

Standard Operating Procedure

SOP Number: **02-18-4151**
Service: **Research**
Operating Section: **Husbandry**
Unit: **CMF**
Title: **Free Chlorine Test**

Purpose:

To outline instructions for performing the free chlorine test within the medium range at the automatic watering source (039).

Procedure:

- 1) Activate power to the meter. The measurement screen displays.
 - 2) If **HR** (High Range) is not selected, select **HR**.
 - 3) Select **Save**, then **HR** is saved.
 - 4) Open the bottle and rinse it 3 times with water taken from the valve after the holding tank which is after chlorine injection.
 - 5) Fill the bottle to the **5 ml** mark with the water to be tested.
 - 6) Replace the cap and wipe off any liquid or fingerprints on the bottle.
 - 7) Remove the test meter cap and place the bottle into the holder with the flat edge facing the keypad.
 - 8) Place the meter cap over the bottle.
 - 9) When **0.0** displays, the meter is zeroed.
 - 10) Remove the meter cap.
 - 11) Remove the bottle from the holder and pour the contents of two DPD free chlorine reagent packets into the bottle.
- IMPORTANT:** Perform steps 12 through 16 within one minute of adding reagent.
- 12) Replace the cap on the bottle and gently shake the bottle for 20 seconds.
 - 13) Wipe off any liquid or fingerprints on the bottle.
 - 14) Place the bottle into the holder with the flat edge facing the keypad.
 - 15) Place the meter cap over the bottle.
 - 16) Within one minute, the chlorine concentration displays on the meter screen. Record the reading.
 - 17) Turn off power to the meter.
 - 18) Remove the meter cap from the meter and then remove the bottle from the holder.
 - 19) Discard test solution, rinse bottle, and allow bottle to air dry before placing bottle in test kit container.
 - 20) Place the meter cap on the meter and place the meter into the test kit container.
 - 21) Record the reading on the Automatic Watering System Free Chlorine Test log.

OFFICE USE ONLY:**APPROVALS**

Responsible Official Signature	<i>[Signature]</i>	Date	4/26/18
QA Signature	<i>[Signature]</i>	Date	04/26/2018
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