

Central Environmental Laboratory

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Location Howell South 106
Department of Biology

Contact Dr. Rebecca Cooper
252-328-6287
cooper@ecu.edu

Dr. Lisa Clough
252-328-1834
cloughl@ecu.edu

Purpose To assist researchers with the analysis of water, (from rivers, lakes, estuaries, oceans, precipitation, porewater and groundwater), soil, sediment, and plant and animal tissues.

Capabilities Examples of analyses that are routinely performed include various forms of nitrogen, phosphorus, organic and inorganic carbon, fluoride, chloride, silica, sulfate and certain metals. Colorometric and fluorescence analyses can also be analyzed for particle size. The data generated from these analyses are used in photosynthetic rate studies, nitrogen cycling studies, productivity studies, and water quality monitoring projects.

Instrumentation Equipment in the CEL includes an auto-analyzer, a CHN elemental analyzer, wet combustion carbon analyzer, pH/ion selective meters, analytical balances, muffle furnace, drying ovens, UV/Vis spectrophotometers, turbidimeter, autoclave, Kjeldahl nitrogen digestion unit/block digester, mechanical shaking tables, incubators, freezers, vented hoods, tissue homogenizers, hot plates, water baths, centrifuges, and its own deionized water system.