



Final Service and Performance Plan 2023

Burdekin Haughton Distribution Service Contract

13 December 2023

Contents

At a glance.....	2
Introduction	4
Delivering services to our customers	5
Cost of delivering services—Operating expenditure	8
Electricity in focus	9
Cost of delivering services—Renewals annuity and non-annuity funded expenditure	11
Comparison of forecast and actual annuity-funded projects for 2022-23 .	13
Annuity-funded projects for 2023-24 and 2024-25.....	16

This Service and Performance Plan has been prepared by Sunwater to provide indicative information to our customers for the purpose of consultation. It contains estimates and forecasts which are based upon a number of assumptions. The actual financial performance of the service contract to which this plan relates, and the operations and activities actually undertaken by Sunwater during the relevant periods, may vary materially from the information contained in this plan. This plan should not be relied upon beyond its purpose as a tool for consultation and you should not rely on the information contained in this plan in making decisions about your circumstances. Sunwater will not be responsible or liable for any loss (including consequential loss), claim or damage (including in tort) that is in any way connected with the use of this plan or the information contained within it.

At a glance

Our customers

Customers in this service contract primarily produce sugar cane, high value crops and sandalwood.

Our irrigation charges

Table 1 - Irrigation charges for 2023-24

Charges by tariff group 2023-24							
Burdekin channel		Irrigation charge ²		Cost-reflective charge ³		Δ to cost reflective	
Burdekin channel	Part C	\$38.14	\$/ML	\$45.87	\$/ML	-\$7.73	\$/ML
	Part D	\$20.68	\$/ML	\$24.88	\$/ML	-\$4.2	\$/ML
Giru Groundwater Area	Part C	\$22.33	\$/ML	\$45.87	\$/ML	-\$23.54	\$/ML
	Part D	\$13.66	\$/ML	\$24.88	\$/ML	-\$11.22	\$/ML
Glady's Lagoon – Other than natural yield	Part C	\$38.14	\$/ML	\$45.87	\$/ML	-\$7.73	\$/ML
	Part D	\$20.68	\$/ML	\$24.88	\$/ML	-\$4.20	\$/ML

- This table includes distribution charges only. For bulk water charges, please refer to the Bulk Water Service Contract S&PP.
- Includes the Queensland Government's 15 per cent discount for irrigation customers. Refer to www.rdmw.qld.gov.au for more information.
- Is the cost-reflective price determined by the Queensland Competition Authority (QCA) in its 2020–2024 irrigation price investigation. Costs reflect lower bound cost recovery, i.e., recovery of future replacement and ongoing maintenance and operations.

For more information on Sunwater's fees and charges, refer to:

www.sunwater.com.au/customer/fees-and-charges/

Our performance



Operations and maintenance costs

		QCA \$'000	Sunwater \$'000	Δ to QCA	
Actual	2022-23	\$18,699.4	\$17,294.5	-7.5%	▼
Forecast	2023-24	\$19,081.6	\$17,916.7	-6.1%	▼



Expenditure funded by the annuity

		QCA \$'000	Sunwater \$'000	Δ to QCA	
Actual	2022-23	\$1,304.6	\$1,917.1	46.9%	▲
Forecast	2023-24	\$1,301.6	\$2,986.5	129.4%	▲
Actual + Forecast	Σ Price path	\$6,326.1	\$9,192.9	45.3%	▲

▲	△	◄	▽	▼
10% above the QCA target	5% above the QCA target	In line with the QCA target	5% below the QCA target	10% below the QCA target

Water delivered	Total		To irrigators		YoY change by group
2021-22	303,334	ML	255,565	ML	
2022-23	212,101	ML	172,077	ML	
	-30.1%	▼	-32.7%	▼	

▲	◄	▼
5%	0%	-5%



Service targets

	Exceedances	Notes
2021-22	0	Unplanned shutdowns (duration) and maximum number of interruptions were not met.
2022-23	1	Unplanned shutdowns (duration) and maximum number of interruptions were not met.

Introduction

This Service and Performance Plan (S&PP) details a range of proposed scheme activities and projects and presents a breakdown of anticipated costs for review. It also sets out Sunwater's actual costs for 2022-23.

