Shire of Lake Grace Post-Review Implementation Plan 2020

Recommendation	Non-compliance / Controls improvement (Rating / License obligation reference number & license obligation / Details of non- compliance or inadequacy of controls)	Reviewer's recommendation	Action proposed to be taken by the licensee	Responsible person	Target completion date
1/2019	• As for the 2016 review, Reviewer was provided with a copy of the 2016 Asset Management plan prepared by GHD. The AMP is considered adequate in concept – but is significantly out of date. Future activities and maintenance are proposed for dates prior to, or during the previous review	That the AMP be thoroughly reviewed and updated as recommended elsewhere in this report including the following obvious items: The AMP is dated 2017 and is clearly out of date — as are many of its component sections; and	The Shire will have a consultant engaged through the WALGA Preferred Supplier Panel under the contract "Engineering Consulting Services" to provide a whole of document review and update of the Shire's Asset Management Plan, after a mandatory site visit.	Acting Manager Infrastructure Services (A/MIS), Consultant	30 June 2020
	period - and in most cases were not implemented. There is little or no documented evidence of implementation in many cases such as operations, maintenance, financial or capital expenditure planning, or review of documents within the AMP. The AMP should be thoroughly reviewed and updated subject to comments and recommendations outlined	 Appendix A (Contingency Plan) and Appendix B (Personnel Contact Information) contain the names of Shire contacts no longer employed by the Shire – and should be replaced by the current Shire staff. 	Shire Officers will update these references in the AMP.	Technical Officer (TO)	31 March 2020

	· -	 	r
in the 2016 review - and			
repeated in this 2019 review;			
The Asset Renewal Strategy in			
the AMP tabulates the long-life			
expectancy of most assets. As			
the Shire has no current need			
for significant planned			
replacement of its assets, its			
asset-based expenditure will be			
on maintenance, refurbishment			
and repair where necessary;			
The Shire has a specific policy			
for cost limits on quotes,			
tenders and a regional price			
preference associated with new			
or replacement assets. The			
policy is based on the			
requirements of the Local			
Government Act; and			
 Future planning by the Shire for 			
its sewerage scheme			
development is constrained by			
minimal growth of the town's			
population and connections to			
the sewerage scheme over			
recent years. The population,			
number of connections and			
sewage flows are therefore			
expected to be unchanged for			
the foreseeable future. Capital			
works will therefore be based			
on replacement of assets as			
required by age or condition			

	rather than due to the necessity to increase the capacity of existing assets. The AMP states (item 3.1.1): "The forecast demand for sewerage services is no expected to increase".				
2/2019	C3	It is recommended that:			
	 Operation and Maintenance tasks are generally identical procedures in small basic sewerage systems such as that at Lake Grace. The AMP outlines the tasks reasonably well but with insufficient information in some cases - such as desludging the Imhoff Tank. Also, the AMP describes specific operations and maintenance tasks and their frequency. However, these tasks have not been undertaken; The contract plumber undertakes the inspection, maintenance and repairs associated with the collection 	 Collection System – the Shire conduct and record a condition inspection of access chambers in its Asset Register. The Shire should also arrange for a CCTV inspection of the condition of all sewers. The results of the condition inspections should be recorded in the asset register. Items requiring repair or maintenance should also be recorded, prioritised and actioned. The Shire should flush the sewer collection system with clean water on an annual basis; 	➤ Quotes have been gathered and awarding the job to the best proposition is currently being deliberated. An item to Council will be put forward during the April Ordinary Council Meeting to request additional funds drawn from the Sewerage Reserve to cover these works in the current Budget. Once funds are secured, contractor will be organised to carry out CCTV Inspections of the town's sewerage mains and access chambers which will take a week.	A/MIS	31 May 2020
	system, pumping station and the Imhoff Tank. A Shire staff member is designated to		Plumber will be organised to flush the system by mid- April.	ТО	17 April 2020
	undertake checking and recording of maintenance and repair activities. However, checking is only done following	 The cover to the septage discharge point should be fitted with a padlock – and a Shire officer appointed to unlock the cover and to verify the waste 	The Shire will not be fitting padlocks to the RV Dump Points on account of large inconvenience to RV campers who cannot	Rejected	Rejected

