant Creek Dam capacity and rainfall

Monthly consumption by constituents - Ballina Shire Council

Figure 8 shows the monthly consumption for Ballina Shire Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Ballina Airport.

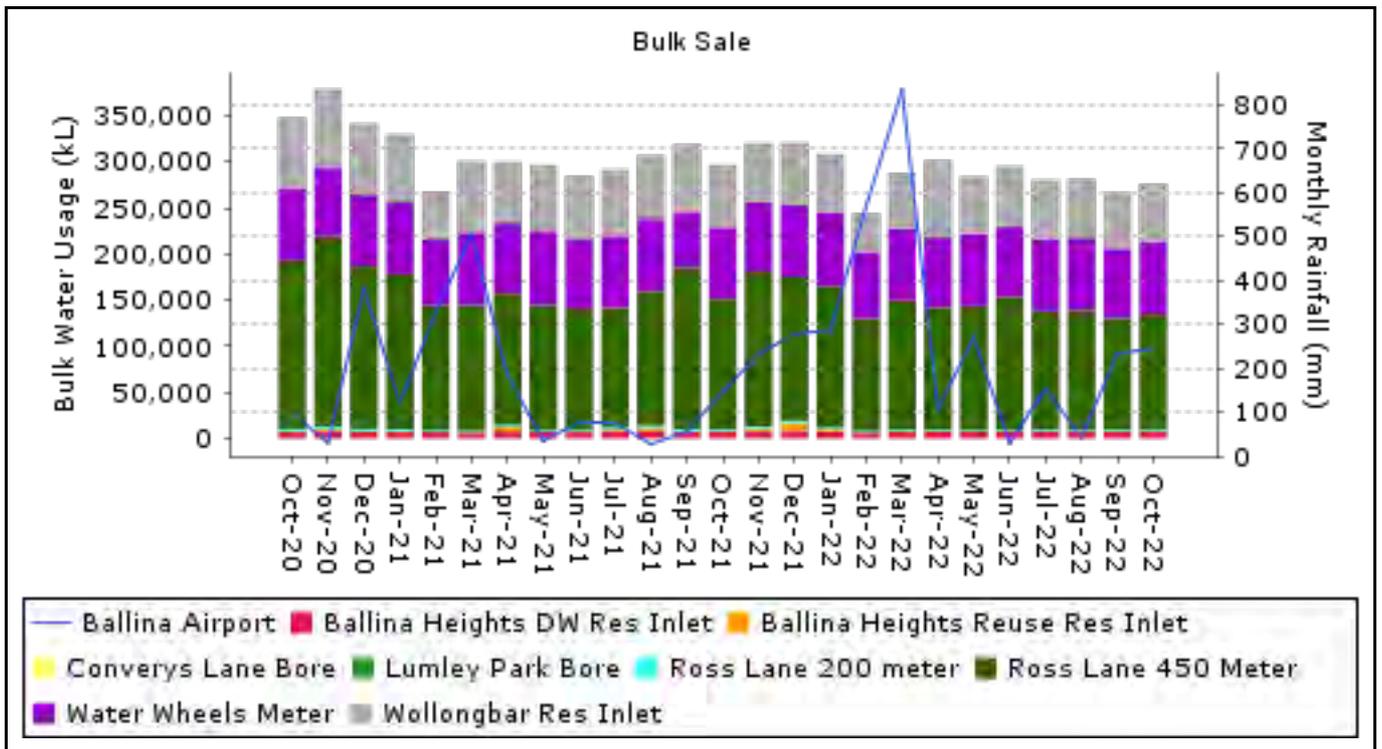


Figure 8: Monthly consumption and rainfall - Ballina Shire Council.

Figure 9 shows the monthly consumption for water fill stations for Ballina Shire Council and the rainfall for the previous two years.

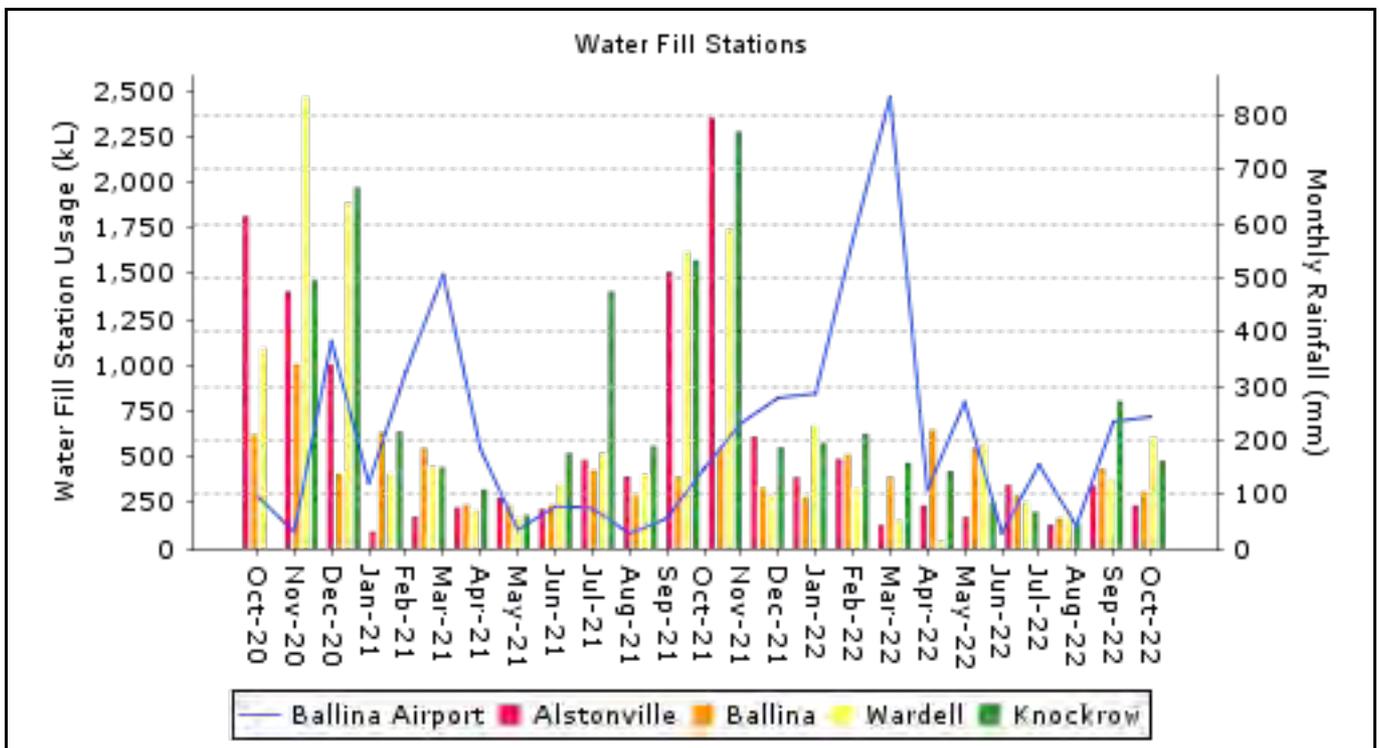


Figure 9: Monthly consumption commercial water fill station and rainfall.

Figure 10 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

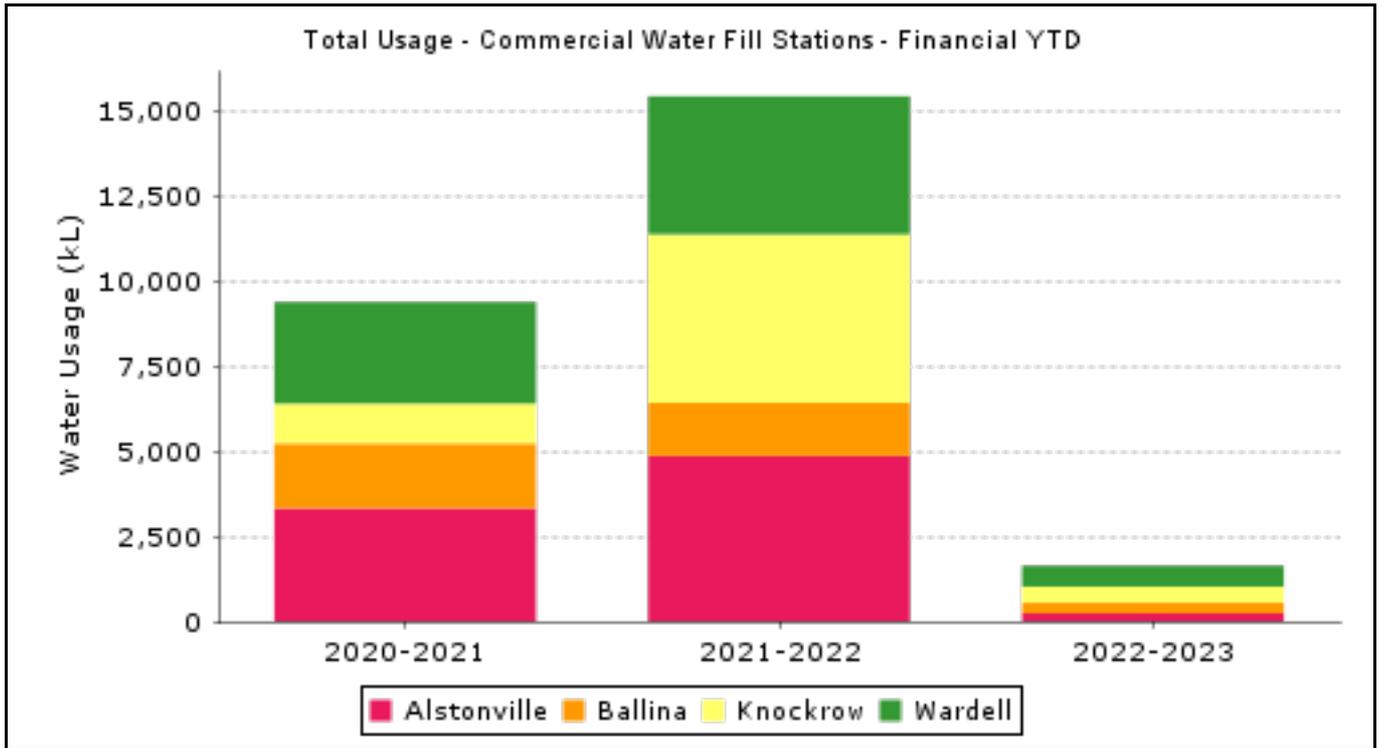


Figure 10: Total usage of commercial water fill stations. 1 July to 31 October

Monthly consumption by constituents - Byron Shire Council

Figure 11 shows the monthly consumption for Byron Shire Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Cape Byron.

