

# **Spatial Distribution Of Pesticides In North Carolina Rivers and Lakes. (A05-mundle124843-Poster)**

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## **Abstract:**

The rivers sampled were Haw River, Dan River in Piedmont region, whereas Neuse River samples were collected from coastal plain region. The ponds and Lakes sampled were in Piedmont and coastal plain region. Water samples were collected using standard methods and transported to the laboratory and stored at 4degrees C. Sediments were collected in zero contamination tubes and were also stored at 4degrees C. The herbicides included in the study were simazine, prometon, atrazine, cyanazine, and metolachlor. Water samples were filtered through micro glass filters and extracted using C-18 column with the solid-phase extraction (SPE) method. The herbicides in sediments were extracted ultrasonically with methanol and collected by C-18 column. All extracts were eluted from C-18 column with methylene chloride and concentrated to less than 1 mL using UHP grade nitrogen gas. The extracts were analyzed by Gas chromatography-mass spectrometry (GC-MS). The detected levels of the herbicides in water samples ranges from \_\_\_\_\_ug/L to \_\_\_\_\_ug/L and \_\_\_\_\_ug/g to \_\_\_\_\_ug/g for sediments. The study continues and further results will be discussed and reported accordingly.

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