

FDEP Laboratory, Biology Program, Algal Taxonomy Summary Report

Report Date: 3/30/2016
Report sent by: Cheryl Swanson, 850-245-8171, Cheryl.Swanson@dep.state.fl.us
Request ID: RQ-2016-03-14-06
Event ID: WTRSHD-MGT-2016-03-29-01
Sample ID: 1784274
Analysis: ALGAL_ID
Collector: SPRG1601
Site Location: 9717
Field ID: BIG BLUE SPRING (JEFFERSON)
Date Collected: 3/29/2016 11:27
Date Received: 3/29/2016 16:01
Sample container: Medium plastic bag
Sample preservation: None
Analyst(s): Isaura Lorenzo-Perez and Maosen Hua
Sample notes: The sample was full of aquatic macrophytes, *Hydrilla verticillata* and *Cabomba caroliniana*. Algae appeared healthy and alive. The sample was dominated by diatoms, with a few filamentous wet algae also present. A high density of diatoms can cause yellowish-brown discoloration in the sample.

Result:	Class	Toxin potential *
The co-dominant diatom taxa were:		
<i>Eunotia</i> sp.	Class Bacillariophyceae	-
<i>Aulacoseira granulata</i>	Class Bacillariophyceae	-
Other taxa present:		
<i>Plectonema wollei</i> (aka <i>Lyngbya wollei</i>)	Class Cyanophyceae	yes
<i>Lyngbya</i> sp.	Class Cyanophyceae	undetermined
<i>Oscillatoria</i> sp.	Class Cyanophyceae	undetermined
<i>Pseudanabaena</i> sp.	Class Cyanophyceae	undetermined
<i>Oedogonium</i> sp.	Class Chlorophyceae	-
<i>Rhizoclonium hieroglyphicum</i>	Class Chlorophyceae	-
<i>Mougeotia</i> sp.	Class Chlorophyceae	-
<i>Spirogyra</i> sp.	Class Chlorophyceae	-
<i>Vaucheria</i> sp.	Class Xanthophyceae	-
<i>Compsopogon coeruleus</i>	Class Rhodophyceae	-

* Information based on literature searches and personal communications; information is continually being updated. "Undetermined" refers to specimens for which the lowest practical level of taxonomic identification is genus and some, but not all, species within that genus have the potential to produce toxins or toxin information not available for the identified species but is available for genus level.