# River Oaks HOA

c/o Paramont Property Management
5629 Strand Blvd, Suite 412
Naples, FL 34110

9/24/2018

**Bathymetry of North Pond**
Pond Properties
Perimeter, Acreage, Depth & Volume

*Prepared By*


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On September 24, 2018, the north pond at the River Oaks community in Naples, FL was sounded to ascertain baseline measurements for addressing algae issues relating to pond and sediment volume. Each sounding was associated with its respective GPS coordinates. The shoreline was also plotted for the pond. With this information, an underwater map or bathymetry has been created for the selected pond. These measures are necessary 1) to determine the present volume of the pond which will then be added to the volume of the accumulated sediments in subsequent coring analysis for potential total capacity and 2) to calculate more precisely the amount of herbicide required for potential volumetric applications. Note, the bathymetry is relative to the day the field samples were taken. On this day, the water levels were approximately at control elevation corresponding with the wet season high water level. The chart below indicates mean depth, acre-feet and volume in gallons on the day of sampling. If needed, the same parameters can be provided based on differing levels than that of the sample day

**River Oaks North Pond**

| Pond # | Perimeter (ft.) | Acres | Mean Depth (ft) | Acre-Feet | Volume (Gallons) |
|---|---|---|---|---|---|
| North | 2050 | 3.5 | 4.6 | 15.92 | 5,190,000 |

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*Ecological Designs & Environmental Solutions in SW Florida*
Ponds and Preserves / Lake Aeration Systems
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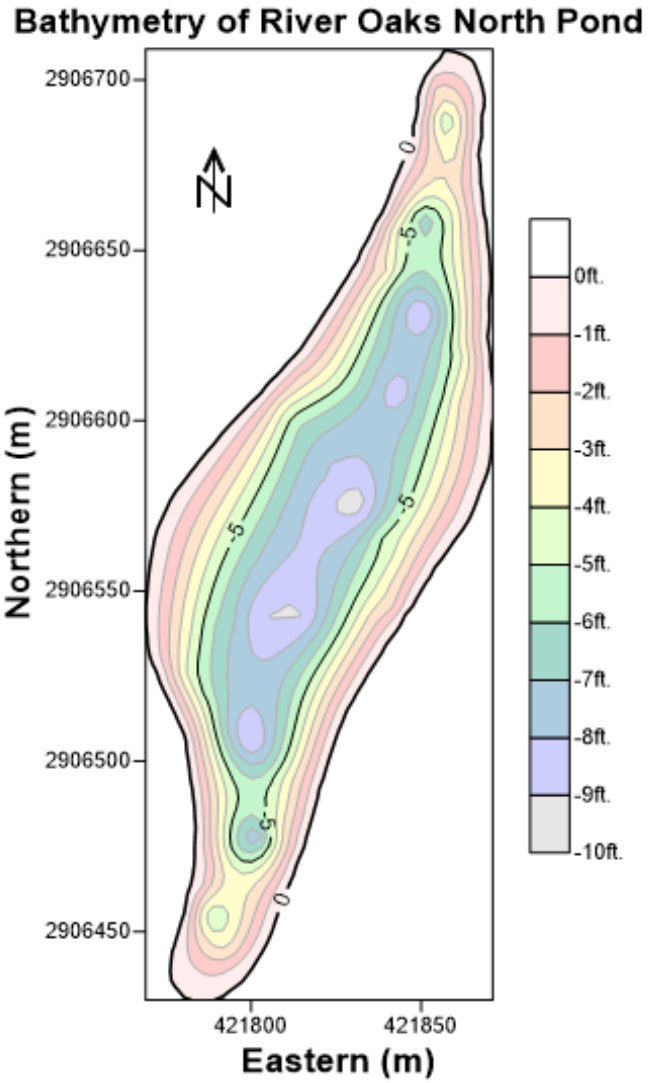
**River Oaks**
North Pond

Perimeter: 2,050 ft. Area: 3.5 acres Mean Depth: 4.6 ft. Volume: 15.92 Acre/ft or 5,190,000 gallons