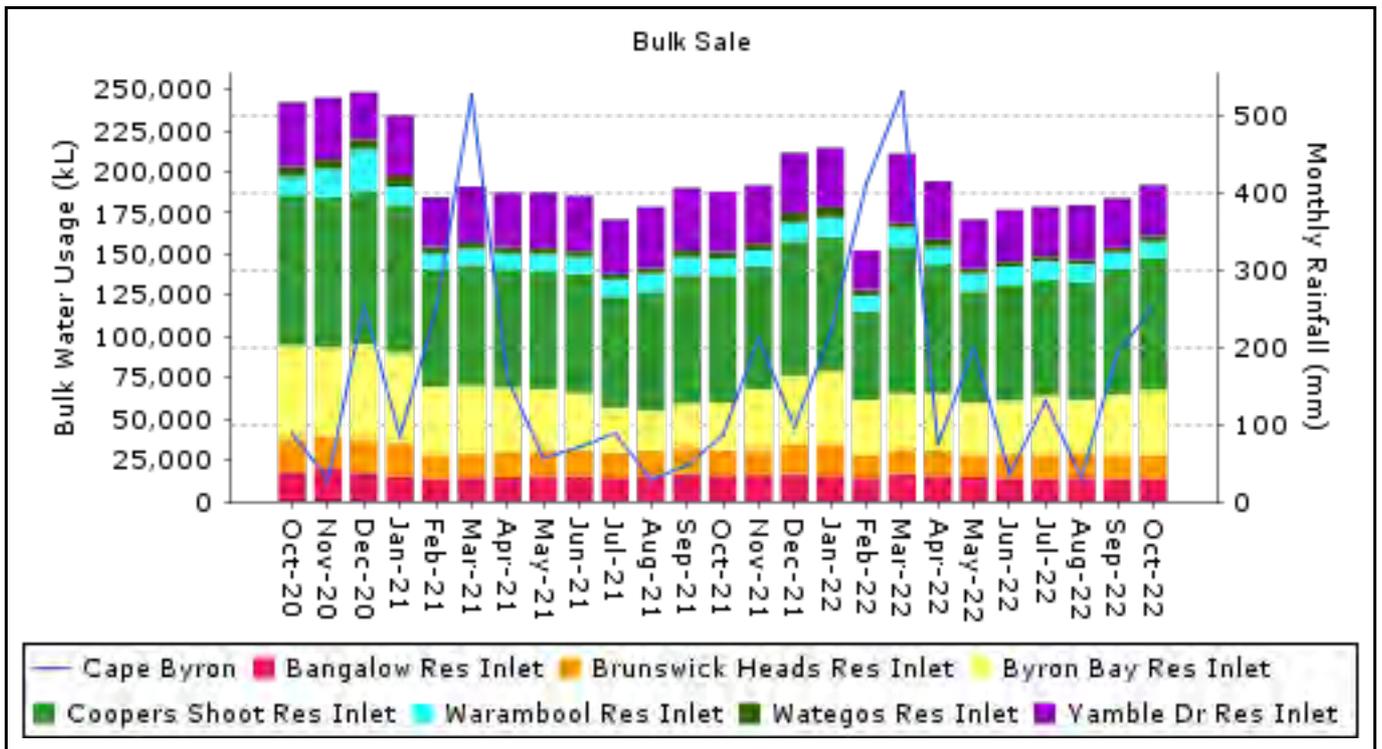


Figure 11: Monthly consumption and rainfall - Byron Shire Council.

Figure 12 shows the monthly consumption for water fill stations for Byron Shire Council and the rainfall for the previous two years.

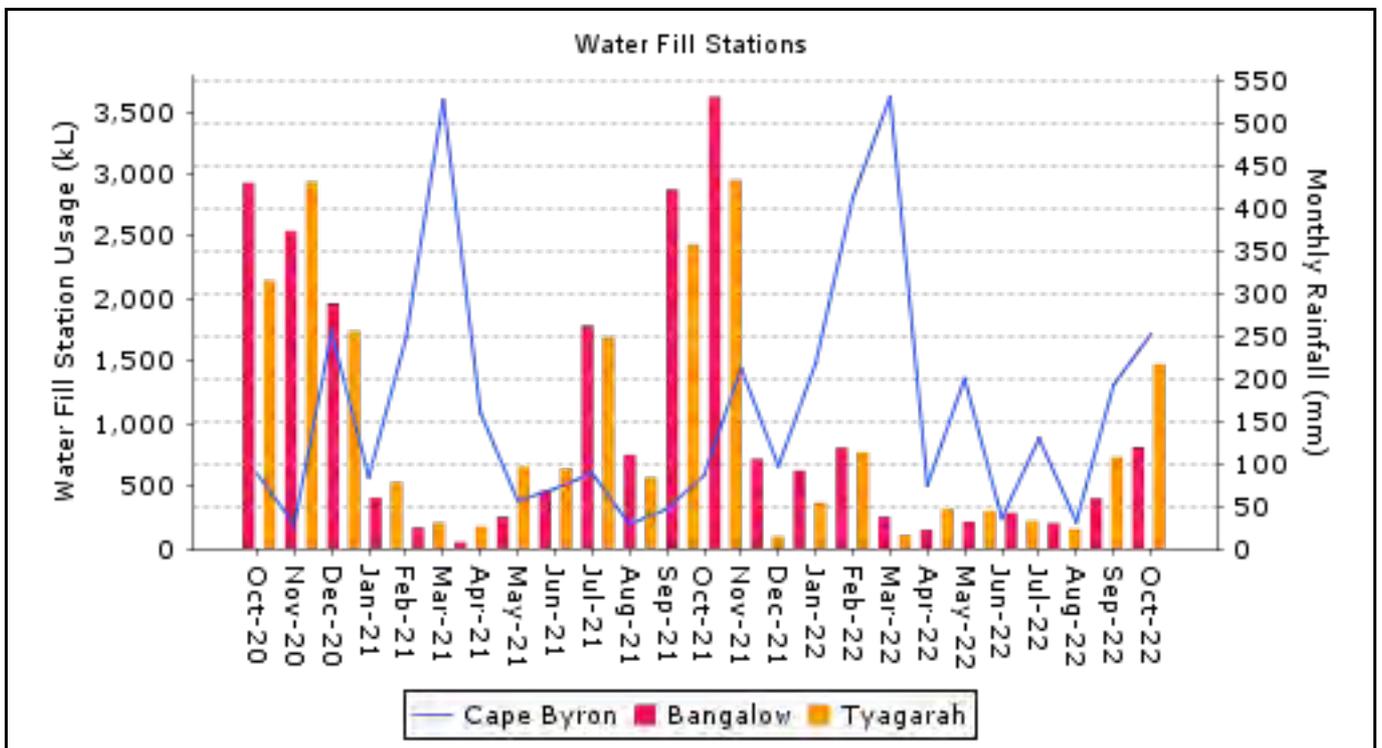


Figure 12: Monthly consumption commercial water fill station and rainfall.