The purpose of this year's S&PP for Burdekin Haughton Distribution is to:

- examine Sunwater's performance in 2022-23 against cost and service targets
- present to customers Sunwater's projected costs¹ for 2023-24 and 2024-25
- consult with our customers on forecast operating and annuity-funded costs for 2023-24 and the forward program of works

In addition to this S&PP, Sunwater submitted its irrigation pricing proposal to the Queensland Competition Authority (QCA) on 30 November 2023 which explains the types of costs we incur in delivering water to our customers and how those costs are allocated to service contracts. The pricing proposal and associated customer material is available at: www.sunwater.com.au/projects/price-path/.

Input from customers is a valuable part of Sunwater's planning process and ensures that we invest in areas which support the services we provide to customers.

Sunwater engages with its customers both formally and informally throughout the year and customer feedback is a valuable part of our planning process.

The publication of an annual S&PP is an important part of the formal feedback process, providing a snapshot of Sunwater's performance over the most recently completed financial year, as well as an outline of the areas of focus for the current year.

We welcome and encourage your feedback on this S&PP. To have your say, please contact us via email or post:

Email: sppfeedback@sunwater.com.au

Post: S&PP Feedback

PO Box 15536

City East Qld 4002

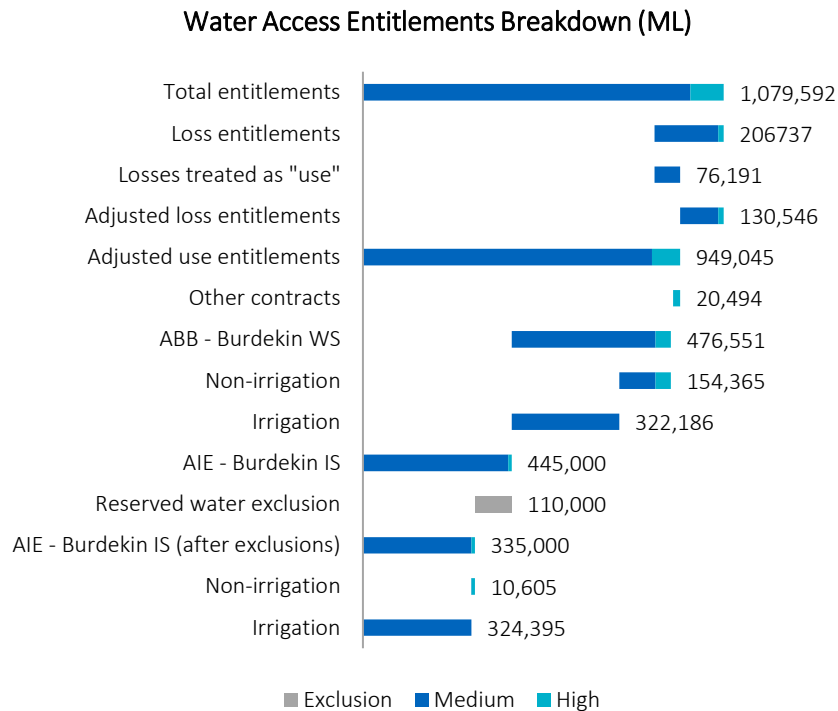
¹ All financial figures reported in this document are in nominal dollars, i.e. dollars of the day. Figures may not sum due to rounding.

Delivering services to our customers

Entitlements

The water entitlements (adjusted for pricing purposes) for each customer segment are shown below.

Figure 1 - Water access entitlements (as of 30 June 2023)

