

Holly Lake Ranch
Mr. Rob James
220 Holly Lodge Circle
Holly Lake Ranch, TX 75765



25 March 2011

Rob,

I conducted my March site visit to treat vegetation and collect water chemistry data from the big lake at Holly Lake Ranch on 23 March 2011. Water chemistry parameters fell within the acceptable or desirable ranges. From a fish and wildlife perspective the lake looked very good. There was some nuisance vegetation scattered around the lake that was treated. Although we pick up trash while circling the lake it is very clean, and shows the residents and your staff take good care of it.

Below are the results from water chemistry parameters tested at three locations around the lake. Site one is out from the dam, site two was half way to three-quarters up the East Fork and the third was about the same distance up the West Fork. Dissolved Oxygen (DO) was good to 19 ft, with the remaining six feet below desirable, but still able to support fish. This is normal in deep lakes and will fluctuate during the year as water temperatures go up and down. There is an algae bloom (green water) occurring, which again from a fishery standpoint is a good thing and helps the lake support a lot more fish. Visibility was around 30 inches and is good as long as it does not get below 16 inches, then there are too many nutrients flowing into the lake. The algae bloom also helps reducing light penetration into the water and reduces submerged vegetation and filamentous algae growth, reducing the need for herbicide treatment. Also attached to the E-Mail was a document to better help you understand what the water chemistry results mean in detail.

The species of plants treated included coontail, purple fanwort and filamentous algae. A spray of Diquat and Hydrothol 191 was used to spot spray approximately ½ acre total of coontail along the shore mostly around docks and at the boat ramp. Some was left around the lake where it was not an eye-sore or it did not hinder dock access. Coontail is a quality plant habitat species for fish. The last two docks up the West Fork were treated with a copper based granular herbicide for filamentous algae, as it was by far the worst in that location than anywhere else around the lake. I also sprayed approximately 8-10 small woody trees (sweetgum) on the dam. Hardwoods should never be allowed to grow on the dam as they can weaken and eventually cause a dam failure if allowed to grow. Other than those we did not spray anything else on the dam as soft tissue vegetation helps prevent erosion from run off and wave action. None of the herbicides prevent growth, if it was not there it did not get treated, and can start to grow now or become visible and will continue to grow until our next visit, but once we can see it we can treat it.

We will be back in April (April 20 or 21st) to collect water chemistry and treat nuisance vegetation again. By then filamentous algae may be more prevalent. As always, thank you for your patronage and if you have any questions before my next visit, do not hesitate to E-Mail or call. I will be out of the state until my next visit, which this is the only month that will happen throughout the year, so if you need to contact me please call my mobile telephone and leave a message and I will get back with you as soon as I get off the water, or can get cell service, as some of our clients property's are in remote areas.

Sincerely,

Scott Brown

Southern Sportsman Aquatics & Land Management, L.L.C.
1234 Rio Grande Drive, Allen Texas 75013, (214) 383-3223
tazmanlabs1@sbcglobal.net
southrensportsmanaquaticsandland.com

Big Lake Holly Lake Ranch Out from Dam 3/23/11

- Sample Time: 9:30 AM
- Air Temp: 68.8° F
- Cloud Cover: 70%
- Wind Speed & Dir: SW 3 mph
- Water Temp Surface: 66.2° F
- Water Temp Bottom (24 ft): 51.4° F
- DO Surface: 9.9 mg/l
- DO Bottom (24 ft): 2.1 mg/l
- pH: 7.0
- Conductivity: 98 uS/cm
- Salinity: 0.05 ppt
- Ammonia: 0.8 ppm
- Nitrites: 0 ppm
- Alkalinity: 28 ppm
- Carbon Dioxide: 4 ppm
- Chlorides: 18 ppm
- Hardness: 36 ppm
- Visibility: 34 in
- Thermo-cline Depth: 19 ft

Big Lake Holly Lake Ranch East Fork 3/23/11

- Sample Time: 10:15 AM
- Air Temp: 70.1° F
- Cloud Cover: 55%
- Wind Speed & Dir: SW 5 mph
- Water Temp Surface: 68.9° F
- Water Temp Bottom (8 ft): 68.4° F
- DO Surface: 9.6 mg/l
- DO Bottom (8 ft): 9.4 mg/l
- pH: 7.8
- Conductivity: 95 uS/cm
- Salinity: 0.04 ppt
- Ammonia: 0.8 ppm
- Nitrites: 0 ppm
- Alkalinity: 28 ppm
- Carbon Dioxide: 6 ppm
- Chlorides: 36 ppm
- Hardness: 40 ppm
- Visibility: 30 in
- Thermo-cline Depth: None

Big Lake Holly Lake Ranch West Fork 3/23/11

- Sample Time: 11:00 AM
- Air Temp: 72.5° F
- Cloud Cover: 30%
- Wind Speed & Dir: SW 8 mph
- Water Temp Surface: 69.2° F
- Water Temp Bottom (12 ft): 67.9° F
- DO Surface: 10.1 mg/l
- DO Bottom (12 ft): 8.9 mg/l
- pH: 7.9
- Conductivity: 99 uS/cm
- Salinity: 0.05 ppt
- Ammonia: 1.25 ppm
- Nitrites: 0 ppm
- Alkalinity: 36 ppm
- Carbon Dioxide: 5 ppm
- Chlorides: 36 ppm
- Hardness: 36 ppm
- Visibility: 28 in
- Thermo-cline Depth: None