



**Sweetwater Lake - 275 acres/122 acres inside No Wake Buoy (fast area)**

**Green Line - 200' either side of Scott Casey's proposed wake surfing course (approx.)**

Based on boat industry paid for Numerical Study that says wake surfing 200' from shore causes minimal impact. Same study says waves take 984 ft for wake surf waves to dissipate before reaching shore.

**Purple Line - 500' either side of the proposed course**

Based on 2022 University of MN St. Anthony Falls Laboratory scientific study w/ input from MN Dept. Of Civil Environmental and Geo-Engineering recommends 500' distance to shore for wake boat and 425' for non wake boat wake surfing AND Michigan DNR 2022 recommend wake boats operate 500' from docks and shorelines.

**Orange Line - 1000' either side of the proposed course**

Based on Michigan DNR wake boat waves take up to 1000' to dissipate and Final Report of the Commission to Study Wake Boats in New Hampshire 2020 states can allow Dept. Of Safety to prohibit wake surfing within 300' of shore including coves less than 1,000' in width.

**Yellow Line - current buoy placement (approx 50' from shore)**

Note: You can find a spreadsheet compiling 100s of pages of research on wake boats, wake surfing and the waves created, with data listed by study and page number with the CSCD Board Minutes February or March 2023

## Cordry Lake - 160 acres/63 acres inside No Wake Buoys (fast area)

**Pink Line - Scott Casey's proposed wake surfing course (approx.)**

**Green Line - 200' either side of proposed course**

Based on boat industry paid for Numerical Study that says wake surfing 200' from shore causes minimal impact. Same study says waves take 984 ft for wake surf waves to dissipate before reaching shore.

**Orange Line - 500' either side of proposed course**

Based on 2022 University of MN St. Anthony Falls Laboratory scientific study w/ input from MN Dept. Of Civil Environmental and Geo-Engineering recommends 500' distance to shore for wake boat and 425' for non wake boat wake surfing AND Michigan DNR 2022 recommend wake boats operate 500' from docks and shorelines.

**Red Line - 1000' either side of proposed course**

Based on Michigan DNR wake boat waves take up to 1000' to dissipate and Final Report of the Commission to Study Wake Boats in New Hampshire 2020 statues can allow Dept. Of Safety to prohibit wake surfing within 300' of shore including coves less than 1,000' in width.

**Yellow Line - current buoy placement (approx 50' from shore)**

Note: You can find a spreadsheet compiling 100s of pages of research on wake boats, wake surfing and the waves created, with data listed by study and page number with the CSCD Board Minutes February or March 2023