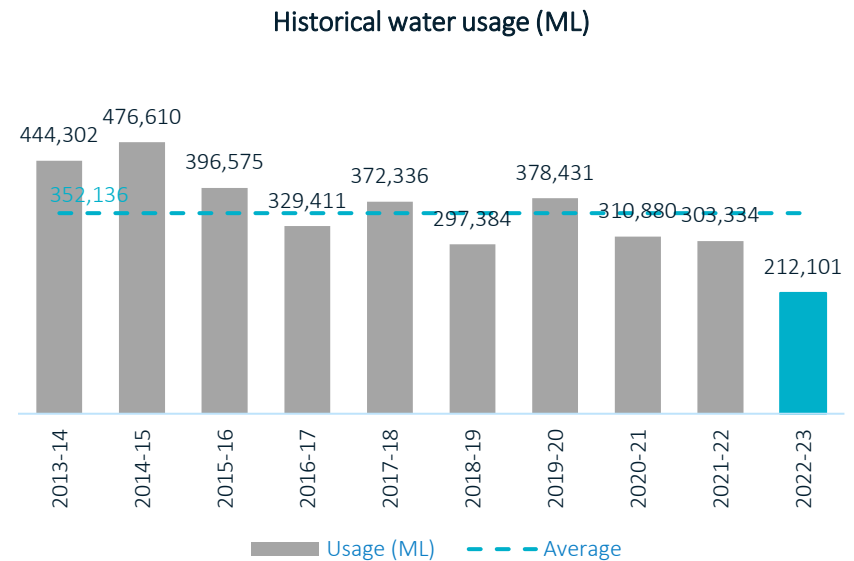


1. Includes the bulk water supply scheme, the distribution system, Burdekin Town Water and Burdekin Moranbah Pipeline.
2. Reserved water exclusion is held in reserve for the Townsville Thuringowa Water Supply Joint Board.

Historical water usage

The chart below shows annual water usage for the past 10 years.

Figure 2 - Historical water usage for the past 10-years includes groundwater usage.



- Usage in 2022-23 was the lowest level in the past 10-year period.
- Part D prices for the current period were set using a 20-year average of 346,960 ML.

Service targets

Sunwater and customers have agreed Water Supply Arrangements and Service Targets for Burdekin Haughton Distribution. Table 2 sets out our recent performance against selected service targets for this scheme.

In 2022-23, the unplanned shutdown (duration) service target was exceeded once. The unplanned event was due to an electrical shutdown, that was outside Sunwater’s control.

Table 2 - Scheme service targets and performance

Service target		Target	Number of exceptions		
			2020-21	2021-22	2022-23
Planned shutdowns – notification	For shutdowns planned to exceed 2 weeks	8 weeks	0	0	0
	For shutdowns planned to exceed 3 days	2 weeks	0	0	0
	For shutdowns planned to be less than 3 days	5 days	0	0	0
Unplanned shutdowns – duration ¹	Unplanned shutdowns during Peak Demand Period	48 hours	0	0	1
	Unplanned shutdowns outside Peak Demand Period	5 working days			
Maximum number of interruptions ²	Planned or unplanned interruptions per water year	10	2	0	0

1. This is the number of times that the unplanned shutdown has exceeded the shortest of the peak/off peak periods.
2. This is the total number of distribution customers in the scheme that have been interrupted in excess of the target.

In addition, Sunwater has company-wide customer interactions service targets. Our performance in 2022-23 against these service targets is shown in Table 3.

Table 3 - Customer interactions service targets and performance

Service target	Target	2022-23
Telephone answering ¹	80.00%	92.50%
Requests actioned within Service Level Agreement (SLA) timeframes ²	> 95.00%	99.47%

1. This target measures the percentage of 13 15 89 calls that are answered within 60 seconds.
2. This target measures the percentage of email or workflow requests (such as property transfers and temporary transfers) to the Customer Support team that are completed within the agreed SLAs.

Key infrastructure

Table 4 lists the key infrastructure used to deliver distribution services to our customers in Burdekin Haughton. We also maintain a large network of channels and a balancing storage.

Table 4 - Key infrastructure

Asset	Description	Capacity
Giru Weir	Earth and cemented rock fill between two parallel rows of sheet piling. 1 pump 1 pump	1025 ML
Healeys Pump station		90ML/day (or Gravity at 28ML/Day)
Reed Bed pump station		15ML/day (or Gravity 10ML/Day)
Val Bird Weir	Stepped sheet piling.	615 ML
Clare A pump station	Four pumps.	127 ML/day
Clare B pump station	Four pumps.	159 ML/day
Clare B8 relift pump station	Two pumps.	18 ML/day & 7ML/Day (cannot run both pumps at once)
Dalbeg A pump station	Three pumps.	62 ML/day
Dalbeg B pump station	Two pumps.	60 ML/day
Dalbeg relift pump station	Two pumps.	16 ML/day
Elliot pump station	Three pumps.	180 ML/day
Millaroo A pump station	Four pumps.	250 ML/day
Millaroo B pump station	Three pumps.	90 ML/day
Millaroo relift pump station	Two pumps.	30 ML/day
Tom Fenwick pump station	Consists of Six pump stations.	600 ML/day (pump station 1-1 & 1-2) 1180 ML/day (pump station 2 & 3) 1180 ML/day (pump station 4 & 5)

Cost of delivering services—Operating expenditure

Operating expenditure includes funds for: operations activities, (i.e., operations, electricity, and insurance); preventative maintenance; and corrective maintenance.