Figure 13 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

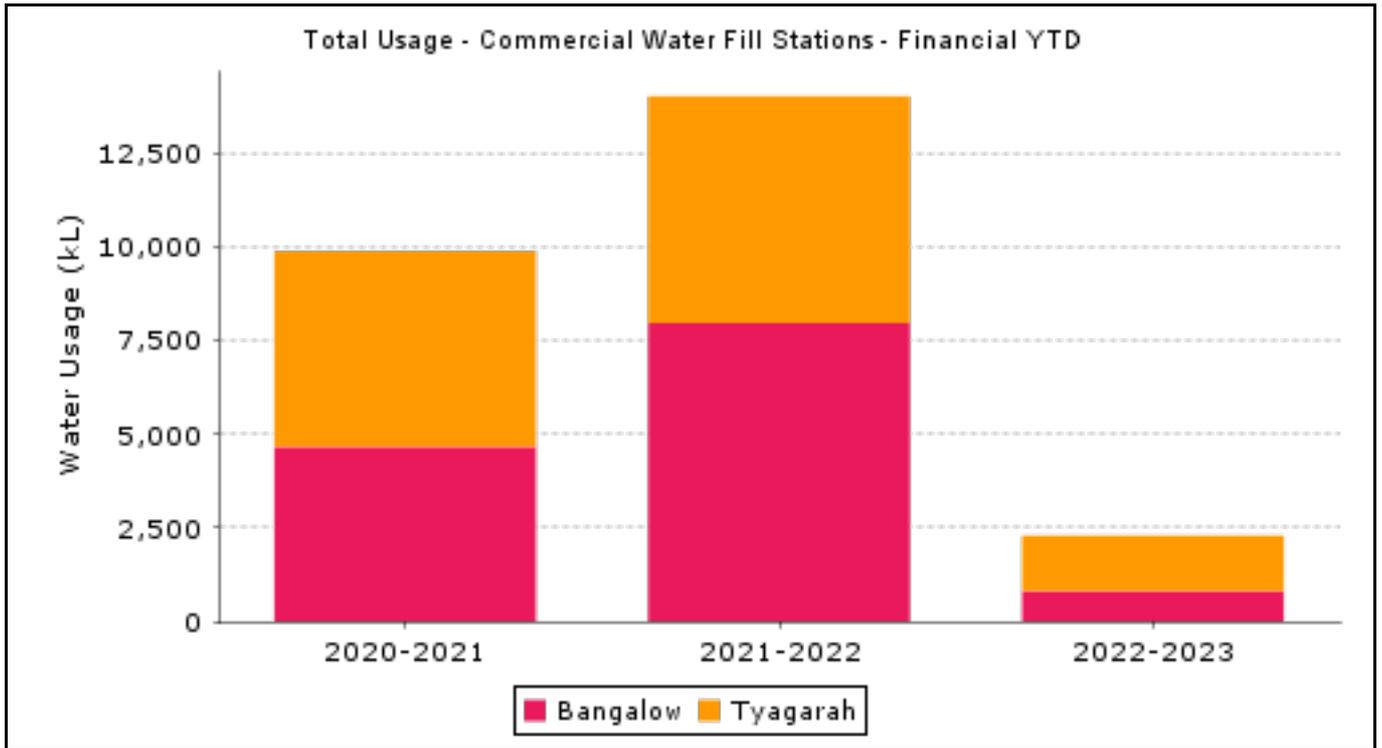


Figure 13: Total usage of commercial water fill stations. 1 July to 31 October

Monthly consumption by constituents - Lismore City Council

Figure 14 shows the monthly consumption for Lismore City Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Lismore Airport.

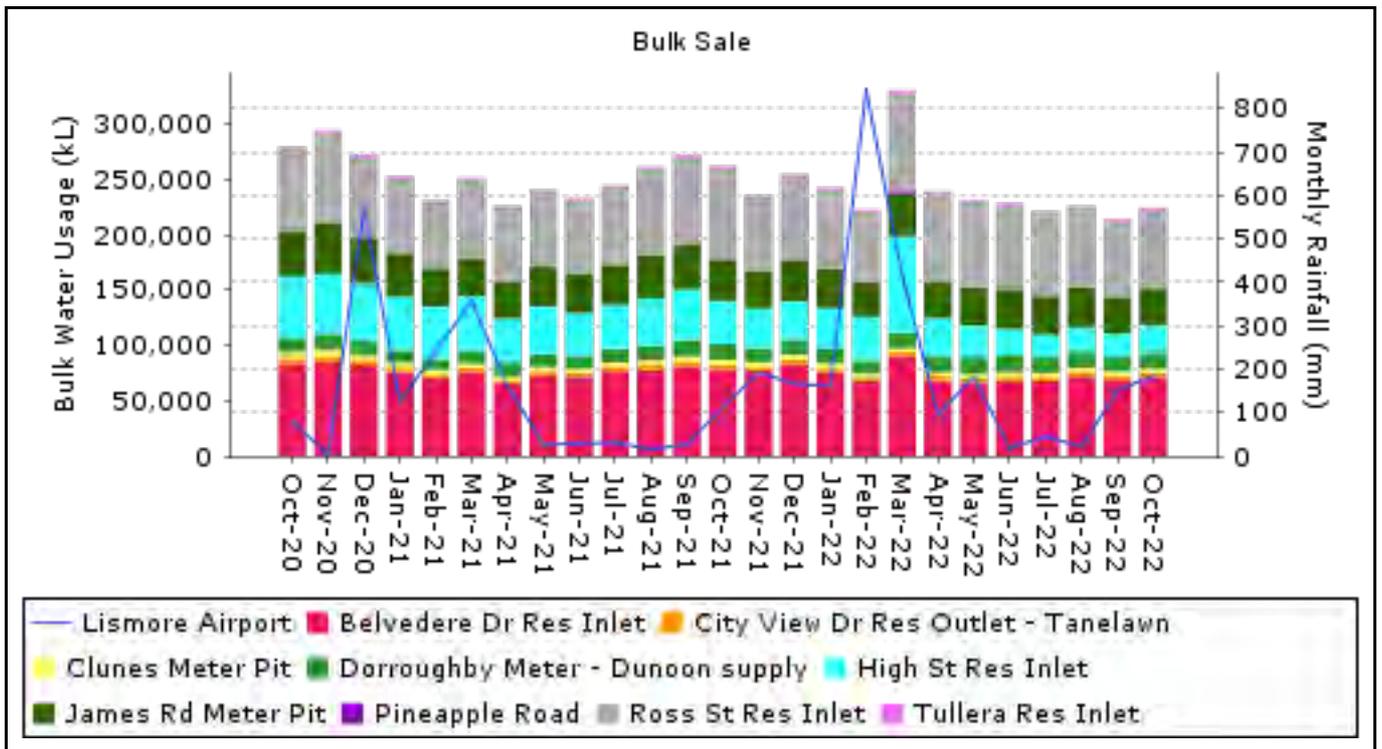


Figure 14: Monthly consumption and rainfall - Lismore City Council.

Figure 15 shows the monthly consumption for water fill stations for Lismore City Council and the rainfall for the previous two years.

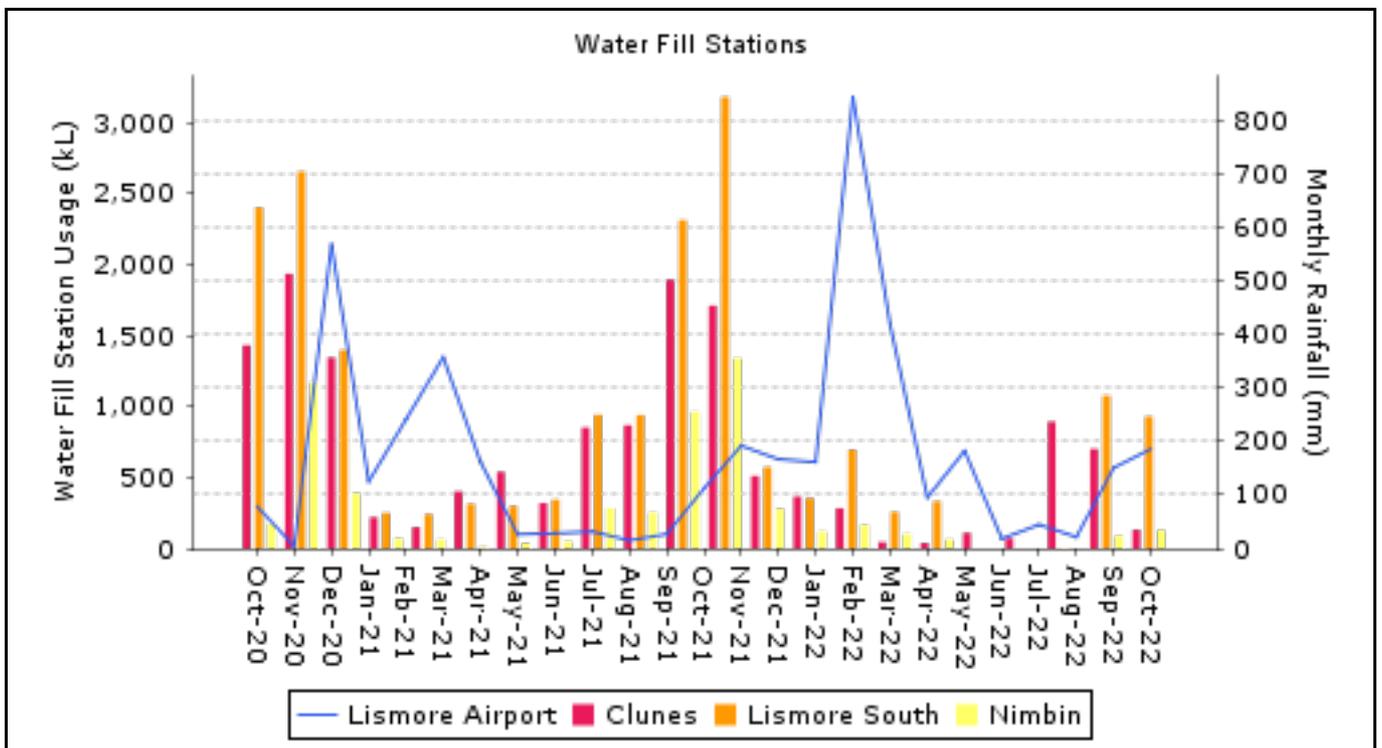


Figure 15: Monthly consumption commercial water fill station and rainfall.

