

# 2021 East Twin Aeration Mapping Data

The following professional electronic mapping of the aeration/diffuser area in East Twin Lake was performed in October of 2019 when the new diffusers were initially installed, and in May of 2021 when all of the diffusers were professionally cleaned.

Going forward, we will have the same aeration area mapped each spring for comparison from year to year. This will allow for pictorial data comparisons each year.

Two sets of data shown in the following pages were collected in the aeration area of East Twin Lake during the mapping program.

Note:

- In the pictured maps, the top right corner is the Buttles Road launch areas of East Twin.
- The lower left area is just south of the Marina in the south west corner of East Twin Lake.

## **The data collected is:**

- A. Lake Bottom Composition (an indication of muck concentration)
- B. Vegetation Bio Volume (an indication of weed grown on our lake bottom)

### **A. Lake Bottom Composition (an indication of muck concentration)**

- This measures the hardness of the lake bottom in the aeration area. You can compare Oct, 2019 versus May 2021 pictorially.

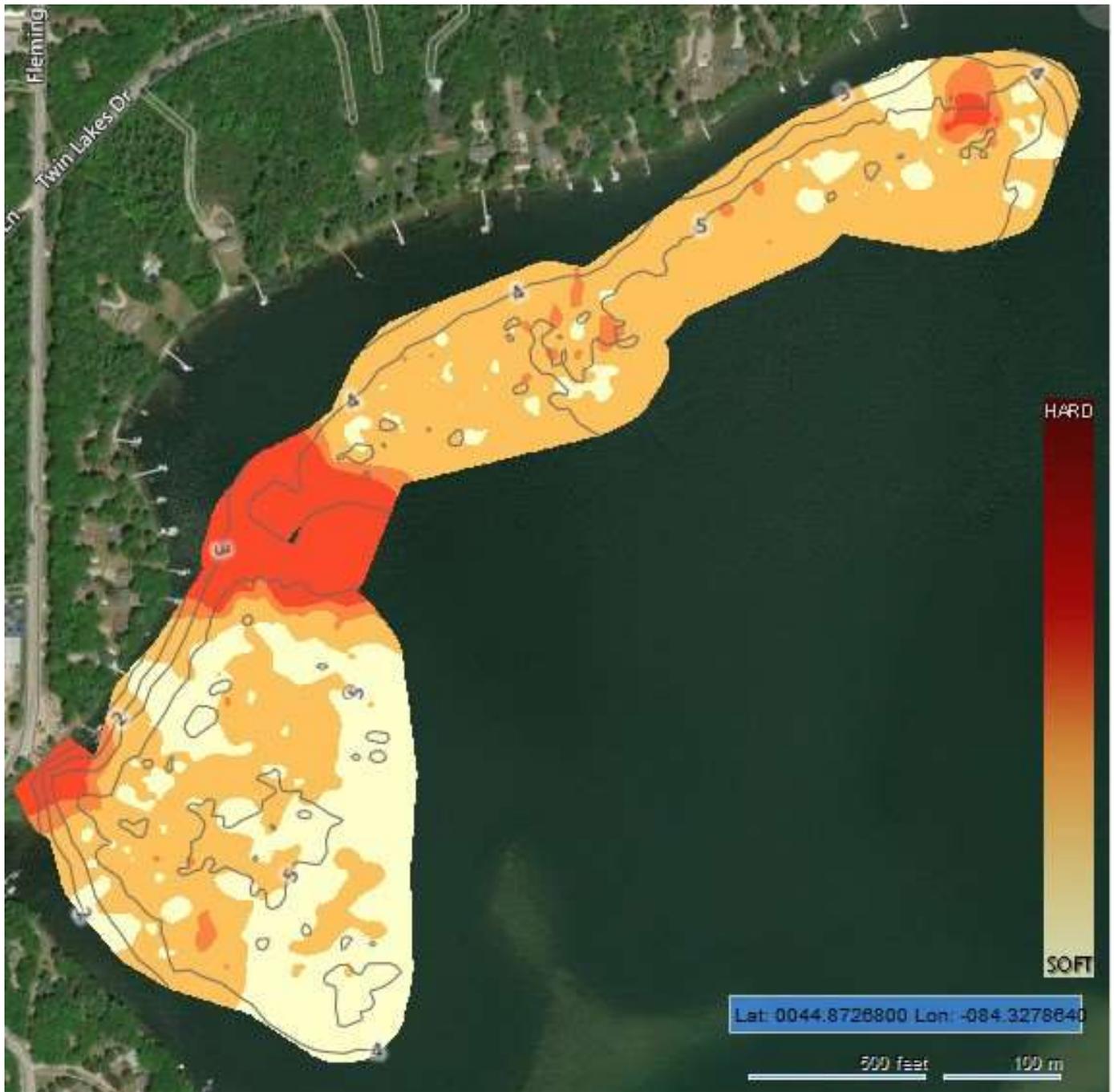
- In the two **Bottom Composition** charts, RED indicates a Hard Bottom and LIGHT TAN indicates a Soft Bottom (or more muck).