receipt of the plumber's account and the works are not recorded on job sheets or maintenance schedules;	material and oversee its discharge to the sewerage system;	immediately deal with their business and to Shire staff in charge of the keys— especially on weekends. In		
The contract plumber has a sound knowledge of the overall system and appears to initiate maintenance works with little or no reference to Shire Officers. At the Shire's request, the Imhoff Tank was recently emptied and cleaned. Unfortunately, the accumulated sludge (which Imhoff Tanks		cases where a camper van trail runs through town would consume a large amount of time from the staff member looking after the RV Dump Point. It would be more costly but more convenient to keep the RV Dump Points unlocked and to deal with any		
remove from the sewage flow prior to its entry to the ponds) were discharged to the pond system, resulting in significant additional Biochemical Oxygen Demand (BOD), Solids and bacterial load likely to result in substantial decrease in the	 Signage – a sign for the main pumping station should be removed from the switchboard cabinet and be re-mounted on the enclosure fencing; 	complications arising from improper use or vandalism. > Organise building maintenance staff to move the sign and cover gaps from the front of control panel leftover.	A/MIS	31 March 2020
quality of effluent. • Four access chambers were inspected during the field review. In three cases the covers were overlain with soil and weed and would not have been located but for the local knowledge of the plumber. All covers should be greased. The benching in one chamber was broken and the access step	 Weekly run hours recording of all pumping station pumps should continue and monitored for unexpected variations. New cut in and cut out set points for the Mason St pumping station should be determined and the pump volume contained between the set points determined. The pumping and refill periods should be 	➤ Weekly run hours recordings are ongoing. Cut in and cut out levels are the same as before. Refill interval will be re-measured to verify that the new pumps are operating more effectively than the years old pumps they have replaced. After that calculations can commence to find the new	ТО	31 March 2020

 irons in another dangerously corroded. The condition of all chambers should be assessed, covers greased and a maintenance/repair program 	measured to determine pump discharge rates – allowing annual flows to the treatment plant be determined from measured pump hours; • Treatment plant – weeds on	annual intake flow. Perimeter around Pond No.2	A/MIS	30 June
 implemented. The Shire has provided a septage disposal pit adjacent to the pumping station near the swimming pool. Waste contractors may discharge 	embankment walls should be poisoned regularly. Shrubs and trees on the embankment should be removed and the surface restored;	has been cleared but there are still some shrubbery around the slopes of the embankment that will need to be poisoned and removed.	, and the second	2020
wastes to the pit simply by opening the hinged cover. Reviewer considers the cover should be fitted with a padlock to prevent improper dumping of unsuitable wastes and vandalism. Bona fide users would be required to request a nominated Shire officer to	 The Shire should seek the approval of Department of Water and Environmental Regulation to continue discharge of treated effluent to the salt affected hollow on the adjacent property; 	➤ The Shire will secure a written letter from the affected property's owner first, then seek approval to continue the plan for Treatment Pond 2 to overflow into the adjacent private land from DWER by May 2020.	A/MIS TO	31 May 2020
unlock the cover and verify the quality of waste discharged; • Sludge deposited in an Imhoff Tank takes about thirty days to digest - changing in colour from brown to black. Sludge should therefore be discharged to the drying bed at monthly intervals. Flow should be terminated when the out-flow colour changes from black to brown. This procedure should be	• Treatment plant – while water levels are low the Shire should install a new overflow at IL 234.34 metres AHD in the northern end of the west wall of Pond No.2, together with a protective layer of say, 75mm stone placed against the now vertical internal face of the northern wall of Pond No.2, the Shire should empty and re-line the pond as (or similar to) the	New overflow pipe has been installed on the northern end of the western wall (opposite location of inflow pipe).	Nil	Complete

included in the maintenance	procedure described above;			
schedule.	• Treatment plant – the AMP	Addition of this procedure	ТО	31 March
Staff training and qualifications,	should contain a sequence and	will be handled by Shire		2020
certificates held, training	description of procedures for	officers.		
records etc. are coordinated by	the general operation and de-			
the Shire's Training Officer. In	sludging of the Imhoff Tank;			
addition to induction and OSH	Operations and Maintenance -	Maintenance schedule will	A/MIS	Ongoing
training, specific job task	the Shire should verify that the	now have an annual		
training and re-training is	planned maintenance schedule	servicing of all pump		
recorded and arranged. There is	corresponds with maintenance	stations, and an annual		
no specific training related to	tasks undertaken by the	pump out of the Imhoff tank		
the sewerage system	plumber and agree to and	on top of monthly cleanouts		
operations;	document changes where	of all wet wells.		
o The list of assets in the	necessary. The Shire should	An official call for tenders to	A/MIS	30
asset register appears up	negotiate a contract for	provide sewerage		November
to date. However, records	operations, planned and	maintenance services will be		2020
of aset condition are out of	unplanned maintenance	ran in July or August 2020.		
date and should be re-	services currently provided by	Awarding of the Contract,		
assessed. E.g.:	the plumber. Operations and	signing and counter-signing		
Access Chambers were last	maintenance procedures should	will be complete by end of		
inspected in 2016. Their	be initiated by the Shire –	November 2020.		
condition was not rated	preferably by the Senior			
and remains un-rated.	Technical Officer.			
Work carried out during				
the 2016 inspection and additional work required				
was noted. However, there				
is no indication as to				
whether or not this				
additional work was				
undertaken.				
Pumping equipment and WWTP				
were last inspected in 2010				
were last hispected in 2010				l l

