

Lower St Johns River, Duval County River Field Brief

City of Jacksonville, Environmental Quality Division
Ambient Water Quality Monitoring Team

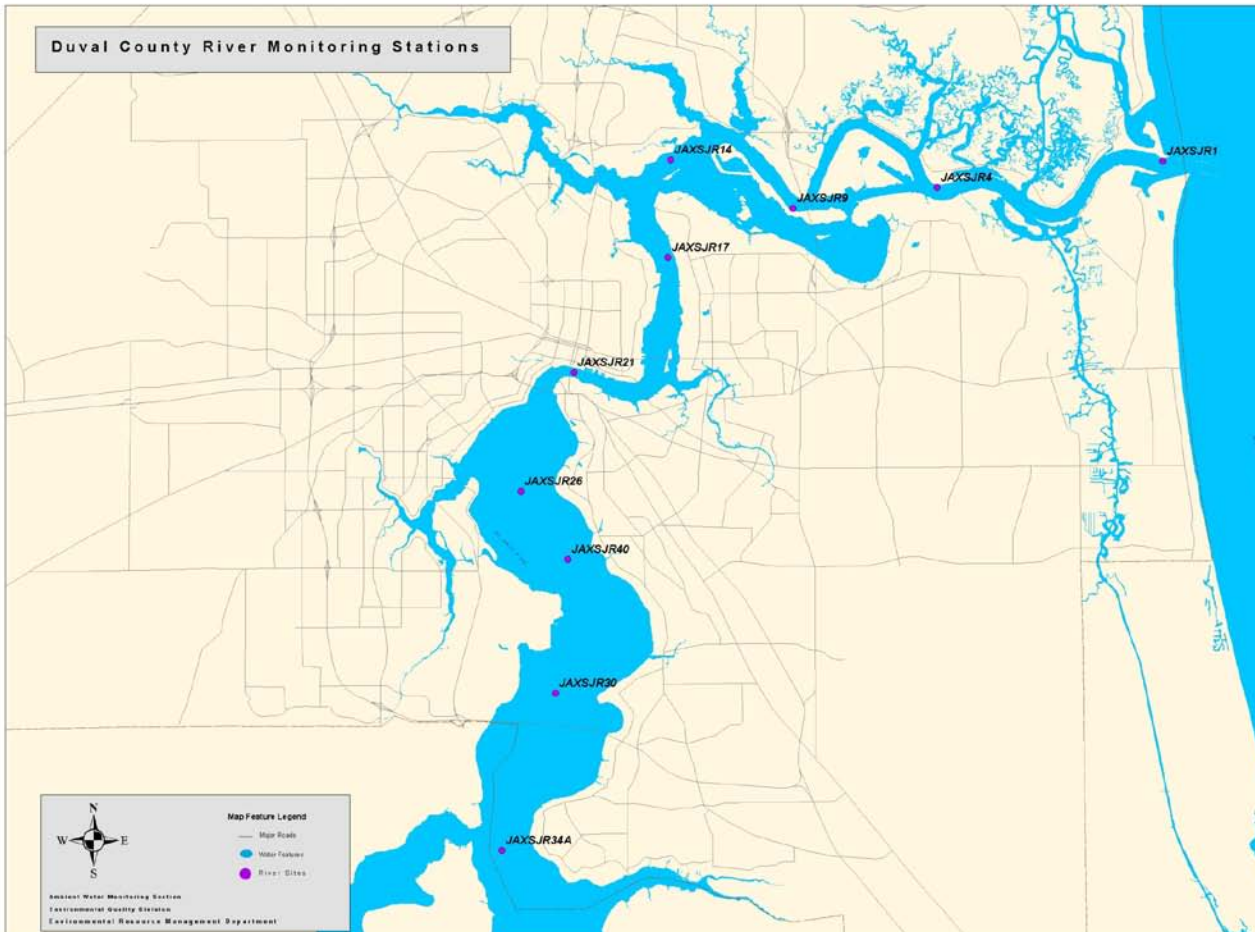
July 24, 2012



Shipping Activity at the Port of Jacksonville.

The Port of Jacksonville (JAXPORT) is an international trade seaport on the St. Johns River, carrying over 21 million tons of cargo each year. It has an annual impact of over \$19 billion, including 65,000 jobs. It is the second largest handler of vehicles in the United States with 656,805 in fiscal year 2008.

Area of Coverage: Routine “River Run” in the St. Johns River, from Mandarin Point to the mouth of the river at the jetties. Sites are collected in the channel except for JAXSJR9 and JAXSJR17.



Weather: Clear and hot, breezy in the afternoon.

Water appearance: Very little foam. Brownish tea-color overall, greenish ocean water at the mouth. At site JAXSJR1, (near the mouth) the current had just changed from ebb to flood, and the lines of separation between different volumes of water with different colors was very prominent.



Water quality:

Water temperature = 27 to 30 degrees C.

Dissolved Oxygen = 75 to 86 % saturation (5.2 to 6.4 mg/l) except for two sites. At sites JAXSJR30 and JAXSJR40 (north of Buckman Bridge and north of NAS JAX) DO was 97 to 102 % (7.2 to 7.4 mg/l).

Salinity = 34 ppt at the mouth, 10 ppt at Main Street Bridge, 2.5 ppt at NAS JAX, 1.0 ppt at Mandarin.

pH = 7.6 to 8.0.

Phytoplankton Blooms/HAB: None observed.

Fish Kills: None observed. One large dead redfish (~3 ft.) was floating near Dames Point Bridge.

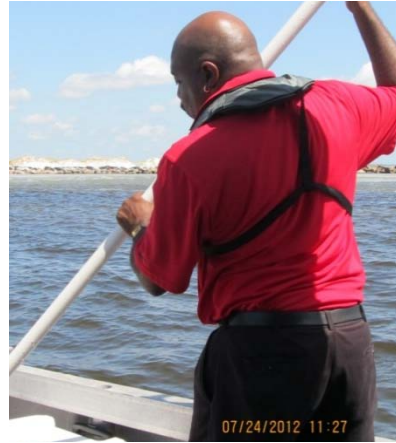


*Large red drum
floating near Dames
Point Bridge*

Wildlife: Dolphins at sites JAXSJR9 and JAXSJR14 (Trout River, Mill Cove, Blount Island areas). Numerous sea birds at site JAXSJR1 (near Mayport and Huguenot Park).



COJ Staff working on the Research Vessel Anna McLeod



COJ Staff processing samples in downtown Jacksonville

Projected areas of operation for next report: August River Run scheduled for August 7, 2012.

For questions, comments or suggestions please email betsy@coj.net. Betsy Deuerling, COJ, EQD.