AERATED WASTEWATER TREATMENT SYSTEM SERVICE & MAINTENANCE REPORT

VERSION 2 – SEPTEMBER 2024

Wastewater reports are required to be submitted to th City of PAE every quarter.

This document can be used to complete your reportin

Complete the form and return it by email to ceh.support@cityofpae.sa.gov.au

Service agent declares that they are appropriately qualified, that this is a true and accurate report and that service and maintenance have been completed in accordance with the manufacturer's recommendations[1,2]

Full name: Signature:

CUSTOMER & SYSTEM INFORMATION

SITE ADDRESS[3]:

Owner/Customer name

Owner/Customer ID[4]

GPS location

Location description[5]

AWTS Make

AWTS Model

Local council

Council ID/Approval No.[6]

Date of this service

Date of last service[7]

Next service due

Service frequency[7] (if not quarterly)

System on and functioning on arrival[8] ☐ Yes ☐ No

Weather conditions ☐ wet ☐ dry

1 LAND APPLICATION					FAULT DETAIL[9]	RECTIFIED[10]
1.1	Effluent disposal to[11]	☐ subsurface	☐ surface			
1.2	All filters cleaned	☐ N/A	☐ Yes	☐ No		
1.3	All valves flushed	☐ N/A	☐ Yes	☐ No		
Surface irrigation[12] ☐ **N/A**		'Yes' indicates critical fault[9,12]				
1.4	Spray drift/run-off		☐ Yes	☐ No		
1.5	Sprinkler fault/dripper fault/open hose		☐ Yes	☐ No		
1.6	Warning signs inadequate		☐ Yes	☐ No		
1.7	Effluent contacts fruit/vegetables		☐ Yes	☐ No		
1.8	Effluent contacts recreation and/or other areas[13]		☐ Yes	☐ No		
1.9	Effluent pooling at ground's surface		☐ Yes	☐ No		
Subsurface disposal[12] ☐ **N/A**		'Yes' indicates critical fault[9,12]				
1.10	Effluent visible at ground's surface		☐ Yes	☐ No		
2 PRIMARY TREATMENT						
2.1	De-sludge/pump-out required		☐ Yes	☐ No		

AERATED WASTEWATER TREATMENT SYSTEM SERVICE & MAINTENANCE REPORT

VERSION 2 – SEPTEMBER 2024

	3 AERATION				FAULT DETAIL	RECTIFIED
3.1	Air pump/blower operational		☐ Yes	☐ No		
3.2	Air bubble distribution satisfactory (even)		☐ Yes	☐ No		
3.3	Air pump alarm functioning		☐ Yes	☐ No		
3.4	Dissolved Oxygen value ____ mg/L is at least 2mg/L		☐ Yes	☐ No		
3.5	SV30[14] value ____ % is satisfactory (30-70%)	☐ N/A	☐ Yes	☐ No		
	4 SETTLING					
4.1	Sludge return adequate	☐ N/A	☐ Yes	☐ No		
	5 DISCHARGED EFFLUENT (IRRIGATION SUMP)					
5.1	Irrigation pump functioning		☐ Yes	☐ No		
5.2	Pump high-level alarm functioning		☐ Yes	☐ No		
5.3	Water turbidity value ____ is less than 10 NTU		☐ Yes	☐ No		
5.4	Disinfection method[15]	☐ N/A	☐ UV	☐ chlorine		
	Chlorine disinfection[12] ☐ N/A		'Yes' indicates critical fault[9,12]			
5.5	Free Chlorine value ____ mg/L is less than 0.5mg/L		☐ Yes	☐ No		
5.6	pH value ____ is outside of range 6-8		☐ Yes	☐ No		
5.7	Number of chlorine tablets present at start of service					
5.8	Number of chlorine tablets added during service					
	UV disinfection[12] ☐ N/A		'Yes' indicates critical fault[9,12]			
5.9	Lamp hours remaining ____ is less than 2250 hours[16]		☐ Yes	☐ No		
5.10	Lamp dirty or fouled		☐ Yes	☐ No		
	6 OTHER					
6.1	Offensive/strong odour		☐ Yes	☐ No		
6.2	Unauthorised discharges/materials[17]		☐ Yes	☐ No		
6.3	Structure of tank(s) is sound		☐ Yes	☐ No		
6.4	Alum dosing[18] satisfactory	☐ N/A	☐ Yes	☐ No		
6.5	Inlets and outlets all clear		☐ Yes	☐ No		
6.6	All access points secure at conclusion of service		☐ Yes	☐ No		

