

Doc. B2 3d ~ Management Plan

Sewage Treatment Plant Management System

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Sewage Treatment Plant Management System

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1. Type of Sewage Treatment Plant

Type of sewage treatment plant	BIO-BUBBLE WASTE WATER TREATMENT PLANT
Population Equivalent	12 pe
Design Criteria	10 mg/l BOD 20 mg/l SS < 1 mg/l NH ₄ -N
Number of tanks	1 x Balance Tank 1 x Reactor

2. Monitoring & Maintenance Checklist

Item	Frequency				
	Daily	Weekly	Monthly	6 Monthly	Annually
Check that the no email or text alarms received from the plant	√				
Check the discharge point for any adverse visible effect on the receiving water, the bed of the watercourse, or any plants or animals within the watercourse.		√			
Check that the treatment plant is operating effectively, with no blockages, unusual noises or obnoxious odours.		√			
Ensure that the sample point is accessible. If it is not accessible ensure access is reinstated.			√		
Carry out de-sludging of the plant at timescale as specified by the manufacturer	Assess annually during service attendance				
Servicing of plant					√

4. Awareness Record

Name	Address		
Action	Date Due	Date Completed	Comments
Read & understood responsibilities required by the permit			
Aware of the purpose of the sewage treatment plant and restrictions on its use			
Aware of types of chemicals which may cause the sewage treatment plant to malfunction			
Aware of local sensitive sites			

5. Incident Record

Date and time of the incident	
What happened?	
Was anyone else aware of this – witnesses?	
What caused it?	
What action was taken to remedy the problem?	
What has been done to ensure that it does not happen again?	
Was there significant pollution – untreated sewage discharged? Yes/No	
If there was significant pollution the Environment Agency must be notified on 0800 807060 as soon as possible. Has this been done?	Yes/No/not applicable EA incident reference no.
Please print your name, sign and date	

6. Complaints Record

Who made the complaint?	Name:
	Address:
	Phone no:
Date & time complaint was made	
What happened?	
Was anyone else aware of this?	
What action was taken to remedy the problem?	
What has been done to ensure it doesn't happen again?	
Was there significant pollution – untreated sewage discharged? Yes/No	
If there was significant pollution the Environment Agency must be notified on 0800 807060 as soon as possible. Has this been done?	Yes/No/not applicable EA incident reference no.
Please print your name, sign and date	

7. Preventing Accidents

Possible Accident	What would the harm to the environment be?	How can the chances of it happening be reduced?	What to do if it happens
<u>Spillages</u>			
Overloading of treatment plant	Possible contamination of surrounding ground/ground water.	If expansion of the site is to take place, ensure that the STP is still suitably sized before works commence	Follow the spill response procedure. Call out maintenance provider to undertake repairs.
Spillages during de-sludging of the treatment plant		Ensure pipe integrity has been tested prior to use and operator observes correct de-sludging process	
Slow seepage of liquids from the treatment plant		Integrity of the treatment plant can be tested. Maintenance carried out in line with manufacturers instructions	
<u>Failure of Plant or Equipment</u>			
Releases of untreated sewage	contamination of surrounding ground/ground water.	Visual inspection Preventative maintenance regime	Follow spill response procedure Call out maintenance provider to undertake repairs

<u>Possible Accident</u>			
Harmful substances/objects entering the treatment plant e.g. cleaning chemicals, oils/fat/grease, nappies	Damage to the treatment plant and/or death of micro-organisms with possible subsequent contamination of surrounding ground/ground water.	Read and understand manufacturers guidance on what can be put down drains, sinks and toilets. Inform all guests of the restrictions. Display list of chemicals which are safe to use in an appropriate area	Follow spill response procedure Call out maintenance provider to undertake repairs If necessary arrange for the sewage to be tankered away to an appropriately licensed site
<u>Flood</u>			
Due to ingress of floodwater, blocked drains, burst water main	contamination of surrounding ground/ground water with untreated sewage and flood water	Ensure that no surface water/floodwater can enter the treatment works	Follow appropriate flood procedure e.g. use of sand bags
<u>Failure of Services</u>			
Due to failure of supply: electricity and sewage treatment plant Due to utility supply being struck and broken/cut	Possible contamination of surrounding ground/ground water with partially treated effluent	Provision of alarm on treatment works to warn operators of power failure.	Call out utility company for urgent call out. If necessary arrange for the sewage to be tankered away to an appropriately licensed site

<u>Vandalism</u>			
Unauthorised entry and tampering or malicious damage to property, plant and equipment	Possible contamination of surrounding ground/ground water.	Ensure that treatment plant is secure	Immediately secure the plant, arrange any necessary repairs, and follow the spill response procedure if a spill has occurred