

## Central Davis Sewer District Algal ID and Enumeration Report

Prepared: August 31, 2017

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Samples: 1 (Collected on 8/10/17)

1. FB 4

### Sample 1: FB 4

Total cell numbers in the FB 4 sample collected on 8/10/17 were 6,965,123 cells/mL. Blue-green algae (Cyanobacteria; 6,728,823 cells/mL) were the dominant algal group in the sample accounting for 96.6% of total cell numbers. Other algal groups in the sample were diatoms (Bacillariophyceae; 183,792 cells/mL), green algae (Chlorophyta; 20,963 cells/mL), cryptophytes (Cryptophyta; 3,142 cells/mL), dinoflagellates (Dinophyta; 130 cells/ml) and unknown flagellates and unicells (Miscellaneous; 28,274 cells/mL). The most abundant algae in the sample were the filamentous cyanophytes *Pseudanabaena catenata* (4,178,285 cells/mL; Fig. 1) and *Pseudanabaena* sp. (1,256,627 cells/mL; Fig. 2). A total of 34 species were observed in the sample.

Total cell numbers of potentially toxigenic cyanobacteria (PTOX Cyano) were 6,059,048 cells/mL (87.0% of total cell numbers). PTOX Cyano species observed in the sample included *Pseudanabaena catenata* (4,178,285 cells/mL), *Pseudanabaena* sp. (1,256,627 cells/mL) and *Nodularia spumigena* (624,136 cells/mL; Fig. 3).



Fig. 1 *Pseudanabaena catenata* 400X (scale bar = 5µm)

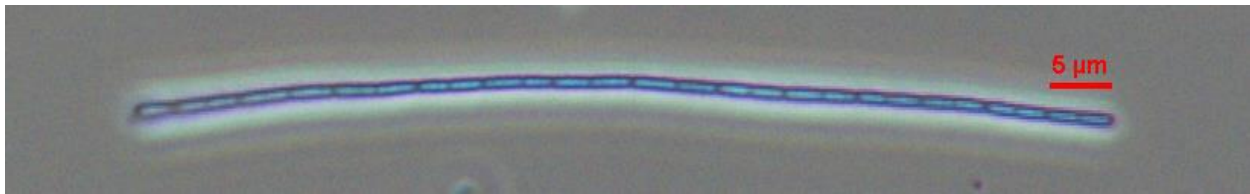


Fig. 2 *Pseudanabaena* sp. 400X (scale bar = 5µm)



Fig. 3 *Nodularia spumigena* 400X (scale bar = 5µm)