**Practical) Measuring Abiotic Factors**

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| **Abiotic Factor** | **Equipment used and/or method** | **Measurement** | **Qualitative or Quantitative** |
| 1. Temperature |  |  |  |
| 2. Oxygen concentration |  |  |  |
| 3. Humidity |  |  |  |
| 4. Light intensity |  |  |  |
| 5. Wind direction and speed |  |  |  |
| 6. Soil pH | Collect a small sample of soil in the Petri dish and make it into a paste by adding water. Sprinkle the moist soil with barium sulfate powder then add drops of universal indicator over the white powder. Use the colour chart provided with the indicator to identify the pH of the soil.  Or  Add a small sample of soil to a test tube with about 5mL of water. Shake for 5-10 seconds and filter contents. Use the colour chart provided with the indicator to identify the pH of the soil. |  |  |
| 7. Water pH | Place 5 mL of water sample A in a test tube. Add 3 drops of universal indicator. Compare the colour obtained to the colour chart provided and record the pH of the water sample. Repeat using water sample B. |  |  |
| 8. Water salinity | Place 10 mL water collected from the site in a test tube. Add 3 drops of silver nitrate solution. Note whether the sample remains clear or becomes cloudy. |  |  |