



**Document Owner: Manager Customer Planning** 

## **Wastewater Testing - Planned Maintenance**



#### Emergency

- In event of service strike to utility/energy source (e.g. fuel, Gas, Power, Water etc.) report immediately to team leader
- Make "Site Safe" and isolate risks to people or property with resources at hand

#### Escalate if extra resources required or problems occur!

- Escalate to Team Leader and inform of the issues faced and/or expected resources required if necessary.

**REPORT** If event is expected to have a duration of greater than 4 hours of no service, then escalation to enable alternate supply provisions must be undertaken via Team leader. If there are, either Vulnerable or Priority customers affected by the Water Off / Isolation period, the team leader should be notified of those customers.

### **Required Skills, Competencies (Qualifications and/or Certifications)**

Competent persons only Annual calibration - External service provider

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# **Wastewater Testing - Planned Maintenance Standard Operating Procedure**

Required Equipment				
Equipment and Information	Details			
See Pre- Start Planned	Resource as per Pre Start Planned Maintenance.			
Maintenance				
Specialist equipment	Ensure specialist equipment required is available for utilisation.			
	Testing equipment			
	Calibration equipment			
	Cleaning chemicals			
	• PPE			
	Manuals as required for specialist equipment			
Fully Equipped Vehicle	Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is			
	available.			

### Prepare to do the work

Action	Action Details		
Pre Start Process 1	Complete the Daily Pre Start Planning Planned SOP		
Pre Start Process 2	Complete the Generic Planned Maintenance SOP		
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMI		
	to be accessible on site.		
Shut Down Planned	As required		
Utility Requirements	As required		
(power off water off etc)			
Notifications	As required		
Parts	As required		
Equipment	As required MUST ALWAYS BE KEPT CLEAN		
Prior to Testing	1. Remove calibration/storage cap and fit the sensor guard to protect the sensor and membrane while in use.		
	Place the probe in the sample and measure; gently agitate to release any air bubbles.		
	2. Allow the readings to stabilize before recording results		
List Affected Customers	List affected customers - Identify all addresses affected by network isolation / water shut off		

### Perform the work

Action	Trade	Action Details
ТМР	Competent Person	Implement TMP. Review and update as appropriate to suit site conditions.
Maintenance	Competent Person	Membrane and electrolyte solution to be changed as per manufacturer's instruction.
Maintenance	Competent Person	pH & D.O calibrated at least once a month. Calibrate as per manufacturer's instruction.
Maintenance	External service provider	Calibrate the testing instrument on an annual basis.
Temperature	Competent Person	Submerge the temperature probe into the sample and wait for the reading to stabilise. Temperature results are typically quick and accurate.
Conductivity	Competent Person	Submerge the conductivity probe into the sample and wait for the reading to stabilise. Make sure no air bubbles are trapped in the sensor area. If readings are slow to settle, cleaning of the sensor may be necessary to maintain accuracy and increase the responsiveness.
рН	Competent Person	Clean the probe with water and dry it with a tissue. Submerge the probe into the sample and stir the probe to homogenise the sample. Wait for the reading to stabilise
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Action	Trade	Action Details
		pH results normally take a couple of minutes to settle.
		Regular reading with buffers is required to check accuracy.
		If readings are slow to settle, cleaning of the pH probe may be necessary to maintain accuracy and increase the responsiveness.
Dissolved	Competent Person	This may take several minutes to settle.
Oxygen		If placing the DO sensor into fast flowing waters it is best to place it perpendicular to the flow and NOT facing into the flow.
		If using the DO sensor in an aeration tanks or heavily aerated flows make sure that the probe base is facing upwards preventing bubbles forming on the membrane surface, this may require doubling back the probe and cable tying probe to the cable.
		If results have poor repeatability or are slow to settle, replace the membrane and
		solution, also buffing the cathode may be necessary to maintain accuracy and increase the responsiveness.
On Completion	Competent Person	Remove sensor guard flush the sensor and membrane with water to prevent contamination
		DO NOT use deionised water
		Replace calibration/storage cap ensuring the sponge inside is damp to prevent the sensor and membrane from being damaged.
		Decontaminate to minimise personal infection or cross contamination of potable water supplies.