

11.2 Drinking Water Management System.DOC

Table 1 – Action plan to support the DWQMS

Action	DWQMS Item	Risk	Responsibility	Five Year Cost (\$k)	2014	2015	2016	2017	2018
1 Develop and Implement a Water Quality Database	WQ2 WQ19 WQ10 WQ20 WQ28 WQ29 WQ34	Medium	Water Quality Committee	40,000	20,000	5,000	5,000	5,000	5,000
2 Develop a well head protection zone for each bore site and investigate policy options.	WQ3	Medium	Environmental Engineer Waste	5,000	0	0	0	0	0
3 Investigate Chlorine Contact Time for first customers from bores.	WQ14	Medium	Operations Engineer Water and Wastewater	0	0	0	0	0	0
4 Review of Service Level Agreement between Rous Water and Ballina Shire, Chlorine Targets, Chlorine Residuals, Water Wheels	WQ16 WQ26 WQ18 WQ25	High	Manager Water and Waste	0	0	0	0	0	0
5 Develop a backflow prevention device register	WQ22	Medium	Water Quality and Trade Waste Officer	0	0	0	0	0	0
6 Formalise, implement and monitor compliance with codes and specifications. Including chlorination and bacteriological testing of new assets	WQ24 WQ23	Medium	Strategic Engineer Water and Wastewater	0	0	0	0	0	0
7 Develop and implement a procedure for: - the ordering and receipt of water treatment chemicals. - the calibration and maintenance of monitoring equipment. - formal emergency and incident response protocols and associated procedures - internal and external auditing of the drinking water system. - testing requirements following repairs to pipelines.	WQ30 WQ31 WQ32 WQ33 WQ21	Low	Strategic Engineer Water and Wastewater	25,000	5,000	5,000	5,000	5,000	5,000
8 Investigate operator testing of aluminium in flocculation pond.	WQ4	Medium	Foreman Treatment Plants	0	0	0	0	0	0
9 Develop control strategy for operating Marom Creek WTP and bores.	WQ11	Medium	Operations Engineer Water and Wastewater	0	0	0	0	0	0
10 Develop a procedure for bringing bores back online	WQ12	Medium	Operations Engineer Water and Wastewater	0	0	0	0	0	0
11 Investigate quality of media and options for improvement (core sampling).	WQ7	Medium	Operations Engineer Water and Wastewater	23,000 [†]	1,000	20,000 [†]	1,000 [†]	0	1,000 [†]
12 Online Instrumentation project - Marom Creek	WQ1 WQ5 WQ6 WQ8 WQ9 WQ15	Medium	Strategic Engineer Water and Wastewater	150,000 [†]	25,000	100,000 [†]	25,000 [†]		
13 Investigate installation of telemetry at bores (dosing pumps).	WQ13	Medium	Operations Engineer Water and Wastewater	5,000	5,000	0	0	0	0
Total				243,000 [†]	51,000	135,000 [†]	36,000 [†]	10,000	11,000
Total Requested [‡]				96,000	51,000	15,000	10,000	10,000	10,000

[†] Development of the database is already significantly underway. It will provide necessary data management capacity to Water, Wastewater, Waste, Public and Environmental Health departments of Council.

[‡] Investigations are required prior to undertaking these works; costs shown are indicative only. This report does not request budget allocation for these amounts.

[‡] Total Requested does not include for works where investigation is required prior to implementation.