Table 5 sets out actual and forecast operating expenditure for Burdekin Haughton Distribution.

As Burdekin Distribution is one of our high electricity consuming schemes this category is discussed on the following page.

Our performance in 2022-23

In 2022-23, operating costs were lower than the QCA’s recommended cost target. Further information is provided in the pricing proposal and associated scheme summaries.

Outlook for 2023-24

Burdekin Haughton Distribution Service Contract’s total operations budget in 2023-24 is 6.1 per cent below the QCA’s recommended cost target. Insurance is one of Sunwater’s largest expenditure items. These costs have increased significantly in recent years due to multiple flood events in Queensland and global insurable events impacting premiums. The escalation of insurance premiums has directly contributed to the rise in Sunwater's operating expenditure.

Sunwater’s primary focus in 2023-24 is continuing the implementation of preventative maintenance strategies to enhance the overall reliability of our assets. By proactively identifying and addressing potential issues before they lead to breakdowns, Sunwater aims to minimize downtime and ensure optimal performance.

Table 5 - Operating expenditure¹

	2022-23 actuals \$'000			2023-24 forecast \$'000		
	QCA	Sunwater ³	Δ to QCA	QCA	Sunwater ³	Δ to QCA
Insurance	\$641.0	\$736.6	14.9% ▲	\$655.7	\$887.6	35.4% ▲
Electricity	\$5,474.2	\$3,372.1	-38.4% ▼	\$5,538.9	\$3,862.8	-30.3% ▼
Operations & maintenance	\$7,062.9	\$8,359.9	18.4% ▲	\$7,232.3	\$8,169.2	13.0% ▲
Support costs	\$5,521.4	\$4,825.9	-12.6% ▼	\$5,654.7	\$4,997.2	-11.6% ▼
Total opex²	\$18,699.4	\$17,294.5	-7.5% ▼	\$19,081.6	\$17,916.7	-6.1% ▼

▲	△	◄►	▽	▼
10% above the QCA target	5% above the QCA target	In line with the QCA target <5%	5% below the QCA target	10% below the QCA target

1. Reflects the QCA’s 2020–2024 irrigation price investigation final recommendations. Excludes recreational facility costs.
2. From 1 July 2020, irrigation customers no longer contribute towards the cost of operating and maintaining recreational facilities. These costs have been excluded from the total operating expenditure.
3. Sunwater’s 2022-23 actual expenditure figures presented in this table are pre-adjustment and will differ from our Irrigation Pricing Proposal and its engagement materials. Sunwater’s 2023-24 figures align with our pricing submission, these figures may differ from the budget.

Electricity in focus

Our performance in 2022-23

Sunwater continues to proactively manage the cost of electricity. In 2022-23, Sunwater undertook the following energy improvement initiatives in Burdekin Haughton Distribution:

- a review of our electricity tariff selections to ensure that we are using the most cost-effective tariffs. The review focused on pump stations subject to regulated retail tariffs. Tariff changes occurred in 2022-23, resulting in an average cost increase from 20.32c/kWh to 22.22c/kWh. Five pump stations transitioned to the wholesale market agreement, which reduced the average increase by 1.98c/kWh. The remaining pump stations subject to retail regulated tariffs now represent approximately 6.5% of total electricity costs.

The notified pricing published by the Queensland Competition Authority for 2022-23² estimated electricity cost increases of 10%-21%².

- Continue with Operational Electricity Dashboard Reporting, regularly monitoring key electricity metrics to identify efficiency opportunities.

Outlook for 2023-24

In 2023-24, Sunwater will continue our focus on managing the cost of electricity in this service contract. The following energy improvement initiatives are currently planned:

- annual tariff optimisation analysis of pump stations resulted in tariff changes for the pump stations subject to regulated retail tariffs, resulting in an average cost decrease from 27.08c/kWh to 26.62c/kWh. A network reclassification occurred for one of the pump stations from large to small, which means the eligible tariffs have changed in alignment. Remaining on a large, regulated retail tariff would have increased the average cost by 4.79c/kWh.