Figure 16 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

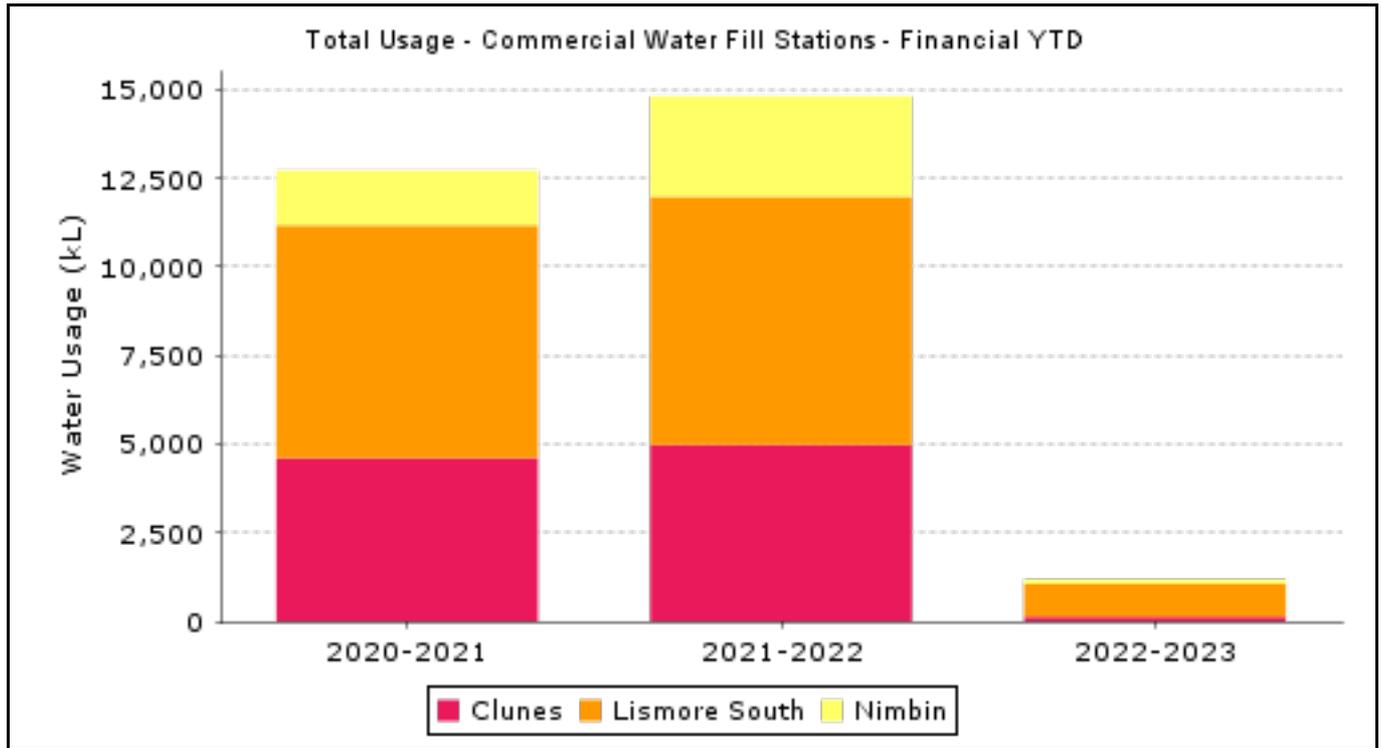


Figure 16: Total usage of commercial water fill stations. 1 July to 31 October

Monthly consumption by constituents - Richmond Valley Council

Figure 17 shows the monthly consumption for Richmond Valley Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Evans Head.

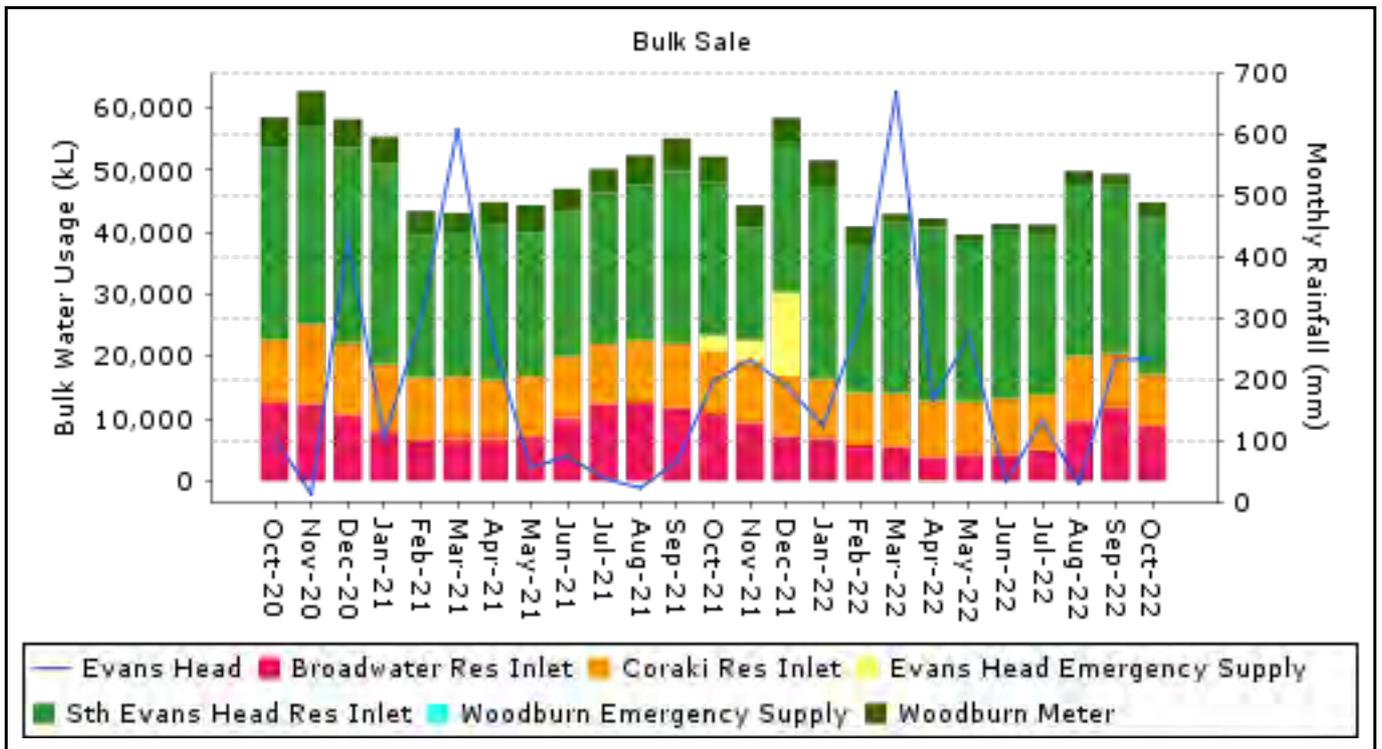


Figure 17: Monthly consumption and rainfall - Richmond Valley Council.

Figure 18 shows the monthly consumption for water fill stations for Richmond Valley Council and the rainfall for the previous two years.

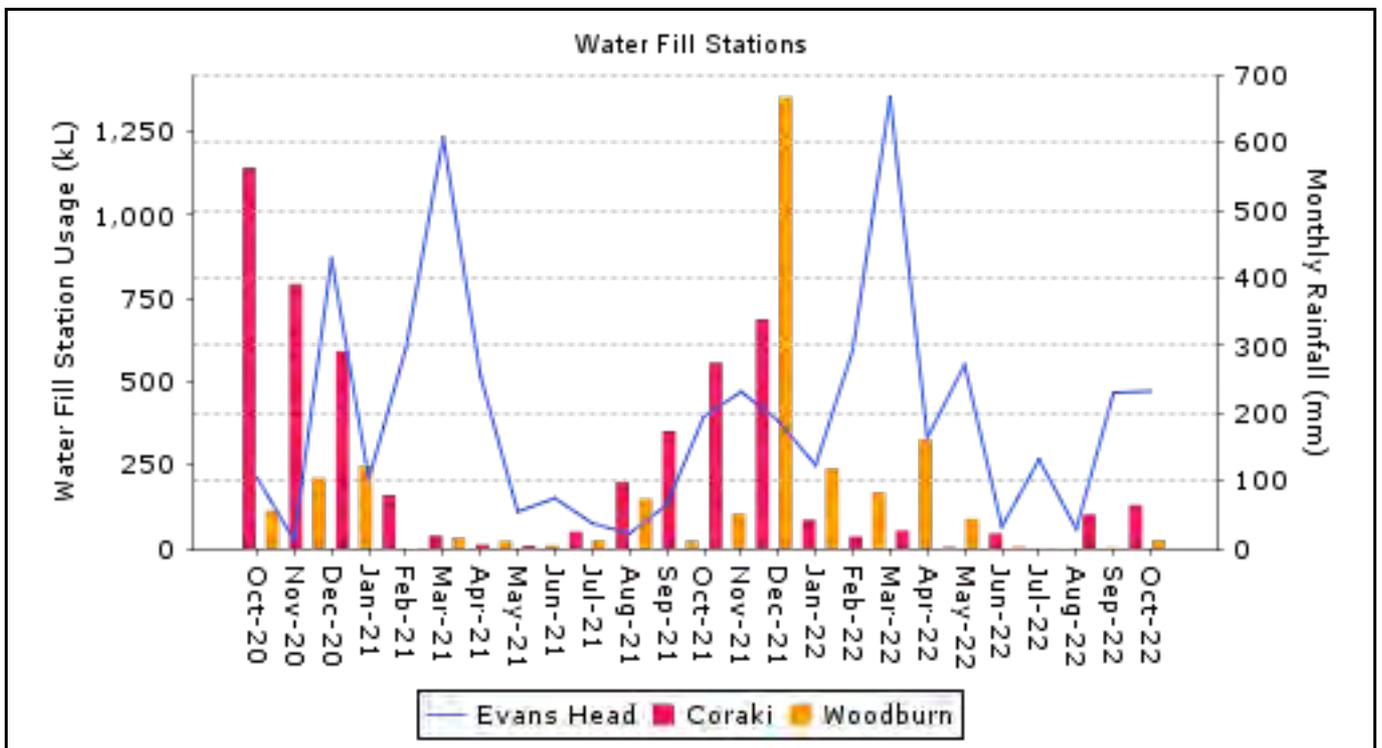


Figure 18: Monthly consumption commercial water fill station and rainfall.