when condition was rated as	
fair and good. Reviewer noted	
that pumps, control equipment	
and associated equipment	
(including spare pumps) were	
replaced during November	
December 2019. Not all of this	
information has been included	
in the asset register.	
The condition of pipes has not	
been assessed, as the Shire	
prefers to note pipe condition	
at failure locations inspections.	
As recommended in the	
previous review, the Shire	
should engage a contractor to	
conduct a CCTV inspection to	
assess the condition of its sewer	
pipe system;	
• During mid - 2019, the Shire	
appointed a Senior Technical	
Officer with sewerage system	
experience, to coordinate asset	
management monitoring and	
recording documentation, ERA	
licence reporting for the	
sewerage system. He will be	
supported by the existing	
Technical Officer who was	
previously overloaded and	
without experience in the	
processes, operation and	
maintenance of sewerage	

systems,	T	 	Γ
Appoint			
	nent of an nental Health Officer		
	is not considered		
	ate for such a role as		
-	ormally only visit the		
	a fortnightly basis;		
	scontinuing irrigation of		
	e's recreation areas with		
	effluent in 2014, the		
	vel in the second pond		
	eased to the emergency		
	pipe water level of RL		
	metres AHD during the		
	ainfall months i.e. 46		
	ve the design level of RL		
	metres AHD. During this		
period,	treated effluent has		
_	ed to a salt affected		
basin	on private property		
immedia	tely west of the WWTP.		
Reviewe	r was advised that the		
owner o	f the property adjacent		
to the W	/WTP has agreed to the		
discharg	e of treated effluent to		
the salt	affected hollow on his		
land. It i	s unclear as to whether		
or not t	he Health Department,		
or Depa	rtment of Water and		
Environr	nental Regulation are		
aware o	, or, have approved the		
practice.	* *		
A side is	ssue of the increase in		

the pond level is that erosion of			
the banks has occurred above			
the design top water level -			
allowing significant seepage			
from the second pond at the			
northern end. During 2017,			
Reviewer reported to the Shire			
on this issue and made			
recommendations regarding the			
legal aspects of the practice and			
repair of the embankments. No			
action was taken.			
 Currently, evaporation has 			
reduced both ponds to a level			
below their design level.			
Consequently, there is no			
discharge from the plant and no			
seepage occurring from the			
northern embankment of Pond			
No.2. At this point the Shire			
should urgently construct an			
additional overflow pipe at the			
north west corner of Pond No.2			
at an invert level of RL 234.34.			
This will ensure that future			
pond No.2 levels do not exceed			
the original design level, should			
arrest the ongoing bank erosion			
and possibly leakage from the			
pond. A protective layer of say,			
75mm stone placed against the			
now vertical internal face of the			
northern wall of pond No.2			

	would provide additional stability and dissipate any future eroding wave energy. If, following the above procedure, erosion and/or seepage is continuing, the Shire should consider lining Pond No.2. It is suggested that the pond be pumped empty, allowed to dry out and lined with a suitable membrane - after which it can be returned to service. This procedure should be undertaken during the summer months when both pond levels are low. Any flow into Pond No.1 not removed by evaporation could simply be discharged to the adjacent salt affected hollow.				
3/2019	СЗ	The planned maintenance schedules	The AMP will be updated with the	A/MIS	30 June
	The AMP contains a concise	should be edited and updated to	requested information by Shire	то	2020
	schedule of maintenance tasks over	include:	staff.		
	a twelve-month period. The	- Maintenance tasks for 2019/20			
	document is clearly out of date as it	and 2020/21			
	contains separate annual schedules	- Provision for confirming and			
	for 2015/16 and 2016/17. The document should be corrected for at	recording that maintenance has occurred and the date.			
	least 2019/20 and preferably 20/21	- Actual and estimated costing			
	in addition.	information for current and			
		subsequent years			
	The schedule contains columns	- Provision for providing			
	for entering costs for labour,	comments on condition, work			

