Central Davis Sewer District Algal ID and Enumeration Report

Prepared: May 11, 2017
Prepared By: GreenWater Laboratories

Samples: 1 (Collected on 5/4/17)

1. FB 4

Sample 1: FB 4

Total cell numbers in the FB 4 sample collected on 5/4/17 were 50,489 cells/mL. Green algae (Chlorophyta; 44,117 cells/mL) were the dominant algal group in the sample accounting for 87.4% of total cell numbers. Other algal groups in the sample were diatoms (Bacillariophyceae; 213 cells/mL), cryptophytes (Cryptophyta; 314 cells/mL), blue-green algae (Cyanobacteria; 5,049 cells/mL), euglenophytes (Euglenophyta; 168 cells/mL) and microflagellates (Miscellaneous; 628 cells/mL). The most abundant algae in the sample were the colonial chlorophyte *Mychonastes* (18,064 cells/mL; Figs. 1-2) and small, spherical chlorophyte unicells (16,964 cells/mL; Fig. 3). A total of 35 species were observed in the sample.

Total cell numbers of potentially toxigenic cyanobacteria (PTOX Cyano) were 22 cells/mL (0.04% of total cell numbers). PTOX Cyano species observed in the sample included *Pseudanabaena catenata* (22 cells/mL; Fig. 4).

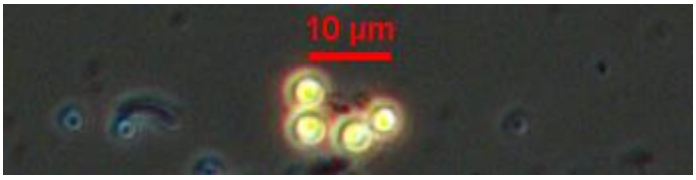

Fig. 1 *Mychonastes* sp. 400X (scale bar = 10µm)

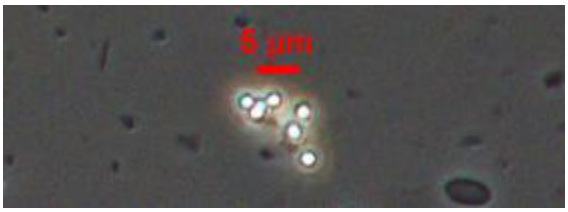

Fig. 2 *Mychonastes* sp. 400X (scale bar = 5µm)

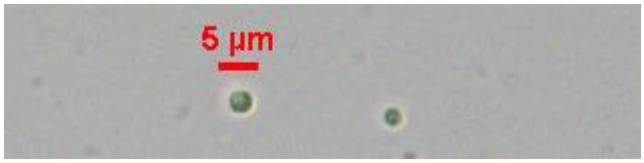

Fig. 3 chlorophyte unicells 400X (scale bar = 5µm)

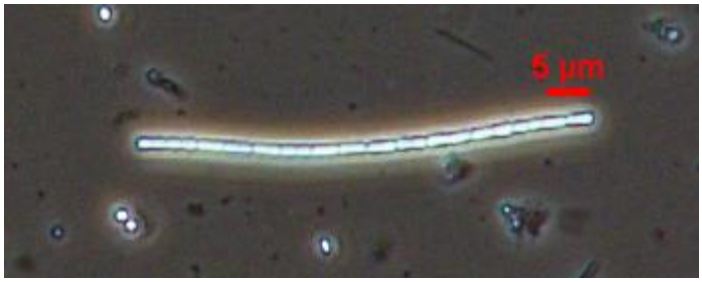

Fig. 4 *Pseudanabaena catenata* 400X (scale bar = 5µm)