

Session 2

FIELD SAMPLING

(Classroom and in field, Ganges Harbour)

Theme: Biological life is interconnected with its physical and chemical environment

Objectives:

- ✧ To demonstrate field protocols for measuring pH, temperature, transparency, salinity, and dissolved oxygen in water.
- ✧ To observe and record life within the water habitat.
- ✧ To review and compare the different measurements between the different water sites.
- ✧ To review and compare life found at the different sites.

Duration: 90 min

Set-up: Field sampling equipment and data sheets, etc for each group; also walkie-talkies for adults

Sampling sites: creek by Artspring; estuary by Island Escapades; floatplane dock; Kanaka Wharf

ACTIVITY	TIME	EQUIPMENT
<p>Introduction: Distribute field journals. Students organize into groups. Students reminded of their sampling location (creek by Artspring, estuary by Island Escapades, outer dock of Kanaka Wharf, floatplane dock). Adults assigned to each group. Review of past session – water parameters. Students make relative predictions (least, greatest, same) between the sites for values of the different parameters in their journals. Review journal data page, drawing page, data sheet, and to do each measurement 3 times and take the average. In each group, one student is assigned as the recorder and will record the data onto the group’s data sheet. One student responsible for the equipment. Every student responsible for entering data into their field journals for each test. If there is a student photographer and reporter for the class, they are acknowledged.</p>	10 min	

SSI Conservancy Stewards in Training Program

ACTIVITY	TIME	EQUIPMENT
<p>Activity:</p> <p>Assemble in groups and gather sampling equipment and clipboard with data sheet and protocols.</p> <p>Walk to sampling site with adult.</p> <p>Field sampling</p> <p>Return to Classroom</p>	<p>10 min</p> <p>45 min</p> <p>10 min</p>	<p>All equipment as for Session 1 plus:</p> <p>Data sheets – 4</p> <p>Hipwaders</p> <p>Walkie-talkies</p> <p>Marine field guides</p> <p>Dip net</p>
<p>Clean up/Tabulation/Review/Reflection</p> <p>Return field equipment cleaned, tabulate results.</p> <p>Class discussion of data – predictions in field journal, comparison between sites.</p>	<p>15 min</p>	