

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



25 April 2011

Rob,

I conducted my April site visit to treat vegetation and collect water chemistry data from the big lake at Holly Lake Ranch on 22 April 2011. Water chemistry parameters fell within the acceptable or desirable ranges. From a fish and wildlife perspective the lake looked very good. There were lots of active bream and still a few largemouth bass beds observed. There was less nuisance vegetation scattered around the lake that was treated than during the March treatment. No trash was observed in the lake.

Below are the results from water chemistry parameters tested at the 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 20 ft, with the remaining nine feet below desirable, and unable to support fish. This is normal in deep lakes as the water warms at the top and will fluctuate during the year as water temperatures go up and down. There is a slight algae bloom (green water) occurring (not as dense as last month), which again from a fishery standpoint is a good thing and helps the lake support a lot more fish. Visibility was around 42 inches and is fair. An algae bloom also helps reduce light penetration into the water and reduces submerged vegetation and filamentous algae growth, reducing the need for herbicide treatment.

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 $\frac{1}{4}$ acre total along the shore mostly around docks. Some vegetation 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 exclusively for filamentous algae, as it was by far the worst in that location than anywhere else around the lake. 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 did have one gentleman come up and convey his dislike for the treatment of any vegetation, and I explained to him the majority of the treatment was near docks and much vegetation was being left for fish habitat and to maintain good water quality. He asked that I not spray in front of his dock (which we already had) and I informed him I cannot take individual orders for "spray/do not spray," but was also fishery goal oriented and was trying to maintain an aesthetically pleasing and weed free around docks use plan, while helping the fishery by leaving a lot of habitat. He seemed satisfied with my response and headed up the West fork to fish.

We will be back in May (around May 24 – 26th) to collect water chemistry and treat nuisance vegetation again. By then filamentous algae may be more prevalent as water temperatures rise.

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. If you need to contact me please call my mobile or office telephone or E-Mail me a message and I will get back with you as soon as I can.

Sincerely,

Scott Brown

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Big Lake Holly Lake Ranch Out from Dam 4/21/11

- Sample Time: 8:30 AM
- Air Temp: 64.0° F
- Cloud Cover: 100%
- Wind Speed & Dir: NE 5-8 mph
- Water Temp Surface: 72.7° F
- Water Temp Bottom (28 ft): 51.3° F
- DO Surface: 7.8 mg/l
- DO Bottom (28 ft): 0.6 mg/l
- pH: 6.7
- Conductivity: 101 uS/cm
- Salinity: 0.05 ppt
- Ammonia: 0.4 ppm
- Nitrites: 0 ppm
- Alkalinity: 24 ppm
- Carbon Dioxide: 7 ppm
- Chlorides: 24 ppm
- Hardness: 28 ppm
- Visibility: 46 in
- Thermo-cline Depth: 20 ft

Big Lake Holly Lake Ranch East Fork 4/21/11

- Sample Time: 9:15 AM
- Air Temp: 66.0° F
- Cloud Cover: 100%
- Wind Speed & Dir: NE 5-8 mph
- Water Temp Surface: 70.8° F
- Water Temp Bottom (7 ft): 70.8° F
- DO Surface: 5.6 mg/l
- DO Bottom (7 ft): 7.0 mg/l
- pH: 7.0
- Conductivity: 97 uS/cm
- Salinity: 0.04 ppt
- Ammonia: 0.8 ppm
- Nitrites: 0 ppm
- Alkalinity: 24 ppm
- Carbon Dioxide: 8 ppm
- Chlorides: 24 ppm
- Hardness: 40 ppm
- Visibility: 39 in
- Thermo-cline Depth: None

Big Lake Holly Lake Ranch West Fork 4/21/11

- Sample Time: 10:00 AM
- Air Temp: 68.0° F
- Cloud Cover: 100%
- Wind Speed & Dir: NE 5-8 mph
- Water Temp Surface: 71.2° F
- Water Temp Bottom (10 ft): 71.0° F
- DO Surface: 6.4 mg/l
- DO Bottom (10 ft): 5.6 mg/l
- pH: 7.1
- Conductivity: 98 uS/cm
- Salinity: 0.05 ppt
- Ammonia: 0.4 ppm
- Nitrites: 0 ppm
- Alkalinity: 32 ppm
- Carbon Dioxide: 9 ppm
- Chlorides: 28 ppm
- Hardness: 48 ppm
- Visibility: 42 in
- Thermo-cline Depth: None