

situations and from as widely separated parts of the island as possible, including:—

- (1) The shore of the St. Lawrence at Verdun.
- (2) The quarries at Amherst Park.
- (3) The ponds and streams on Mount Royal.
- (4) The Back River and brooklets emptying into it at Sault au Recollet.
- (5) The shores of the St. Lawrence at Rivière des Prairies at Bout de l'Île.

(1) VERDUN:

Here, just opposite Nun's Island, the river is very shallow near the shore and abounds with small islands among which it runs slowly, forming a low, swampy tract of land. Reeds, rushes and sand-bar willows (*Salix longifolia*, Mühl) line the water edge, and a great variety of water weeds, such as *Nymphae*, *Utricularia*, *Elodea* and *Myriophyllum*, grow partly submerged in the shallow water. Entangled with these and also floating freely in the water, I found a great number of species of *Zygnema* and *Spirogyra*, also a very little *Oscillatoria*, some *Nostoc*, *Pediastrum* and quantities of *Desmids*. Some *Diatoms* were secured attached to filaments of *Cladophora*, which was found in abundance growing fastened to stones. A pool inside of the old river dyke contained an enormous amount of *Lemna*; and, in March, *Chætophora* was found growing in a thin film on the sides of the aquaria in which some of this *Lemna* had been placed. Leaves of *Nymphaea*, tufts of *Elodea canadensis* and other water weeds were collected and washed, to secure forms attached to them. When this locality was visited, on the 30th of September, the water was quite warm and abounded in animal life. I noted that, although there were many species of algae present, there were comparatively few individuals. *Ulothrix* occurred in tufts, unmingled with other forms, but *Spirogyra* and *Zygnema* were always associated with each other. No