	materials and total costs for each task to be undertaken in each month. There is no column for recording that maintenance tasks have been completed. As the schedules are out of date, there is no cost information for the current year or estimates for the subsequent year. The comments column is too small to accommodate useful information regarding work required. • The names and contact details of Shire staff and trades contractors are incorrect and out of date by some five years	required etc for each asset or asset group. - Edit and correct details of Shire staff and contractors associated with maintenance activities. - Operations and Maintenance - the Shire should verify that the planned maintenance schedule corresponds with maintenance tasks undertaken by the plumber and agree to and document changes where necessary. The Shire should negotiate a contract for operations, planned and unplanned maintenance services currently provided by the plumber. Operations and maintenance procedures should be initiated by the Shire - preferably by the Senior Technical Officer.			
4/2019	• The Asset Management Information System ("AMIS") contains a comprehensive Risk Assessment spread sheet based on AS/NZS ISO 31000:2009. The AMP at sub-section 4.5 —	 That the Risk Assessment be reviewed to examine the absence of controls claimed to exist and the consequent level of risk - or that the controls claimed be promptly implemented. 	An independent consultant will be brought to review the entirety of the risk assessment spreadsheet.	Consultant	30 June 2020
	"Summary of Risks" states in part, "The risk assessment concluded that other than the rising main, all other assets	That reference to pumping station overflows be deleted from the assessment and that references to the "Manager"	This will be modified by Shire officers.	ТО	31 March 2020

were at low to moderate risk exposure, which could be managed with current process	Infrastructure Services" be substituted for references to "Works Manager"			
managed with current process and procedures and no further actions were needed to manage or mitigate the other risks."; Reviewer noted the risk assessment controls refer to CCTV inspections of pipes, regular inspection of the network, annual inspection of access chambers, and monthly surveillance of the WWTP facilities. As the Shire has not implemented any of these inspection procedures the controls are therefore weak, or non-existent. The current assessment of risk is at least		An independent consultant will add and assess these two risks.	Consultant	30 June 2020
questionable. • Similarly, pumping station failure controls are stated to include overflow capture, which in-correct, as none of the four pumping stations has an overflow basin. The Shire employs an Infrastructure Services Manager, not a Works Supervisor as stated at several locations in the AMP. This position is currently vacant. • The risk analysis does not include an assessment of the				

5/2019	risks associated with a bushfire which could render the pumping station controls unserviceable, or an earthquake which could weaken the northern and western walls of Pond No. 2 at the WWTP. • Finally, loss of an embankment of a treatment pond No 2. could occur unless the Shire attends to the embankment erosion risk. In this event, the delay and cost could be far more significant than assessed. C2 The previous review recommended that the section on Contingency Planning be carefully be reviewed and re-written in response to Reviewers comments. However, the AMP document presented for this review still contains the former Contingency Plan unchanged. The former document should be replaced in the AMP with a new contingency plan recently prepared. The following comments refer to the new contingency plan document.	That in view of the above comments, the new AMP section on contingency planning should: • Replace the plans currently contained in the AMP; • Include contact details for Western Power, Police, Emergency Services, NBN, Ambulance and Liquid Waste Removal contractor; • Include details of the new Manager Infrastructure Services, when appointed;	 Will be done by the independent consultant. To be added to the individual document before being added to the AMP by Shire Officers. Position for new MIS still yet to be advertised. Will be replaced with Acting Manager. Infractructure 	Consultant A/MIS, TO Consultant	30 June 2020 31 March 2020 30 June 2020
	new contingency plan document.	Services, when appointed;	Manager Infrastructure Services in the meantime.		
	The new contingency plan contains a set of basic contingency procedures and is considered adequate for its	 Include the use of a waste tinkering service when applicable; 	Will be done by the independent consultant.	Consultant	30 June 2020