Figure 19 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

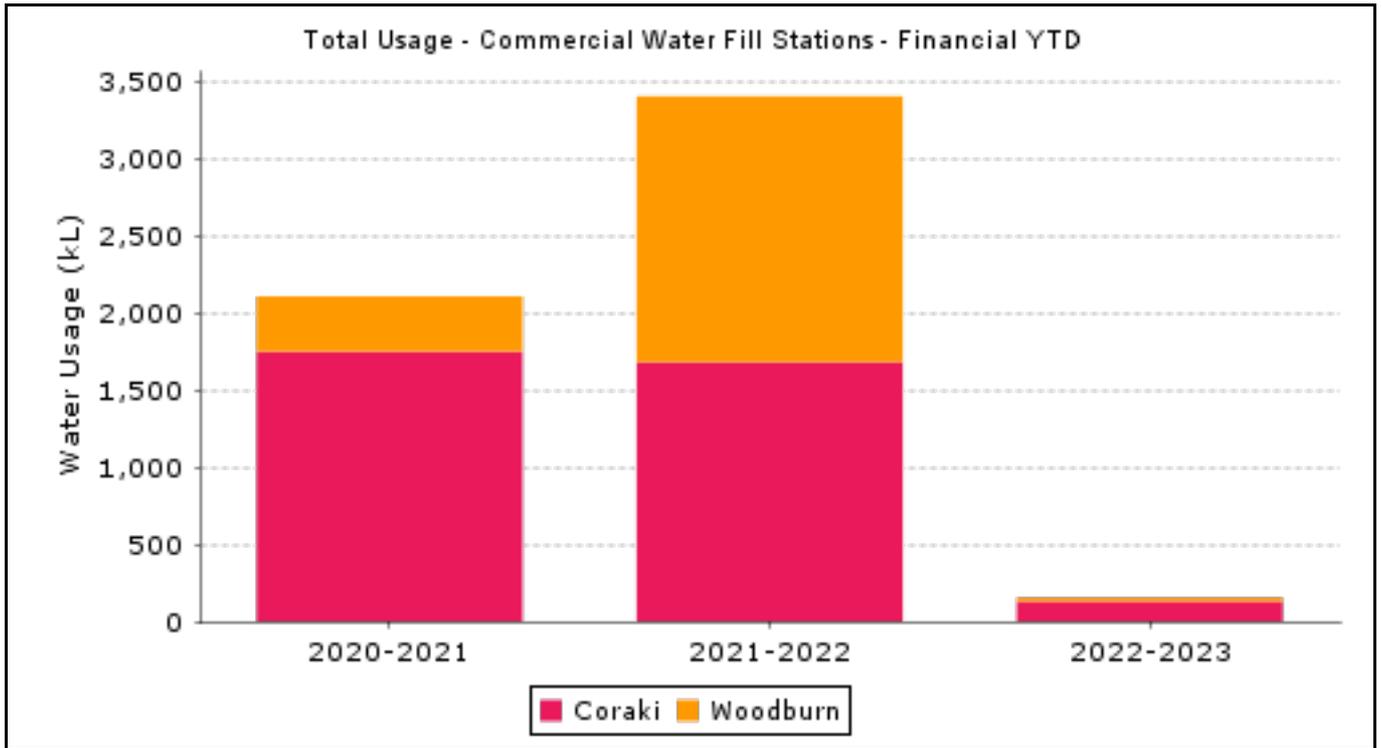


Figure 19: Total usage of commercial water fill stations. 1 July to 31 October

Reports/actions pending

Responsible Officer: General Manager

Recommendation

That the report be received and noted.

Background

Following is a list of pending resolutions with individual comments provided on current position and expected completion date.

Meeting	Resolution	Status
20/02/19	Confidential report: Development Servicing Plan for Bulk Water Supply 2016 – request for deferred payment arrangement	
	RESOLVED [13/19] (Mustow/Cadwallader) that Council: 1. Receive and note this report. 2. Approve the request for deferred payment arrangements as set out in the report. 3. Receive a subsequent report on policy options for deferred payment arrangements having regard to the Development Servicing Plan for Bulk Water Supply and the policy positions of constituent councils. 4. Reject any further consideration of similar requests until point 3. is complete and a policy position is determined.	Scheduled for review before the expiry of the current Development Servicing Plan in 2021. UPDATE: The scope of work for the development of the new Development Servicing Plan is complete and quotes are being called for the new Plan. UPDATE: A consultant was appointed in mid-March 2022 to prepare a new Development Servicing Plan. The new Plan is substantially progressed. A draft Plan will be presented to Council in December 2022. UPDATE: Please refer to report in Council meeting agenda 14-12-2022 regarding DSP.
11/12/19	Information reports	
	Perradenya cycleway: A future report be provided to Council.	IN PROGRESS: Workshop presented at September 2020 workshop. Report to Council scheduled for April 2021. DEFERRED: Deferred to new term of Council subject to adoption of the FWP2060 and incorporation into the Long-Term Financial Plan. Target December 2021 – June 2022. UPDATE: February 2022 – June 2022. Site visit and workshop scheduled September 2022.
	Richmond River Cane Growers' Association submission: <i>Review of Tuckombil Canal fixed weir.</i> (Letters 118585 / 53238)	IN PROGRESS: Staff engaged with RVC staff around their grant application for a Study to update their Richmond River Flood Model (2010). Their grant was successful, and they have commenced procurement of a modelling consultant. Rous has contributed \$10,000 towards the project. One secondary goal for their Study is to consolidate these models along the mid to lower Richmond, including the Evans River Model, the W2B Pacific Highway Upgrades and collect high resolution flood modelling

Meeting	Resolution	Status
		<p>information around the Tuckombil Canal/ upstream.</p> <p>The updated model information will contribute to a future Rous-led options study for the Tuckombil Canal. The Cane Growers' Association was advised in April 2020 of the intentions with regards to Richmond Valley Council, and will be updated during December 2020 with the latest information.</p> <p><u>UPDATE:</u> The work by Richmond Valley Council to update their flood model is progressing well, with modelling expected to be completed within the first quarter of the 21/22 FY. RCC's requirements for the flood modelling around the Tuckombil Canal are expected to be met and reported back during the same period.</p> <p><u>UPDATE:</u> Council staff received an update on the project from the consultants in early September 2021. The model development is nearing its conclusion and work will commence on modelling scenarios soon.</p> <p><u>UPDATE:</u> Richmond Valley Council (RVC) staff have advised that the consultants have finalised the flood model and are now in the reporting phase. A draft Study report will go to RVC in the first quarter of 2022.</p> <p><u>When the flood model is finalised, Rous will be able to consider the results and how a review of the Tuckombil Canal fixed weir would be financed.</u></p> <p><u>UPDATE:</u> The February 2022 floods since the last update have meant that the flood model finalisation and reporting to Richmond Valley Council (RVC) have been delayed. A new date for its finalisation is not yet available from RVC. Once the flood model is finalised, Rous will be able to consider the results and how a review of the Tuckombil Canal fixed weir would be financed.</p> <p><u>UPDATE:</u> The RVC flood model continues to be finalised following the floods. In the meantime, Rous staff continue to discuss the scope of work and funding options, whilst keeping stakeholders informed.</p>

Annual 'Model Code of Complaint Statistics'

Responsible Officer: Group Manager People and Performance

Recommendation

That Council note the information contained in the attached 'Model Code of Conduct Complaints Statistics' report and the requirement to provide the report to the Office of Local Government.

Background

In accordance with Part 11 of the Code of Conduct Procedures, Council's Complaints Coordinator must arrange for annual Code of Conduct complaints statistics to be reported to Council and to the Office of Local Government within three months of the end of September each year (being 31 December 2022).

- **Code of Conduct Complaints Statistics**

The Model Code of Conduct complaints statistics for the reporting period 1 September 2021 to 31 August 2022 are provided at Attachment 1.

Consultation

This report has been prepared in consultation with staff responsible for the handling of Code of Conduct complaints.

Conclusion

In accordance with Council's reporting requirements, the 'Model Code of Conduct Complaints Statistics' report has been prepared and is submitted to Council for its information and consideration.

