



**Irrigation Infrastructure Renewal
Projections - 2013/14 to 2046/47**
Report - Cedar Pocket Tariff Group

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1. Introduction

Seqwater owns and operates the following seven irrigation schemes:

- ▶ Central Lockyer WSS;
- ▶ Lower Lockyer WSS;
- ▶ Logan River WSS;
- ▶ Mary River WSS;
- ▶ Cedar Pocket WSS;
- ▶ Warrill Valley WSS; and
- ▶ Central-Brisbane WSS.

Seqwater also owns and operates a distribution system, the Morton Vale Pipeline.

There are nine tariff groups associated with these schemes.

To assist with the determination of price paths, a forecast of future renewal expenditure is required at the individual tariff group level.

The renewal projections have been developed, in accordance with the scope and methodology separately documented in the Methodology report. The projections have been developed in separate reports, one for each tariff group.

This report outlines the projections for the Cedar Pocket Tariff group. It should be read in conjunction with the Methodology report.

2. Asset Information

2.1 Irrigation Infrastructure

A summary of Seqwater's irrigation infrastructure facilities and assets is provided in Table 1 below.

Table 1 Summary of Irrigation Infrastructure

WSS Scheme	Tariff Group	Dams	Weirs	Off-Stream Storage	Other Key Assets
Mary River	Cedar Pocket	Cedar Pocket Dam	NA	NA	Flowmeters

A schematic drawing of the scheme is provided in 3.3.

2.2 Relevant Asset Information

The following existing information was reviewed and where relevant, utilised to develop the renewal projections:

- ▶ Asset Register;
- ▶ Annual, 5 Year and Comprehensive Dam Safety Reviews and Assessments;
- ▶ Draft WSS 20 Year Programme of Work 2008/09 – 2028/29;
- ▶ 2011 Site Safety Assessments;
- ▶ Extracts from Financial and Technical Asset Register
- ▶ 2009 Asset Valuation – Cardnos;
- ▶ 2010 Asset Valuation – Dams & Weirs – Cardnos;
- ▶ Cedar Pocket Dam Facility Asset Management Plan 2012; and
- ▶ Water Meter Upgrade plan.

3. Projections

3.1 Summary

A summary of the renewal and refurbishment projections for the period 2013/14 – 2046/47 is provided in Table 3.

Further details are provided in Appendix B.

It should be noted that all values are in \$2012-13.

3.2 Significant Projects

A list of projects included in the Annuity and that come under one of the following categories are outlined in Table 2 below:

- ▶ Scheduled between 2013/14 and 2016/17 financial years and having a project value greater than the average project value for that period; and
- ▶ A project that has an impact on the annuity of greater than 10%.

Table 2 Significant Projects

Asset	Description of Work	Timing of Work	Project Value	Signif.*
Cedar Pocket Dam	Repair of drainage on right-hand embankment	2014/15	\$18k	HAV/IA
Cedar Pocket Dam	Replacement of electrical reticulation to valves	2019/20	\$27k	IA
Cedar Pocket Dam	Renewal of telemetry assets	2020/21	\$34k	IA
Cedar Pocket Dam	Renewal of electricity supply assets	2025/26	\$30k	IA
Cedar Pocket Dam	Refurbishment of outlet valves	2024/25	\$28k	IA

Notes: *Significance: HAV – Higher than Average Value (for period from 2013/14 to 2016/17) IA – Project has an impact on the annuity of greater than 10% (refer Section 3.3 for commentary)

Table 3 Summary of Renewal Projections

Parent Asset	Expenditure Forecast Each Year (\$k)																
	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30
Cedar Pocket Dam	-	18	-	-	-	-	42	47	-	-	-	28	30	-	-	-	-
Water Flowmeters	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-
Total	0	18	0	0	0	0	42	47	0	0	0	28	65	0	0	0	0

Parent Asset	Expenditure Forecast Each Year (\$k)																
	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47
Cedar Pocket Dam	-	18	-	-	-	-	42	47	-	-	-	28	30	-	-	-	-
Water Flowmeters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	18	0	0	0	0	42	47	0	0	0	28	30	0	0	0	0

3.3 Additional Commentary

Commentary on projects that have an impact on the annuity of greater than 10% is provided as follows:

- ▶ Repair of the drainage on the Cedar Pocket Dam embankment around the access stairs to valve house is to address existing drainage problems;
- ▶ Replacement of the electrical reticulation to valves at Cedar Pocket Dam has been forecasted for when the reticulation assets are likely to reach the end of their useful life;
- ▶ Renewal of the telemetry assets at Cedar Pocket Dam has been forecasted for when the assets are likely to reach the end of their useful life;
- ▶ Renewal of the electricity supply assets at Cedar Pocket Dam has been forecasted for when the supply assets are likely to reach the end of their useful life; and
- ▶ Renewal of the outlet valves at Cedar Pocket Dam has been forecasted for when the valves are likely to reach the end of their useful life.

For the forecasted renewal expenditure between 2013/14 and 2016/17, values were compared with Sunwater's renewals projections which were the basis of the SunWater irrigation prices for 2006/07 to 2041/42. It was noted the total value of Seqwater's renewal forecast was approximately 58% of Sunwater's projections. The difference is believed to be primarily due to Seqwater projections being based on more up-to-date information

Appendix A

Water Supply Scheme Schematic

Note: Mary River WSS Scheme Schematic provided, showing location of Cedar Pocket Dam in relation to scheme.

Appendix B

Renewal Projections