7 FURTHER ACTION REQUIRED[19] – attach supporting documentation such as photos

For immediate attention of owner/customer (first report of non-critical faults as well as continuing non-critical faults or uncorrected critical faults)

For immediate attention of council (continuing non-critical faults or uncorrected critical fault)

AERATED WASTEWATER TREATMENT SYSTEM SERVICE & MAINTENANCE REPORT

VERSION 2 – SEPTEMBER 2024

GUIDANCE NOTES

1. By completing the declaration, the service agent acknowledges that they are appropriately qualified and have the skills and knowledge necessary to complete the tests and assessments prompted by this checklist. Complete every checklist item and only select 'N/A' (not applicable) if the item is not a component of the system.
2. If a service agent has reason to believe that the AWTS and/or associated land application system presents an imminent risk to public health and/or the environment (e.g. in the event of contamination of water course or bore), they should immediately advise the relevant local council and/or EPA, as appropriate.
3. Site address should be the same as that shown on the council rates notice or – for non-rateable properties – as advised by the council ('Township cricket ground' or 'National Park campsite', for example, are not satisfactory).
4. Customer ID (optional) may be a file number or similar that the Service Agent has created for their own records purposes.
5. In the absence of, or in addition to providing GPS location, briefly describe the location of AWTS tank as well as land application system, for example: 'tank behind the carport, irrigation in front yard'. This is especially important for large properties and/or if there is more than one AWTS at a property.
6. Council ID/Approval No. (if it exists) is the local council's own identifier for the relevant wastewater works approval.
7. Inadequate service frequency is a fault that must be reported to owner/customer in the first instance and to the local council in the event that this fault is repeated. If not specified otherwise by council, service frequency is quarterly.
8. Inadequate and discontinuous provision of power to the system is a fault that must be reported to owner/customer in the first instance and to the local council in the event that this fault is repeated.
9. Whenever a response to checklist questions indicate that the system is not functioning satisfactorily, detail must be provided in the 'Fault Detail' column; the same applies to critical faults.
10. Document any repairs and/or adjustments to the system that are made in response to identified faults during the service in the 'Rectified' column.
11. Noting that some AWTSs may have both surface and subsurface land application areas.
12. Faults associated with any of the 4 highlighted sections in the checklist (*i.e. surface irrigation, subsurface irrigation, chlorine disinfection, UV disinfection*) are considered to be critical and if the fault cannot be rectified during the service visit, it must be reported to the local council in the 'FURTHER ACTION REQUIRED' section.
13. 'Recreation and other areas' includes (but is not limited to) lawn, BBQ space and/or children's play equipment, washing line, tool shed, dog house etc.
14. 30 minute Sludge Volume test may be specified by manufacturers of batch reactor (aerobic only) type AWTSs.
15. Disinfection method is not applicable when effluent disposal is subsurface
16. UV lamp life should be equivalent to at least 3 months (i.e. until the next quarterly service).
17. For example: wet wipes, sanitary products.
18. Assessment of alum dosing may be specified by manufacturers of nutrient reduction type AWTSs.
19. Detail all faults that cannot be rectified during the service in the 'FURTHER ACTION REQUIRED' section. Do this by referencing the number of the relevant section, and specifying in more detail what action is required.