The variability in water demand for operating this scheme results in the pump station being reclassified between a small standard asset customer (SAC) and a large SAC when the rolling 12-month average consumption is above or below 100,000kWh. Sunwater and Ergon Network can initiate this change and Sunwater proactively monitors consumption to ensure optimal tariff selection.

The notified pricing published by the Queensland Competition Authority for 2023-24 estimated electricity cost increases of 14% -27%³.

- Annual solar assessment
- monitoring of asset energy operational performance.

² [Regulated retail electricity prices in regional Queensland 2022-23 \(qca.org.au\)](https://www.qca.org.au/regulation/regulated-retail-electricity-prices-in-regional-queensland-2022-23)

³ [Regulated retail electricity prices in regional Queensland 2023-24 \(qca.org.au\)](https://www.qca.org.au/regulation/regulated-retail-electricity-prices-in-regional-queensland-2023-24)

Table 6 - Electricity Tariff Arrangements

Pump Stations	2023-24
Tom Fenwick	Contestable
Clare A	Contestable
Clare B	Contestable
Clare Relift	T22C
Dalbeg A	Contestable
Dalbeg B	T44
Dalbeg Relift	T22C
Elliott 1&2	Contestable
Elliott 3	T22C
Millaroo A	Contestable
Millaroo B	Contestable
Millaroo Relift	T22C
Healey's Lagoon	T20
Reedbeds	T20

1. The regulated retail tariff is subject to change with variations in customer water demand or operational requirements.
2. At the time of this report the tariff analysis for the contestable market is in progress.
3. Energy rates have been negotiated as part of the electricity supply contract and are commercial in confidence as Sunwater is subject to a confidentiality agreement.

Electricity metrics

Table 7 sets out electricity usage and efficiency-related information for Burdekin Houghton Distribution.

Table 7 - Electricity usage and efficiency-related metrics

Metric	2019-20	2020-21	2021-22	2022-23
Electricity usage (kWh) – pump stations	29,398,837	24,475,317	24,567,538	19,511,736
Volume pumped (ML)	388,022	331,212	326,167	273,599
Water usage (ML) ¹	378,431	310,880	303,334	220,691
Actual electricity cost (\$)	5,049,211	3,628,567 ²	4,160,529	3,371,951
Actual electricity cost per ML (\$/ML delivered)	13.34	11.67	13.72	15.28
Average pump energy indicator ³ (kWh/ML/per metre of head)	3.90	3.75	3.77	3.56

1. Includes distribution losses.
2. This differs to the figure recorded in Sunwater's financial accounts (see Table 7), due to an error in electricity metering data. Sunwater received a credit from our electricity retailer in September 2021, which will be captured in the 2021/22 financial accounts. The figure presented in this table reflects the 2020/21 electricity costs less the credit amount.
3. The industry guidelines are 3.4 to 4.5, depending on the size and design of the pump station with the benchmark for larger pump stations being more efficient.

Cost of delivering services—Renewals annuity and non-annuity funded expenditure

Renewals discussion

Sunwater recovers expenditure required to renew (maintain the current level of service an asset provides) its assets via a renewals annuity. The annuity treats all renewals related expenditure as an expense (i.e., not capital) and amortises a multi-year expenditure forecast (30-years) such that the amount customers pay is smoothed, relative to the actual expenditure profile. Negative opening balances reflect expenditure incurred by Sunwater which has not yet been recovered via the annuity contribution amount, while positive opening balances reflect expenditure which has been pre-recovered via the annuity contribution amount. Forecast annuity balances, and the impacts of budgeted spend, are shown in Table 8 below.

The QCA and Sunwater closing balances differ due to differences in the expenditure profile allowed by the QCA in its 2020-24 final recommendations and actual expenditure incurred by Sunwater in 2022-23 and what we expect to spend in 2023-24.

Annuity-funded expenditure includes funds for planned corrective maintenance (PCM), as well as large, one-off operations activities. Activities include monitoring of the asset condition to inform when an asset needs to be refurbished or replaced under the PCM program.

Non-annuity funded expenditure largely relates to Sunwater’s Dam Improvement Program and recreational facility costs.

Our performance in 2022-23 Performance against the QCA target

Sunwater updates our program of works based on our whole-of-life replacement and maintenance strategy, which looks at the risk and condition of each asset and uses this information to estimate the future work required to ensure the asset will continue to provide the required level of service into the future. Other factors such as changes in project delivery timing (e.g. due to weather) may also affect the program of works.