Attachment

1. Model Code of Conduct Complaints Statistics for reporting period 1 September 2021 – 31 August 2022

Model Code of Conduct Complaints Statistics Rous County Council

Number of Complaints

1	a	The total number of complaints received in the period about councillors and the General Manager (GM) under the code of conduct	0
	b	The total number of complaints finalised in the period about councillors and the GM under the code of conduct	0

Overview of Complaints and Cost

2	a	The number of complaints finalised at the outset by alternative means by the GM or Mayor	0
	b	The number of complaints referred to the Office of Local Government (OLG) under a special complaints management arrangement	0
	c	The number of code of conduct complaints referred to a conduct reviewer	0
	d	The number of code of conduct complaints finalised at preliminary assessment by conduct reviewer	0
	e	The number of code of conduct complaints referred back to GM or Mayor for resolution after preliminary assessment by conduct reviewer	0
	f	The number of finalised code of conduct complaints investigated by a conduct reviewer	0
	g	The number of finalised complaints investigated where there was found to be no breach	0
	h	The number of finalised complaints investigated where there was found to be a breach	0
	i	The number of complaints referred by the GM or Mayor to another agency or body such as the ICAC, the NSW Ombudsman, OLG or the Police	0
	j	The number of complaints being investigated that are not yet finalised	0
	k	The total cost of dealing with code of conduct complaints within the period made about councillors and the GM including staff costs	0

Preliminary Assessment Statistics

3	The number of complaints determined by the conduct reviewer at the preliminary assessment stage by each of the following actions:		
	a	To take no action (clause 6.13(a) of the 2020 Procedures)	0
	b	To resolve the complaint by alternative and appropriate strategies (clause 6.13(b) of the 2020 Procedures)	0
	c	To refer the matter back to the GM or the Mayor, for resolution by alternative and appropriate strategies (clause 6.13(c) of the 2020 Procedures)	0
	d	To refer the matter to another agency or body such as the ICAC, the NSW Ombudsman, OLG or the Police (clause 6.13(d) of the 2020 Procedures)	0

e To investigate the matter (clause 6.13(e) of the 2020 Procedures)	0
---	---

Investigation Statistics

4 The number of investigated complaints resulting in a determination that there was no breach , in which the following recommendations were made:	
a That the council revise its policies or procedures	0
b That a person or persons undertake training or other education (clause 7.40 of the 2020 Procedures)	0
5 The number of investigated complaints resulting in a determination that there was a breach in which the following recommendations were made:	
a That the council revise any of its policies or procedures (clause 7.39 of the 2020 Procedures)	0
b In the case of a breach by the GM, that action be taken under the GM’s contract for the breach (clause 7.37(a) of the 2020 Procedures)	0
c In the case of a breach by a councillor, that the councillor be formally censured for the breach under section 440G of the Local Government Act 1993 (clause 7.37(b) of the 2020 Procedures)	0
d In the case of a breach by a councillor, that the councillor be formally censured for the breach under section 440G of the Local Government Act 1993 and that the matter be referred to OLG for further action (clause 7.37(c) of the 2020 Procedures)	0
6 Matter referred or resolved after commencement of an investigation (clause 7.20 of the 2020 Procedures)	0

Categories of misconduct

7 The number of investigated complaints resulting in a determination that there was a breach with respect to each of the following categories of conduct:	
a General conduct (Part 3)	0
b Non-pecuniary conflict of interest (Part 5)	0
c Personal benefit (Part 6)	0
d Relationship between council officials (Part 7)	0
e Access to information and resources (Part 8)	0

Outcome of determinations

8 The number of investigated complaints resulting in a determination that there was a breach in which the council failed to adopt the conduct reviewers recommendation	0
9 The number of investigated complaints resulting in a determination that there was a breach in which the council’s decision was overturned following a review by OLG	0

Audit Risk and Improvement Committee - meeting update

Responsible Officer: Group Manager People and Performance

Recommendation

That Council receive and note the attached minutes from the Audit, Risk and Improvement Committee meetings of 17 October 2022 and 28 November 2022.

Background

The Audit, Risk and Improvement Committee ('Committee') met on 17 October 2022 and 28 November 2022. A copy of the minutes of the meetings are attached ([Attachment 1 and 2](#)).

Key Messages

1. Finance

a. Annual financial reports

An update on and copies of the reports in relation to the following matters were furnished to the Audit, Risk and Improvement Committee at its meeting on 17 October 2022 and subsequently reported to Council at its 19 October 2021 meeting:

- Annual Financial Report for the year ending 30 June 2022;
- Report on the Conduct of the Audit for the year ended 30 June 2022; and
- Engagement Closing Report for the year ending 30 June 2022.

b. Standard financial management reports

The Committee received and noted the information presented in the Financial Management Report – November 2022 regarding:

- Annual Financial Statements for the year ending 30 June 2022;
- Audit Office of NSW Management letter on the final phase of the audit for the year ended 30 June 2022;
- The Quarterly Budget Review report furnished to Council's 19 October 2022 meeting applicable for the quarter ending 30 September 2022; and
- The investment report furnished to Council's 19 October 2022 meeting applicable for the month of 30 September 2022.

c. TCORP Loan Agreement – Waiver

The Committee received an update on the internal review conducted and new processes established to ensure all future Council investments comply with the conditions in TCORP's loan agreement.

In September 2022 the following investments were identified as non-compliant with the terms of the TCORP loan agreement:

- A term deposit of \$500,000 was made with AMP Bank on 30/11/2021 with a maturity date of 29/11/2022, exceeding the 5% counterparty limit and 10% portfolio limit.

- A term deposit of \$500,000 was made with Judo Bank on 30/11/2021 with a maturity date of 22/11/2022, exceeding the \$250,000 counterparty limit.

TCORP provided a waiver period to 29 November 2022 to allow Council to bring its investment portfolio back to a compliant status.

d. Debt Write-Off

The Committee received and noted the factors contributing to a proposed debt write-off of approximately \$18K which is the subject of a separate report to this meeting of council.

The debt is proposed to be written off under the *Local Government (General) Regulation 2021* due to an error in assessment of water usage as a result of a malfunctioning cyble unit.

As outlined in the separate report to council, recourse against the supplier of the cyble unit is limited due to the expiry of the supply contract and the warranty period in respect of the units.

2. Risk and compliance

a. Emergency Management Review and Risk Management Review

An overview of the two process improvement initiatives – the Emergency Management Review and the Risk Management Review – currently being undertaken were provided to the Committee.

Refer to item 1.4.3 of Council's [2022/23 Operational Plan](#) (website link provided) for further details.

b. Organisation Debrief – February / March Flood 2022

The Committee also received a summary of the findings of the organisational debrief conducted following the February/March 2022 flood events and the eight (8) improvement actions recommended. Progress against implementing these recommendations will be reported to the Committee going forward.

➤ What worked well:

- Information Communication Technology redundancy and business continuity plan to restore corporate systems and services;
- Continuation of bulk water supply service delivery;
- Seamless transition to working from home arrangements for office-based staff;
- Dedication and efforts of Council staff and Leadership Team in the response, operations and recovery efforts during the crisis.

➤ Improvement recommendations:

1. Review and update ICT business continuity plans with regard to lessons learnt from the 2022 flood events including improving system redundancy and restoration.
2. Review and update emergency response plans.
3. Review and update business continuity plans.
4. Review and update Dam Safety Emergency Plans.

5. Develop a strategy for proactive communications across mediums to enhance control of internal and external communications.
6. Foster improved relationships with external emergency response agencies with a view to enhancing joint operability.
7. Review minimum chemical and material storage capacity at water treatment plants.
8. Document the procedure for undertaking an organisational debrief following a disruptive event to enhance Council's risk management framework.

c. Evacuation and fire safety compliance

The implementation of an emergency evacuation plan, the completion of several fire safety corrective actions, and delivery of staff training to bring the new Gallans Road site up to standard with legislated Work Health Safety requirements was summarised and reported to the Committee.

3. Governance

a. Post-election compliance requirements

The Committee received a report confirming Council has met the legislative requirement to review and update the following within the first 12 months of a local government election:

- i. Policy on the payment of expenses and provision of facilities to the Chair and councillors;
- ii. Code of Meeting Practice;
- iii. Code of Conduct;
- iv. Council issued delegation to the General Manager; and
- v. Organisation structure.

b. Volunteer floodgate operator program

The Committee received an update on the operation of Council's one section 355 committee – the volunteer floodgate operator program.

Due to the impact of the February / March 2022 flood event many of the volunteers are still living in temporary accommodation and prolonged wet weather means conditions are unfavourable to actively manage floodgates.

Volunteers have indicated that they will be able to reengage with the program in the coming months, and training and recommitment visits will be prioritised. All landowners were previous volunteers, and this is an extension of their roles for which they have previously received training.

4. Audit

The Committee received a presentation from Council's Internal Audit Provider (InConsult) and a copy of the report produced following the completion of the first review within Council's 2022/25 Internal Audit Plan on IT General Controls.

Nine (9) findings and twenty-four (24) recommendations were made. The overall assessment of the current control environment was identified as an 'improvement opportunity' with an overall 'medium' residual risk rating.

The Committee also received the usual progress update in relation to the implementation of outstanding internal and external audit recommendations with the addition of the in-house recommendations made as part of the 2022 Organisation Debrief (refer to item 2(b) above).

5. Digital Transformation and Corporate Systems review

The Committee were provided with a summary of the key findings from a review of Council's corporate systems by an external consultant and the proposed next steps to address these recommendations.

