

## **BASELINE ENVIRONMENTAL MONITORING PLAN LAKE MURRAY MARINAS**

Prior to the beginning construction of a marina, baseline water quality and aquatic biology data shall be collected in the vicinity of the proposed development. Baseline sampling of all parameters shall be collected prior to any construction on a weekly basis for the month of August. The number of sampling locations is site specific and will be determined by South Carolina Electric & Gas Company and the appropriate regulatory agencies when a site is selected.

Annual sampling shall be conducted subsequent to the baseline sampling on a weekly basis during the month of August. The annual sampling shall be conducted for a minimum of five (5) years after all construction is completed and 100% slip occupancy has occurred. The need to continue beyond this point shall be determined by SCE&G and the appropriate regulatory agencies.

The following parameters shall be sampled at all locations.

### **WATER QUALITY**

#### **WATER COLUMN**

Dissolved Oxygen  
Temperature  
Conductivity

Each shall be monitored weekly at the surface, mid-depth, and bottom of the water column three times during the day; Before 8:00 a.m., mid day, and 4:00 – 6:00 p.m.

Fecal Coliform

Each shall be monitored weekly at midday  
Within one foot of the surface

p<sup>H</sup>

### **AQUATIC BIOLOGY**

Benthic Macroinvertebrates – Ponar grab samples shall be collected at two locations - one in the area impacted by the marina and one in the vicinity with similar substrate characteristics not impacted by the marina. Benthic sampling shall coincide with a water quality sampling during August. The total number of benthic fauna shall be quantified by Taxon and diversity index values calculated. If results indicate an adverse impact on the benthic community, then sediment sampling may be required.