These factors mean the actual program of works delivered in any given year will differ to the program assessed by the QCA. At a project level, cost variances may also occur due to changes in the scope of work and cost inputs.

Further explanation of our performance is provided in the pricing submission and scheme summaries.

Project level cost variances

Table 9 provides a comparison of the annuity-funded projects planned for 2022-23 and the actual projects undertaken, together with justification for the variances.

Outlook

Details of the major annuity-funded projects planned for the 2023-24 to 2024-25 period are set out in Table 10.

Table 8 - Annuity and non-annuity funded expenditure and roll forward ¹

Annuity funded expenditure (and roll forward)											
	2022-23 actuals \$'000					2023-24 forecast \$'000					
		QCA ²		Sunwater ⁴	Δ to QCA		QCA ²		Sunwater ⁴	Δ to QCA	
Opening balance	<i>O</i>	\$6,722.8	➔	\$5,930.2	-11.8%	▼	\$7,866.1	➔	\$6,426.4	-18.3%	▼
Annuity funded expenditure	<i>E</i>	\$(1,304.6)	➔	\$(1,917.1)	46.9%	▲	\$(1,301.6)	➔	\$(2,986.5)	129.4%	▲
Annuity revenue ³	<i>R</i>	\$2,154.0	➔	\$2,154.0	-	-	\$2,096.5	➔	\$2,096.5	-	-
Interest	<i>I</i>	\$293.9	➔	\$259.3	-	-	\$343.9	➔	\$281.0	-	-
Closing balance	<i>C</i>	\$7,866.1	➔	\$6,426.4	-18.3%	▼	\$9,004.9	➔	\$5,817.4	-35.4%	▼
<i>C = (O + E + R + I)</i>											
Other expenditure (not part of prices)											
Dam improvement program		-		\$0.0	-		-		\$0.0	-	
Recreational facility projects ¹		-		\$0.0	-		-		\$0.0	-	
Metered offtakes and dividend reinvestment		-		\$538.8	-		-		\$0.0	-	

▲	△	◄►	▽	▼
10% above the QCA target	5% above the QCA target	In line with the QCA target <5%	5% below the QCA target	10% below the QCA target

1. Forecast annuity-funded costs from 2020-21 exclude recreational facility projects.
2. Reflects the QCA's 2020–2024 irrigation price investigation final recommendations.
3. The annuity contribution is included in the prices paid by bulk water and distribution customers. From 2020-21 to 2023-24, the annuity contribution is based on the QCA's irrigation price investigation 2020–2024 final recommendations.
4. Sunwater's 2022-23 actual expenditure figures presented in this table are pre-adjustment and will differ from our Irrigation Pricing Proposal and its engagement materials. Sunwater's 2023-24 figures align with our pricing submission, these figures may differ from the budget.

Comparison of forecast and actual annuity-funded projects for 2022-23

The below table sets out the major annuity-funded projects planned for Burdekin Haughton Distribution⁴ in 2022-23 and the actual projects undertaken.

Table 9 - Comparison of forecast and actual annuity-funded projects for 2022-23

Facility	Activity description	Forecast \$'000	Actual \$'000	Commentary
Tom Fenwick pump station 2_3	Refurbish – pump units No. 2 and 3, reduction gearboxes and lubrications systems based on known asset condition and age.	799	21	There were significant delays in contract negotiations with OEM for the refurbishment of the gear box on pump unit 2. Work will continue in the 2023-24.
Haughton main channel	Replace – rotating safety screens and siphon inlets.	289	0	Work was complete in conjunction with other screen replacement and refurbishment projects. The total spend across all projects was higher than anticipated (\$64k overspend) due to the market value of materials and labour.
Millaroo channel system	Refurbish – concrete channel lining based on known asset condition and age.	231	189	Limited shutdown windows restricted what could be achieved during the financial year.
Dalbeg main channel	Replace – customer meters to Australian Standard (AS) 4747 based on known asset condition and age.	184	0	The project could not be completed due to contractor availability. The project was deferred to 2023-24.
Haughton main channel	Refurbish – left and right-hand radial gates based on known asset condition and age.	173	115	Effort required to refurbish was less than estimated.
Val Bird Weir	Refurbish – downstream protection works (mattresses and gabions).	173	94	Sunwater was unable to complete this project during the financial year due to contractor availability. Work will continue in 2023-24.
Giru Weir	Refurbish – downstream protection works (mattresses and gabions).	173	50	Sunwater was unable to fully complete this project during the financial year due to contractor availability. Work will continue in 2023-24.
Clare channel B6	Replace – customer meters to AS4747 based on known asset condition and age.	149	109	Sunwater was unable to complete this project. Work will continue in 2023-24.
Clare channel system	Refurbish – concrete channel lining based on known asset condition and age.	116	128	This project was completed broadly in line with the budget.
Haughton main channel	Replace – siphon inlet No. 1 sediment basin outlet safety screens.	87	465	Work was complete in conjunction with other screen replacement and refurbishment projects. The total spend across all projects was higher than anticipated (\$64k overspend) due to the market value of materials and labour.
Dalbeg channel 1	Replace – customer meters to AS4747 based on known asset condition and age.	79	0	The project could not be completed due to contractor availability. The project was deferred to 2023-24.