A presentation similar to that provided to councillors at a recent workshop (November 2022) was provided to the Committee on the proposed Digital Transformation Strategy, including the linkage to the corporate systems review outcome.

Consultation

This report was prepared in consultation with the Audit, Risk and Improvement Committee Chairperson.

Conclusion

This report provides a summary of the key messages from the 17 October 2022 and 28 November 2022 Audit, Risk and Improvement Committee meetings and other associated matters.

Attachment

1. Audit, Risk and Improvement Committee meeting minutes 17 October 2022
2. Audit, Risk and Improvement Committee meeting minutes 28 November 2022

Rous County Council

Audit, Risk and Improvement Committee Minutes

Monday, 17 October 2022

Meeting held at Rous Admin Office and via 'Teams' link.

The Chair opened the meeting at 10.03am

In attendance:

Voting Committee

- ≠ Brian Wilkinson (Independent member / Chair)
- ≠ Andrew MacLeod (Independent member)
- ≠ Cr Big Rob (Council member)

Rous County Council staff

- ≠ Phil Rudd (General Manager)
- ≠ Helen McNeil (Group Manager People and Performance)
- ≠ Geoff Ward (Group Manager Corporate and Commercial)
- ≠ Guy Bezrouchko (Project Manager – Relocation and Properties)
- ≠ Andrew Logan (Group Manager Planning and Delivery)
- ≠ Lauren Edwards (Governance and Risk Manager)
- ≠ Jonathan Patino (Finance Business Partner)
- ≠ Joe Yeadon (ICT Manager)
- ≠ Aaron McBride (Enterprise Risk Manager)

Other attendees

- ≠ Richard Watkinson (Thomas, Noble & Russell) via 'Teams'
- ≠ Mitchell Morley (InConsult) (via 'Teams') via 'Teams'

1. APOLOGIES

Nil.

2. ACKNOWLEDGEMENT OF COUNTRY

Council showed its respect and acknowledged the Traditional Custodians of the Land, of all Elders, on which this meeting took place.

3. MINUTES OF PREVIOUS MEETING

Minutes of the meeting held 25 July 2022 were noted as presented.

4. DISCLOSURE OF INTEREST

Nil.

ALTERING ORDER OF BUSINESS

RECOMMENDATION (Rob/Wilkinson) that the Order of Business be altered to debate the Late Reports:

- i). Financial Management report – October 2022.
- ii). Annual Financial Report and Auditor Report for the Year Ending 30 June 2022.

6.8 Financial management report – October 2022

RECOMMENDATION (Wilkinson/Rob) that the Audit, Risk and Improvement Committee receive and note the information presented in the Financial management report – October 2022 regarding:

1. The Preliminary 2021/22 End of Year Financial Summary and Budget Carry Forwards report furnished to Council's August 2022 meeting applicable for the month of 31 July 2022.
2. The investment report furnished to Council's August 2022 meeting applicable for the month of 31 July 2022.

6.9 Annual Financial Reports and Audit Reports for year ending 30 June 2022

RECOMMENDATION (Wilkinson/MacLeod) that the Committee:

1. Receive and endorse the draft 'Annual Financial Statements for the year ended 30 June 2022' and the NSW Audit Office draft 'Report on the Conduct of the Audit for the year ended 30 June 2022' to Rous County Council for adoption, subject to any material changes.
2. Receive and note the NSW Audit Office 'Engagement Closing Report for the year ended 30 June 2022'.

5. ARIC SCHEDULE OF REPORTING

ARIC Schedule of Reporting was noted.

6. REPORTS

6.1 Risk and Compliance

RECOMMENDATION (Rob/MacLeod) that the Audit, Risk and Improvement Committee receive and note the information presented in the report regarding enterprise risk management and emergency management.

6.2 Health Safety and Environment update

RECOMMENDATION (Rob/MacLeod) that the Audit, Risk and Improvement Committee receive and note the information presented in the report regarding health, safety and environment matters.

6.3 Strategy Implementation

RECOMMENDATION (Rob/MacLeod) that the Audit, Risk and Improvement Committee receive and note:

1. Performance against delivery of the actions for Year 5 of the combined Delivery program/Operational plan for the period 1 January 2022 to 30 June 2022.
2. The new 3-year Integrated Planning and Reporting Framework (incorporating the 2022/23 Budget and 'Revenue' policy).

6.4 Audit

RECOMMENDATION (Rob/McLeod) that the Audit, Risk and Improvement Committee receive and note the information presented in the report on the:

1. Commencement of the IT General Controls internal audit.
2. Progress against actions arising from internal audits.
3. Progress against actions arising from external audits.

6.5 Service reviews

RECOMMENDATION (MacLeod/Rob) that the Audit, Risk and Improvement Committee note the information provided in the report regarding the changes made to the organisation structure due to the closure of the Richmond Water Laboratories.

6.6 Corporate Systems Review

RECOMMENDATION (Wilkinson/Rob) that the Audit, Risk and Improvement Committee:

1. Receive and note the findings of the 'Corporate Systems Review'.
2. Receive and note the proposed 'Digital Transformation' next steps.

6.7 ICT Business Plan 2019 – 2021 Final Status

RECOMMENDATION (Wilkinson/Rob) that the Audit, Risk and Improvement Committee receive and note the information presented in the report regarding the closure and completion of the ICT Business Plan 2019-2021, including the treatment of outstanding items.

6.8 Annual Financial Report and Audit Report for year ending 30 June 2022

Report dealt with earlier in the meeting.

6.9 Financial management report – October 2022

Report dealt with earlier in the meeting.

6.10 Meeting schedule for 2023

RECOMMENDATION (MacLeod/Rob) that the Committee confirm meeting dates for 2023 as: 27 February; 22 May; 24 July; 16 October (financial statements) and 27 November commencing at 10.00am.

6.11 Other matters

RRECOMMENDATION (Rob/MacLeod) that the Audit Risk and Improvement Committee receive and note the information contained in this report.

7. OTHER BUSINESS ARISING

Nil.

8. CONFIRMATION OF MINTUES

i). Audit, Risk and Improvement Committee meeting minutes 17 October 2022

RECOMMENDATION (Rob/MacLeod) that the minutes of the Audit, Risk and Improvement Committee of 17 October 2022 be accepted as presented.

9. NEXT MEETING

28 November 2022 commencing 10am.

10. CLOSE OF BUSINESS

There being no further business the meeting closed at 11.43am

Rous County Council

Audit, Risk and Improvement Committee Minutes

Monday, 28 November 2022

1. MEETING OPENING

Meeting held at Rous Admin Office and via 'Teams' link.

The Chair opened the meeting at 10.00am

In attendance:

Voting Committee

- Brian Wilkinson (Independent member / Chair)
- Andrew MacLeod (Independent member)
- Cr Big Rob (Council member)

Rous County Council staff

- Phil Rudd (General Manager)
- Helen McNeil (Group Manager People and Performance)
- Geoff Ward (Group Manager Corporate and Commercial)
- Guy Bezrouchko (Project Manager – Relocation and Properties) - via Teams
- Lauren Edwards (Governance and Risk Manager)
- Jonathan Patino (Finance Business Partner)
- Joe Yeadon (ICT Manager) - via Teams
- Aaron McBride (Enterprise Risk Manager) - via Teams
- Noeline Smith (Minute Taker)

Other attendees

- Mitchell Morley (InConsult) - via 'Teams'

Apologies

- Andrew Logan (Group Manager Planning and Delivery)
- Richard Watkinson (Thomas, Noble & Russell)
- Ben Rogers (Thomas Noble & Russell)

2. ACKNOWLEDGEMENT OF COUNTRY

Rous County Council acknowledges the Traditional Custodians of the land upon which we work and live. We pay our respects to the Elders of the past, present and emerging and acknowledge their continuing connection to Council who will guide us on our shared journey to the future.

ALTERING ORDER OF BUSINESS

It was agreed the presentation of the Audit report by Mitch Morley, InConsult (Item 6.1 of the agenda) be brought forward.

Mr Morley presented on the *Internal Audit Report – IT General Controls* report.

The Chair thanked Mr Morley for providing the Committee with an overview of the Internal Audit Report.

3. MINUTES OF PREVIOUS MEETING

Minutes of the meeting held 17 October 2022 were noted as presented.

4. DISCLOSURE OF INTEREST

Nil.

ARIC SCHEDULE OF REPORTING

ARIC Schedule of Reporting tabled for information.

5. PRESENTATION

Group Manager Corporate and Commercial, Geoff Ward, presented on the *Digital Strategy and Digital Transformation* (refer Item 6.3 of the Agenda).

6. REPORTS

A presentation on the following item was given to the Committee by Mitch Morley, InConsult, earlier in the meeting.

6.1 Audit

RECOMMENDATION (Wilkinson/MacLeod) that the Audit Risk and Improvement Committee receive and note the information contained in the report.

6.2 Risk and Compliance

RECOMMENDATION (MacLeod/Rob) that the Audit, Risk and Improvement Committee receive and note the information presented in this report regarding enterprise risk management and emergency management.

A presentation on the following item was given to the Committee by Group Manager Corporate and Commercial, Geoff Ward, earlier in the meeting.

6.3 Digital Strategy and Digital Transformation

RECOMMENDATION (Rob/MacLeod) that ARIC note the Digital Strategy and introduction to Digital Transformation as presented.

