

# RECOMMENDED PROCEDURE FOR SHUTTING DOWN WATER TREATMENT PLANTS

*When a water treatment plant is not in operation for prolonged periods, eg. summer holidays, we recommend the following procedure be implemented to avoid possible damage to the equipment on start-up after the shutdown.*

1. Set the filter press to work on time mode and run until it times out. In this way, the press will process all the sludge in the system until there is no more material in the silo/mixing tank.
2. Empty the sludge pit of as much sedimentation as possible, the pit should be left with only clear water inside.
3. Remove the submersible pump from the pit and wash it thoroughly with clean water. This will avoid the risk of mud inside the pump drying out and hardening.
4. Clean the filter press with fresh (or clarified) water, including the hole in the plates. It is also recommended to clean the drip tray where the sensor is located to ensure the sediment does not harden.
5. Empty and wash the sludge mixer tank using the discharge valve at the bottom of the tank for complete drainage. The mixer impeller needs to be clear of sludge which could harden and jam the unit on start-up after shutdown. Clean also the level sensors inside the mixer.
6. For systems that have a flocculant and/or coagulant dosing station the tank should either be emptied and cleaned, or water added so the fluid does not evaporate completely and harden. It is important to **NOT** use soap or any other products when completing this step.
7. If you have previously been shown how to disassemble the diaphragm pump and clean it with fresh water by a CDK Technician, then please do so to ensure the internals of the pump do not stick or harden after shutdown. Alternatively, run fresh water through the pump/system.

For all water treatment plants, it is important to drain and clean the water silo/clarifier periodically to prevent buildup on the sides of the silo and the flutes inside the clarifiers (ECS system). This should be done annually.

If you are unsure of how to complete any of the steps listed above, please call the Service Department and they can organise a phone call or technician to site to assist with completing the procedure.

For more advice or assistance please contact our Service Department on (03) 8552 6060.

CDK Stone Service Department

06/12/24