⁴ Based on information extracted from Sunwater's systems in mid-2023. See the 2023 S&PP at www.sunwater.com.au/schemes/Burdekin-Haughton/

Facility	Activity description	Forecast \$'000	Actual \$'000	Commentary
Tom Fenwick pump station 2_3	Refurbish – pump unit cooling water system.	69	32	The market value of procured items and labour was lower than estimated.
Tom Fenwick pump station (all)	Replace – pump station building security alarm and auto dialler systems.	79	2	This project was removed from the annuity program and completed under corrective maintenance.
Clare drain 1	Replace – access crossing 1 with new culvert arrangement.	69	2	Long lead items delayed construction. Work to continue in 2023-24.
Clare A pump station	Refurbish – pump unit No. 2 based on known asset condition and age.	69	62	This project was completed under budget.
Barratta main channel	Replace – rotating safety screen at RG2-019 siphon inlet.	58	8	Work was complete in conjunction with other screen replacement and refurbishment projects. The total spend across all projects was higher than anticipated (\$64k overspend) due to the market value of materials and labour.
Millaroo A pump station	Refurbish – pump station timber truss access bridge.	58	22	Effort required to complete the work was less than estimated.
Tom Fenwick pump station 2_3	Refurbish – corroded drainpipes in the concrete pump volute.	54	6	This project was deferred based on condition
Dalbeg main channel	Refurbish – float regulating gates No. 3 and 4 (blast, paint, and anodes) due to known asset condition.	46	16	The market value of procured materials and labour were lower than estimated.
Val Bird and Giru weirs	Replace – install new river gauging station at both weirs.	46	9	The project could not be completed due to contractor availability. Work to continue in 2023-24.
Multiple	Various projects	282	289	Collectively projects were completed broadly in line with the budget. The refurbishment of screens and guides at Barratta channel was completed in conjunction with the Haughton main channel screen replacements. The overspend of \$64k was due to higher materials and labour costs. The scope of work to refurbish the bulkhead gates at Tom Fenwick pump station was greater than anticipated based on condition and a storage rack requiring fabrication (\$113k). Other works completed under budget, were primarily due to lower material and labour costs (\$112k)

Facility	Activity description	Forecast \$'000	Actual \$'000	Commentary
Multiple	Non-scheduled projects	-	299	<p>This expenditure relates to carryover projects from 2021-22, urgent part replacements and repairs, flood damage repairs, continuation of the arc flash risk assessment (\$8k) and project costs invoiced after 30 June 2022 (\$5k).</p> <p>Carryover projects:</p> <ul style="list-style-type: none"> transformer isolator replacement (\$32k) vertical lift gate and switchboard replacement at Millaroo pump station (\$15k) sheet piling refurbishment at Giru Weir (\$4k) <p>Other projects completed based on condition:</p> <ul style="list-style-type: none"> batescrew gate replacements (\$23k) flow meter replacement at Healeys Lagoon (\$4k) cable replacement at Clare Weir (\$43k) pump 2 hydraulic refurbishment (\$7k) three studies to investigate pump well No.2, an options study for electricity cable replacement at Clare Weir and a risk review of regulatory structures (\$28k) <p>Several repairs were undertaken following the January 2023 flood event at Barratta distribution, Clare A pump station, Elliott distribution, Haughton distribution and Giru Weir (\$129k).</p>
2022-23 Total		3285	1917	

Annuity-funded projects for 2023-24 and 2024-25

The below table sets out Sunwater’s currently planned annuity-funded projects for 2023-24 and 2024-25⁵ period for this scheme. While the immediate program is well defined, estimates become more uncertain further into the planning timeline. Forecasts are likely to change in future S&PPs, reflecting changes in project delivery timing; asset condition and risk updates; outcomes from scheduled asset inspections; and customer feedback. The data in Table 10 is presented at a granular level and may not align with the overarching program names in our pricing submission.

