

Condition of all structures (i.e. spillway, boat ramps, level regulators, etc.):

Dam is showing signs of erosion and leakage. No other structures are found at Okaton Dam.

Field observations of aquatic vegetation conditions:

Submergent vegetation consists of dense mats of various pondweed species throughout most of the lake. Emergent vegetation consists of cattails and rushes and surrounds the entire shoreline.

CHEMICAL DATA

Field observations of water quality and pollution problems:

No pollution problems were evident at the time of the survey. Water clarity was excellent with a secchi disc reading of 12 feet. Other water quality characteristics were measured in the field on July 21, 2009, using a HACH water quality kit, an Oyster meter and a YSI 55 meter. Results are found in Table 1.

Presence of a thermocline and depth from surface: No
Station for water chemistry located on attached map: Yes

Table 1. Water chemistry results from Okaton Dam, Jones County, July 21, 2009.

Station	Depth (ft)	Temp (F)	DO (ppm)	CO2 (ppm)	ALK (mg/l)	Hardness (mg/l)	pH	Secchi disc (ft)
A	Surface	75.9	7.50	47.0	203	--	7.83	12
A	12	72.9	8.36	49.4	214	--	7.80	

BIOLOGICAL DATA

Methods:

Okaton Dam was sampled on July 21-22, 2009, with five overnight trap net sets. The trap nets have 3ft x 5ft frames, 60ft leads, and 3/4 inch knotted mesh. No experimental gill nets set or electrofishing done during this survey season. Fish indices and statistics were completed using Winfin.

Results and Discussion:

On July 21, five overnight trap nets were set to do an annual population survey on Okaton Dam now that the lake has filled. The nets were checked again on July 22 and no fish were found in any of the nets so the nets were pulled. Stockings will need to be made in the near future to get a fish population started again. A largemouth bass fingerling stocking of 2,520 fish was done late summer in 2009. This should be a good start in a lake void of any fish.

RECOMMENDATIONS

1. Resurvey in 2012 to monitor the fish populations.
2. Stock largemouth bass of any size to help establish a population.
3. Stock bluegill as a secondary species.