

## Accepted Manuscript

Title: Low Water Conductivity Increases the Effects of Copper on the Serum Parameters in Fish (*Oreochromis niloticus*)

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PII: S1382-6689(15)00002-2  
DOI: <http://dx.doi.org/doi:10.1016/j.etap.2014.12.019>  
Reference: ENVTOX 2168

To appear in: *Environmental Toxicology and Pharmacology*

Received date: 27-11-2014  
Revised date: 29-12-2014  
Accepted date: 30-12-2014

Please cite this article as: Canli, E.G., Canli, M., Low Water Conductivity Increases the Effects of Copper on the Serum Parameters in Fish (*Oreochromis niloticus*), *Environmental Toxicology and Pharmacology* (2015), <http://dx.doi.org/10.1016/j.etap.2014.12.019>

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## Highlights

1. Water conductivity affects copper toxicity both in acute and chronic exposures.
2. There was a strong negative relationship between altered serum parameters and conductivity.
3. Chronic copper exposures decreased the liver enzymes at low conductivity.
4. Acute copper exposures increased the levels of nutrient molecules at low conductivity.
5. Water conductivity is an important ecological factor for metal toxicity in fish.

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