Table 10 - Forecast annuity-funded projects planned for 2023-24 and 2024-25

Year	Facility	Activity description	Forecast \$'000
2023-24	Tom Fenwick pump station 2_3	Refurbish – pump unit No. 2, reduction gearbox and lubrication systems based on known asset condition and age.	1083
	Elliot pump station	Replace – switchboard No. 2 and Refurbish No. 1 based on known asset condition and age.	463
	Millaroo A pump station	Replace – control equipment based on known asset condition and age	203
	Clare A pump station	Refurbish – repair leak from pump No. 3 into the rising main.	152
	Dalbeg main channel	Refurbish – concrete channel lining based on known asset condition and age.	113
	Elliot pump station	Replace – regulating gate No.35 based on known condition and age.	113
	Clare channel system	Replace – meters at CB191W1, CB190W1 and CB209W1 based on known asset condition and age.	113
	Giru Weir	Refurbish – reinstate row 1 sheet pile due to condition.	113
	Scheme	Replace - channel scrapers based on known condition and age.	113
	Clare B pump station	Refurbish – submersible pump No. 3 and main suction pipe based on known asset condition and age.	85
	Dalbeg B pump station	Replace – submersible pump No. 2 based on known asset condition and age.	84
	Haughton Main Channel	Refurbish – rotating and mechanical weed screens based on known asset condition and age.	79
	Healey's Lagoon pump station	Replace – flowmeter on the pipeline based on known condition and age.	56
	Multiple	There are 12 other projects planned for 2023-24. These projects include a siphon replacement at Barratta Channel, sluice gate replacement at Clare Channel; refurbishment of the building structure at Dalbeg pump station B, ladders and enclosure refurbishment at Dalbeg pumpstation A; replacing two hydraulic cylinders at Elliot pump station; refurbishing distribution dashboards 1 and 2 and the drainage system at Tom Fenwick pump station; two	216

⁵ The project forecasts provided in this table align with our pricing submission. It is important to acknowledge that these projects are inherently dynamic and susceptible to changes influenced by various factors.

Year	Facility	Activity description	Forecast \$'000
		studies for cable and switchboard replacements at Dalbeg pump station and a options analysis to investigate the replacement of pump No.1 at Elliot pump station.	
	2023-24 Total		2987
2024-25	Giru Weir	Refurbish – reinstate row 1 sheet pile due to condition.	2096
	Scheme	Study – arc flash risk assessment to identify arc flash hazards.	585
	Elliot pump station	Replace – submersible pump unit No. 1 & 2 based on known asset condition and age.	347
	Clare channel system	Refurbish – concrete channel lining based on known asset condition and age	233
	Millaroo channel system	Refurbish – concrete channel lining based on known asset condition and age	233
	Millaroo B pump station	Refurbish – pump unit No. 1 and 2 based on known asset condition and age	135
	Dalbeg channel system	Refurbish – concrete channel lining based on known asset condition and age	119
	Houghton Main Channel	Replace – 9 regulating gate motors and control equipment based on known condition and age.	96
	Burdekin Distribution	Replace – Mount Kelly repeater station radio and RTU based on known asset condition and age.	58
	Mount Dalrymple	Replace – radio repeater station based on known asset condition and age.	55
	Clare B pump station	Refurbish – submersible pump No. 4 based on known asset condition and age.	53
	Dalbeg A pump station	Refurbish – pump unit No. 1 based on known condition and age	44
	Multiple	There are six other annuity-funded projects planned for 2024-25. These projects include investigating options to refurbish the channel lining at Clare channel; flow meter, ladder, handrail, and walkway replacement at Clare pumpstation A; refurbishing the pump well screens at Clare pump station B; refurbish the overflow and drainage structure at Houghton channel; replace the radio and RTU at Millaroo channel; and a meter replacement at Clare.	148
	2024-25 Total		4203