- As you can see, in 2019 there were a few areas with a hard bottom and larger areas with a soft bottom (or mucky areas). In 2021, there is a more extensive distribution of a harder bottom in the aeration area. I interpret this as progress for our muck reduction program.

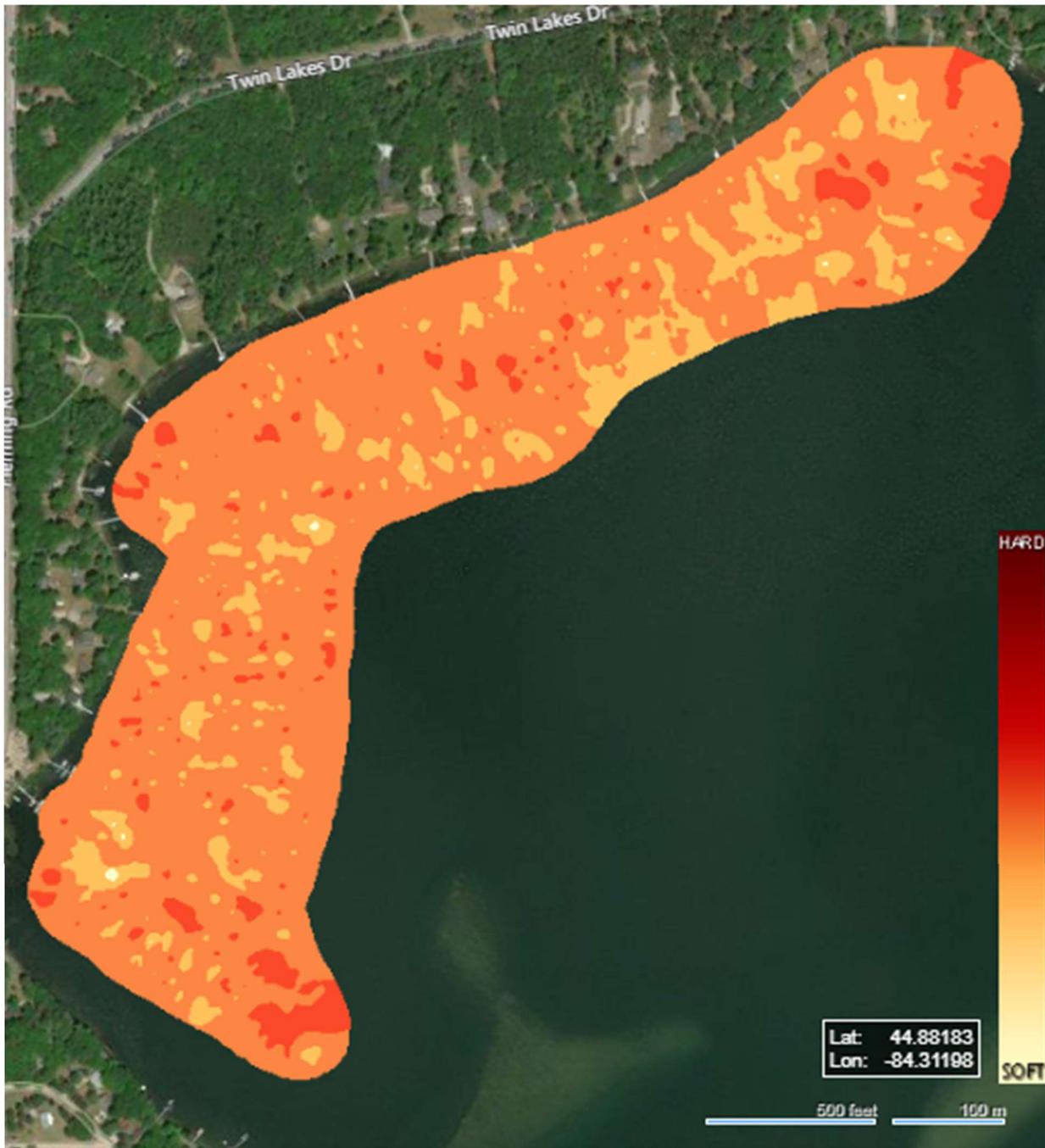
### **B. Vegetation Bio Volume (an indication of weed grown on our lake bottom)**