 The list of contacts contains the names and contact details of several relevant employees of the Shire, together with the local plumber and electrician, pump supplier. Contact details for other authorities / relevant businesses should also be listed in case their input is required. 	 Include the implementation of an in-house workshop held annually, at which two separate emergency scenarios are "work shopped" by the relevant Shire staff. 	➤ Will be done by the independent consultant.	Consultant 30 June 2020
These include the Water Corporation, Police, Ambulance Service, Waste Removal and Earthworks contractors. Vanessa Crispe - Manager Infrastructure Services has recently left the Shire. Her name and contact details should be replaced with those of her successor			
 The plan should include the use of a waste removal contractor to tanker wastes upstream from a blockage to a downstream pumping station, the Shire's WWTP, or that of another sewerage services provider. There is no requirement for the plans to be tested or reviewed. An in-house workshop should therefore be held annually, at which two separate emergency scenarios are "work shopped" 			

by the relevant Shire staff. The workshop should assess and develop staff knowledge of the system and the approach to emergency control and service restoration. The workshop scenarios should be prepared by the Manager Infrastructure Services – who will facilitate, but not lead discussion. Minutes should be kept and issued to participants. Any changes considered necessary should be incorporate in the contingency plans 6/2019 C3 The financial plan submitted for the 2016 review has been re-submitted unchanged for this 2019 review. An updated financial plan for the sewerage services could not be provided. Therefore, the comments and recommendations of the 2016 review are repeated for this 2019 review as follows: • Section 7 – Financial Summary of the AMP provides a breakdown of income and costs for the five-year period 2016/17 to 2020/21. For a consistent five years period from the end of the review date, the estimate range should be 2017/18 to	• Section 7 of the AMP should be reviewed, clarified and edited so that cost estimates in the whole of life spreadsheets and the AMP are in agreement – or any differences explained. The document should be extended annually to provide a rolling five years prediction of the financial viability of the sewerage system. Similarly, the source and relationship between amounts in the various tables of Section 7 of the AMP should be made clearer.	The consultant will undertake the financial planning review then implement it into the AMP. Consultant will be given information of the works and spending of the 2019/20 financial year to inform their review of the Shire's forward financial planning for the sewerage maintenance system. The 2019-20 budget is quite the exception due to mass replacing of long-overdue assets throwing the spending numbers out of previous trends.	Consultant	30 June 2020
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2012/22 and is therefore two		
years out of date;		
Reviewer noted that the whole		
of life capital replacement		
spread sheet indicates a net		
present value of \$2,966,359 and		
a corresponding annuity of		
\$94,003. Deducting an amount		
of \$900,000 (held in the		
sewerage reserve at 30 th June		
2017) from the net present		
value reduces the annuity to		
\$ 65,820. The AMP states the		
capital replacement annuity as		
being \$67,973 - which is		
essentially in agreement with		
the above. However, the source		
calculations are not provided;		
 The whole of life annuity spread 		
sheet determines an annuity of		
\$94,003 for maintenance. The		
estimated total annual annuity		
cost (capital plus maintenance)		
is therefore in the order of		
\$65,820 + \$94,003 = \$159,823 -		
which exceeds the required		
annuity of \$126,146 quoted in		
sub-section 7.5 of the AMP;		
An income of \$135,069 is listed		
in the AMP for 2015/16 - which		
indicates an on-going income		
shortfall in the order of (capital		
plus maintenance annuity		

	minus income) \$159,823 - \$135,069 = \$\$24,754 annually – unless rates are significantly increased; Reviewer spent a significant amount of time attempting to understand the difference between annuities stated in the AMP and those of the whole of life financial spread sheet. Reviewer was also unable to understand the overall set of figures and tables in Section 7 of the AMP; and Reviewer acknowledges that Section 7 of the AMP is intended to provide a rolling five-year forecast if income and expenditure and to indicate that financial planning is sound. However, review, clarification and editing of the document is required to provide the intended outcome.				
7/2019	The Capital Expenditure information submitted for the 2016 review has been re-submitted unchanged for this 2019 review. An updated Capital Expenditure plan for the sewerage services could not be provided. Therefore, the comments and	 That the AMP and Financial model be reviewed, amended as necessary and updated annually to ensure consistency of Capex expenditure forecasting and input to financial budgets; 	The consultant will review this and make or recommend changes necessary. Updates to the AMP in subsequent years will be carried out by Shire officers using the financial planning done by consultant.	Consultant	30 June 2020, Ongoing for annual updates
	recommendations of the 2016	• Ensure that sewerage asset	➤ The Technical Officer,	то	30