6.4 Governance

RECOMMENDATION (Rob/MacLeod) that the Audit, Risk and Improvement Committee:

1. Receive and note the information presented in this report on:
 - a. Policy and delegations review status.
 - b. The governance of Council's section 355 Committee.

6.5 Financial Management Report

RECOMMENDATION (Wilkinson/Rob) that the Audit, Risk and Improvement Committee receive and note the information presented in the Financial Management Report – November 2022 regarding:

1. Annual Financial Statements for year ending 30 June 2022.
2. Audit Office of NSW Management letter on the final phase of the audit for year ended 30 June 2022.
3. The Quarterly Budget Review report furnished to Council's October 2022 meeting applicable for the quarter ending 30 September 2022.
4. The Investment report furnished to Council's October 2022 meeting applicable for the month of 30 September 2022.

6.6 TCorp Loan Agreement - Waiver of Breach

RECOMMENDATION (Rob/MacLeod) that the Committee receive and note the information contained in the report on the breach of TCorp lending requirements and the additional controls staff have put in place to prevent this happening in the future.

6.7 Retail Water Bad Debt Write-off

RECOMMENDATION (Wilkinson/Rob) that the Committee note the following:

1. A request for the write-off of \$18,240.79 in water charges from the SES Capital Pty Ltd water account in relation to the property at 61 Caniaba Road, Loftville due to the reasons outlined in the report.
2. A report recommending the write-off will be submitted to Council at the 14 December 2022 Council meeting.

6.8 Other matters

RRECOMMENDATION (MacLeod/Rob) that the Audit Risk and Improvement Committee receive and note the information contained in the report.

OTHER BUSINESS ARISING

General Manager advised in relation to review of senior staff contracts.

CONFIRMATION OF MINTUES

i). **Audit, Risk and Improvement Committee meeting minutes 28 November 2022**

RECOMMENDATION (MacLeod/Rob) that the minutes of the Audit, Risk and Improvement Committee of 28 November 2022 be accepted as presented.

NEXT MEETING

27 February 2023 commencing 10.00am.

CLOSE OF BUSINESS

There being no further business the meeting closed at 11.20am.

Licence Agreement: Ngulingah Local Aboriginal Land Council - Level 2, 218-232 Molesworth Street, Lismore

Responsible Officer: General Manager (General Manager)

Recommendation

That Council receive and note the contents of this report.

Background

Council resolved [71/22] on 19 October 2022 as follows:

1. *Agree to not sub-let the former NRMA space on Level 2 Molesworth Street for the remainder of Rous' approximate 18 months on the site.*
2. *Approve the use of a portion of the budget allocation for the former RCEIC for 2022/23 to establishing this new space in the shopfront area on Level 2 as an engagement space across Rous's respective service delivery areas.*

Ngulingah Local Aboriginal Land Council ('Ngulingah') subsequently reached out to council to seek the use of the former NRMA space on level 2 of the Administration building as their own premises in Lismore were significantly damaged in the February/March 2022 floods and remain unusable.

This request was received and considered in the same way as the request from Ballina Shire Council for the flood distribution hub in the information building at the Gallans Road site.

Proposed non-exclusive licence

An 'in-principle' agreement has been reached for the occupation of the back portion of the area previously occupied by NRMA and Richmond Water Laboratories (RWL) by Ngulingah under a non-exclusive licence arrangement.

As the proposed arrangement is for the non-exclusive use of the premises and will not impact on the availability of the shopfront area for an engagement space, staff have assessed that a licence agreement, as opposed to a lease, would meet Ngulingah's particular needs without disrupting the effect and intention of the October 2022 resolution.

It is anticipated that the licence fees generated from this arrangement will offset the gap in expenses associated with restoring the space to its pre-flood condition. The licence will also provide for a contribution from Ngulingah towards the costs of maintaining the shared facilities on Level 2 of the building.

The licence will be drafted to ensure that the term of the agreement aligns with Rous' head lease so that it will expire upon Rous' relocation to Gallans Road in late 2023/early 2024.

Governance

- **Integrated Planning and Reporting**

Ref	Delivery objectives	2022-23 actions	What is being measured	Target	Who
4.1	Be recognised for leadership in what we do				
4.1.1	Embed reconciliation in Rous's culture through its people and partners.	Undertake scheduled 2022-23 actions of the Reconciliation Action Plan.	% of scheduled actions completed.	At least 90%.	Catchment and Cultural Awareness Manager.

- **Finance**

The 2022/23 forecast rental income for the old NRMA and RWL spaces is \$76,000 per annum.

A recent review of the market estimated expected rental income of the space at \$60,000 per annum.

Staff are negotiating a licence fee with Ngulingah of approximately 70% of the current market rental estimate plus outgoings.

This amount is considered appropriate given the relatively short term of the licence and the need for Ngulingah to meet any initial establishment costs.

- **Legal**

Contained in the body of the report – a licence conveys a contractual right for the non-exclusive occupation of the premises compared to a lease which conveys an exclusive interest in part of the land.

Consultation

Consultation has occurred between relevant Rous staff and Ngulingah staff, as well as the building owner. As the licence is a short term, non-exclusive use, no additional external consultation was deemed necessary.

Conclusion

The use of the former NRMA and RWL spaces is consistent with Rous' position in supporting other organisations with post flood recovery. The licence fees generated will assist in meeting the shortfall in repair and reinstatement costs, and provide much needed practical assistance to Ngulingah.

Disclosure of Interest Returns

Responsible Officer: General Manager (Phillip Rudd)

Recommendation

That the report be received and noted.

Background

Councillors and designated persons are required under clause 4.21 of the Code of Conduct to lodge a completed Disclosure of Interest within three months of the end of the financial year.

It is also a requirement that the Register of Returns is tabled at the first meeting following the lodgement date. Accordingly, the Register of Returns is now tabled as a public record and is available for inspection.

Draft Far North Coast Regional Water Strategy - shortlisted actions – consultation paper – Council submission

Responsible Officer: Group Manager Planning and Delivery (Andrew Logan)

Recommendation

That Council receive and note the attached submission on the draft *Far North Coast Regional Water Strategy: Shortlisted Actions – consultation paper*.

Background

The draft *Regional Water Strategy Far North Coast: Shortlisted Actions – Consultation Paper* has been released by the NSW Government for a second round of public exhibition, with submissions closing on 11 December 2022.

Due to the closing date for submissions, the intention of this report is to table the Council's submission that has been provided to Department of Planning and Environment – Water.

The NSW Regional water strategies are seeking to use a consistent approach across the State to evaluate the opportunities and threats so actions can be implemented that balances the needs of different water users and delivers the right outcomes, for the environment, communities and businesses across NSW.

The Strategy acknowledges that there is a different underlying approach to service levels used to determine regional actions and priorities to that which is required by Local Water Utilities for the provision of town water supply. The method that has been used in the draft Strategy was to ensure a consistent approach across the state for both urban and non-urban water resources, in the context of assessing regional opportunities and priorities.

The Strategy was not intended to replace the Local Water Utilities strategic planning process. However, the difference and relevance of these differing approaches may not be apparent to the broader community on reading the draft Strategy.

The draft Strategies', priorities and associated actions, will form the basis for a future regional water strategy implementation plan. Council's submission focuses on ensuring that these priorities deliver tangible benefits and outcomes for both the environment and our community.

Consultation

The attached submission on the draft *Far North Coast Regional Water Strategy: Shortlisted Actions – Consultation Paper* has been prepared in consultation with the General Manager, relevant Group Managers, staff and Councillors.

Conclusion

This report provides an opportunity for Council's submission on the Far North Coast Regional Water Strategy: Shortlisted Actions – Consultation Paper to be made publicly available.

Attachment

1. Rous County Council submission on the Regional Water Strategy for the Far North Coast: Shortlisted Actions – Consultation Paper dated 9 December (**Note this will be tabled as a late item prior to the meeting**)

Confidential matters

Responsible Officer: General Manager (Phillip Rudd)

Recommendation

That Council move into Closed Council to consider the following matter and the meeting be closed to members of the public and press based on the grounds detailed below:

Report

Future Water Project 2060 Stage 1 – Woodburn Groundwater Scheme land matters

Grounds for closure

Section 10A(2)(d) commercial information of a confidential nature that would, if disclosed:
(ii) confer a commercial advantage on a competitor of the Council.

Section 10A, Local Government Act, 1993:

A Council may close to the public only so much of its meeting as comprises the receipt or discussion of any of the following:

Section 10A(2):

- (a). personnel matters concerning particular individuals (other than councillors),
- (b). the personal hardship of any resident or ratepayer,
- (c). information that would, if disclosed, confer a commercial advantage on a person with whom the Council is conducting (or proposes to conduct) business,
- (d). commercial information of a confidential nature that would, if disclosed:
 - i) prejudice the commercial position of the person who supplied it, or
 - ii) confer a commercial advantage on a competitor of the Council, or
 - iii) reveal a trade secret,
- (e). information that would, if disclosed, prejudice the maintenance of law,
- (f). matters affecting the security of the council, councillors, council staff or council property,
- (g). advice concerning litigation, or advice that would otherwise be privileged from production in legal proceedings on the ground of legal professional privilege,
- (h). information concerning the nature and location of a place or an item of Aboriginal significance on community land.

Section 10A(4):

Council may allow members of the public to make representations to or at a meeting before any part of the meeting is closed to the public, as to whether that part of the meeting should be closed.

Document is Restricted

Document is Restricted