- Note because of the seasonal difference when the data was collected, this is not a good apples to apples comparison. (In the future, all data will be collected in the May time frame each year)

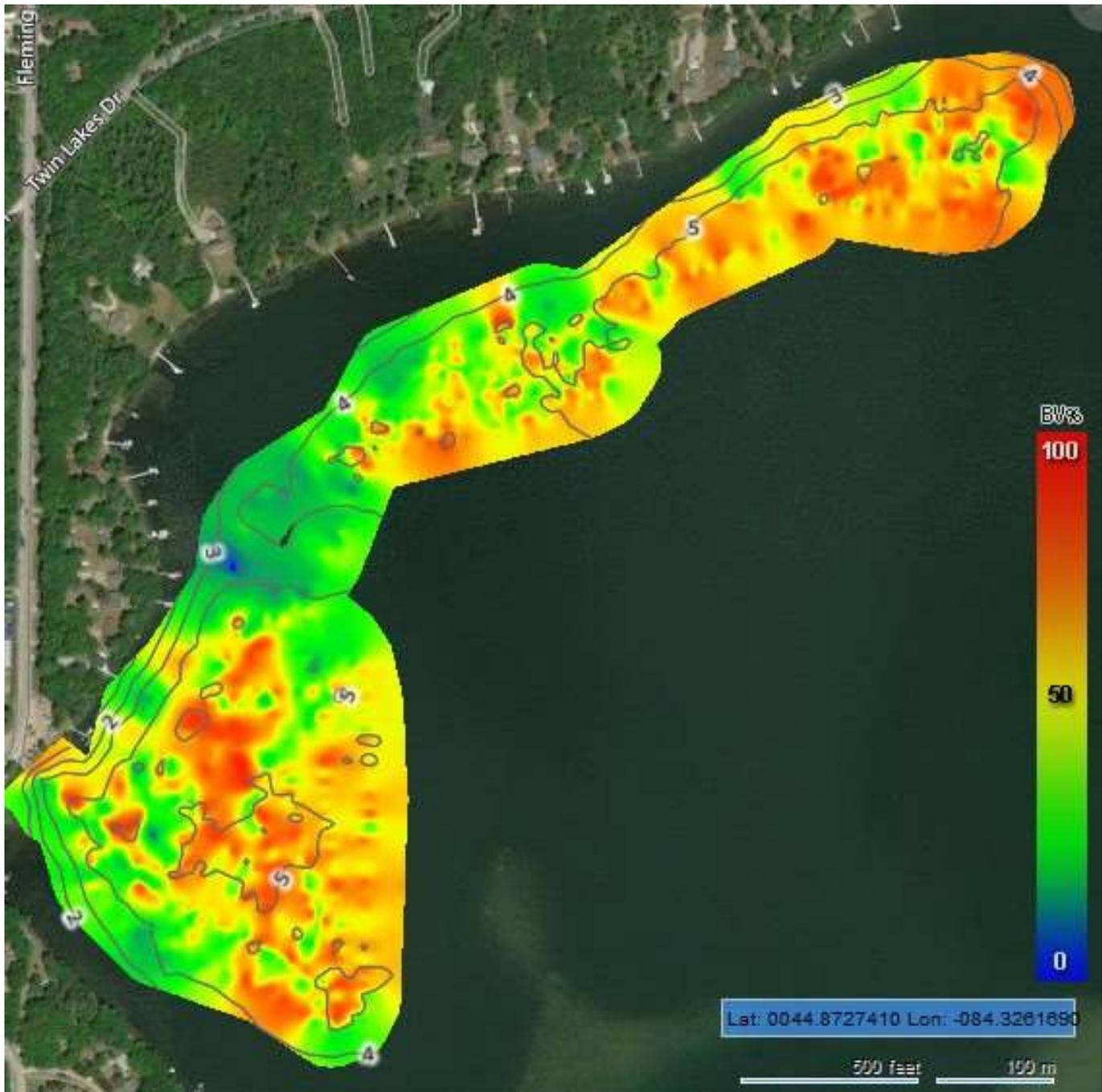
- Note that for the Aeration area in the Spring of 2021, there is less vegetation or weed growth in the lake; as compared to the vegetation that is highlighted in the Fall of 2019. This represents the type of normal weed growth we see each year during the spring to fall time period.