review are repeated for this 2019 review as follows. • The following tabulation shows the 2018 to 2022 capex expenditure projections of the (a) — Financial mode of the AMIS, (b) — AMP and (c) — Shire's (then 2017/18) current budget:	management officers provide input to sewerage system budget preparation and that associated AMP documentation is amended as necessary to agree with budget provisions; and	besides the Manager Infrastructure Services is the only one with a large responsibility towards sewerage maintenance. TO will discuss with A/MIS about the budget. Budget is usually adopted around September every year.		September 2020
(a) — Financial Module of Excel based AMIS: 2018 = \$271,666 2019 = \$5,206 2020 = Nil 2021 = Nil 2022 = Nil (b) — AMP: 2018 = \$233,720 2019 = Nil 2020 = Nil 2021 = Nil 2022 = Nil (c) — Shires 2017/2018 Budget: 2018 = Nil 2019 = Nil 2020 = Nil 2020 = Nil 2021 = Nil 2021 = Nil 2021 = Nil 2020 = Nil 2021 = Nil	The document should be extended annually to provide a rolling five years prediction of capital expenditure requirements.	➤ To be done by the consultant by 30 June 2020 to assist in determining sewerage maintenance budget for next financial year.	Consultant	30 June 2020
 Reviewer noted the discrepancy between the Finance model and the AMP in the years 2018 and 2019 – which is not explained or 				

	corrected. Although both the Finance model and the AMP estimate 2018 expenditure in excess of \$230,000, the Shire's budget contains a nil provision for 2018 and subsequent years to 2022; • Whilst the AMP indicates the general areas in which Capex expenditure is intended, a more detailed breakdown of the estimates should be provided in the AMP. As noted for Item 10 - Financial Planning, the Capex Plan should be extended annually to provide a rolling five years prediction of capital expenditure from the current financial year; and • As noted, elsewhere in this document the AMP is out of date and should be reviewed and updated. There appears to be little or no interaction between the Shire's officers responsible for the sewerage asset management system and those preparing the annual budget.				
8/2019	 Independent reviews of the asset management system have been undertaken by approved 	The practises and staffing of managing the assets of the Shire's sewerage system should be reviewed and revised;	The Shire intends to recruit for the currently vacant position of Infrastructure Administration Officer (and	, ,	31 October 2020

Auditors since the issue of - and in accordance with, the requirements of the Shire's Water Services Licence; • Dated December 2016, the AMP is unchanged since originally submitted for the 2016 review. Only two recommendations from the 2016 review have	The AMP should be thoroughly reviewed, corrected and edited	potentially a new position called Development Services Officer) to move workload off the TO and A/MIS (MIS) position so they can focus on upkeep and upgrade of sewerage infrastructure. > Once new positions are filled and responsibilities	ТО	31 October 2020
been implemented i.e the appointment of the Senior Technical Officer (now the acting Manager Infrastructure Services) and re-writing of the Contingency Plan. Although	in accordance with any changes resulting from the above revision and the recommendations of this Report. • Apart from five yearly revisions	allocated, AMP will be updated with this information by Shire officers. The TO will undertake the	то,	Ongoing,
prices were received for CCTV inspection of the reticulation sewers, a contract has not been awarded. • The 2016 AMP was prepared following Quantum Assurance 2014 Review and was being revised during the ERA Inspector's September 2016 visit. Although initial work on	of the AMP, a desk-top review of the document should be undertaken annually – including up-dating of the financial and capital expenditure plans. The reviewer's name, review date and details of amendments should be included in the revision sheet.	annual desktop review of the AMP to keep financial and position references up to date. Completion of this item is dependent on the consultant to first deliver the financial planning during their review, thus has a later completion date than other AMP in-house revision items	Consultant	30 June 2020 for financial portion
the September 2016 AMP appeared promising, during the 2016 review. This 2019 review concludes that an adequate revision or review of the Asset Management System has not been undertaken in accordance with recommendations of the	 Management of the Asset Management System - including overall managerial responsibility and duties of support staff should be reviewed as soon as possible. The review should be undertaken by suitably qualified 	Once vacancies start being filled an independent consultant can review this section of the AMP. Therefore its estimated completion time is tied with the sub-recommendations above.	Consultant	31 October 2020

2016 review	independent person; and	
The AMP remains incomplete,	resulting recommendations	
out of date in terms of its	implemented.	
financial and capital		
expenditure planning and		
contains staff and contact		
errors. The control sheet at the		
rear of the document has no		
revision details, dates, or		
signatures.		
This review states (in Section 7 -		
Asset Management Information		
System), that "The system is		
adequate for the Shire's		
sewerage system		
management". However, it		
appears from the issues listed		
within this report, that the		
system itself is not adequately		
managed by the Shire.		
Management of the system -		
including the overall managerial		
responsibility and duties of		
support staff, should be		
reviewed as soon as possible.		
The review should be		
conducted by a suitably		
qualified independent person;		
and the resulting		
recommendations		
implemented.		
 implemented.		<u> </u>