

Central Davis Sewer District Algal ID and Enumeration Report

Prepared: June 14, 2018

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Samples: 1 (Collected on 5/30/18)

1. FB4

Sample 1: FB4

Total cell numbers in the FB4 sample collected on 5/30/18 were 454,900 cells/mL. Blue-green algae (Cyanobacteria; 360,671 cells/mL) were the dominant algal group in the sample accounting for 79.3% of total cell numbers. Other algal groups in the sample were diatoms (Bacillariophyceae; 10,476 cells/mL), green algae (Chlorophyta; 77,025 cells/mL), cryptophytes (Cryptophyta; 349 cells/mL), dinoflagellates (Dinophyta; 12 cells/mL), euglenophytes (Euglenophyta; 84 cells/mL) and unknown flagellates (Miscellaneous; 6,283 cells/mL). The most abundant alga in the sample was the filamentous cyanophyte *Nodularia spumigena* (280,736 cells/mL; Fig. 1). A total of 38 species were observed in the sample.

Total cell numbers of potentially toxigenic cyanobacteria (PTOX Cyano) were 280,736 cells/mL (61.7% of total cell numbers). *Nodularia spumigena* (280,736 cells/mL) was the only PTOX Cyano species observed in the sample.



Fig. 1 *Nodularia spumigena* 400X (scale bar = 2 μ m)