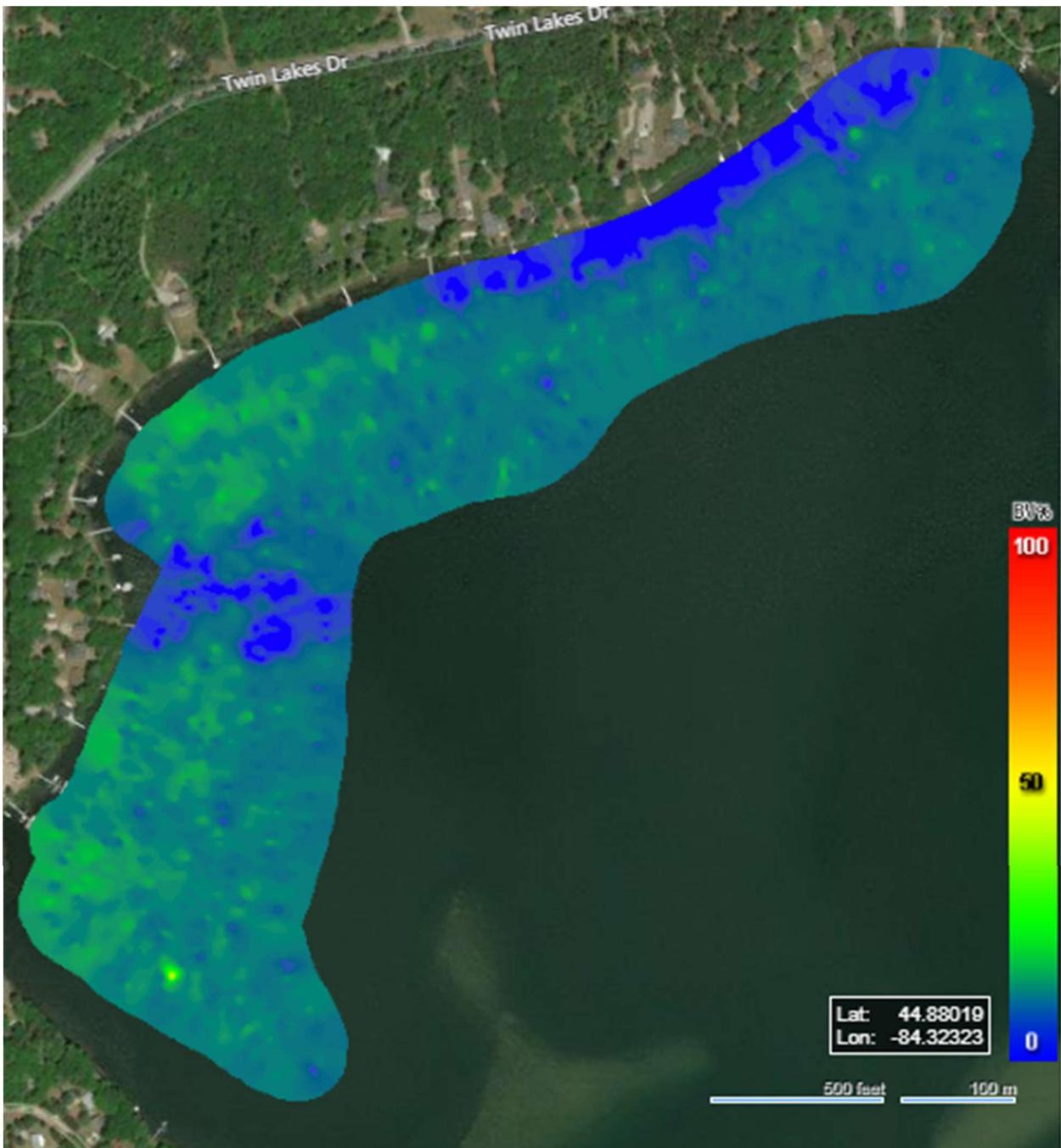
**Bottom Composition 10-15-19**



**Bottom Composition 5-18-21**



**Vegetation Biovolume 10-15-19**



**Vegetation Biovolume 5-18-21**