

UD CITIZEN MONITORING PROGRAM



UNIVERSITY OF DELAWARE
EARTH, OCEAN &
ENVIRONMENT



DELAWARE CENTER FOR THE
INLAND BAYS
Research. Educate. Restore.



Water Quality Monitoring Sites and Results for Dissolved Oxygen

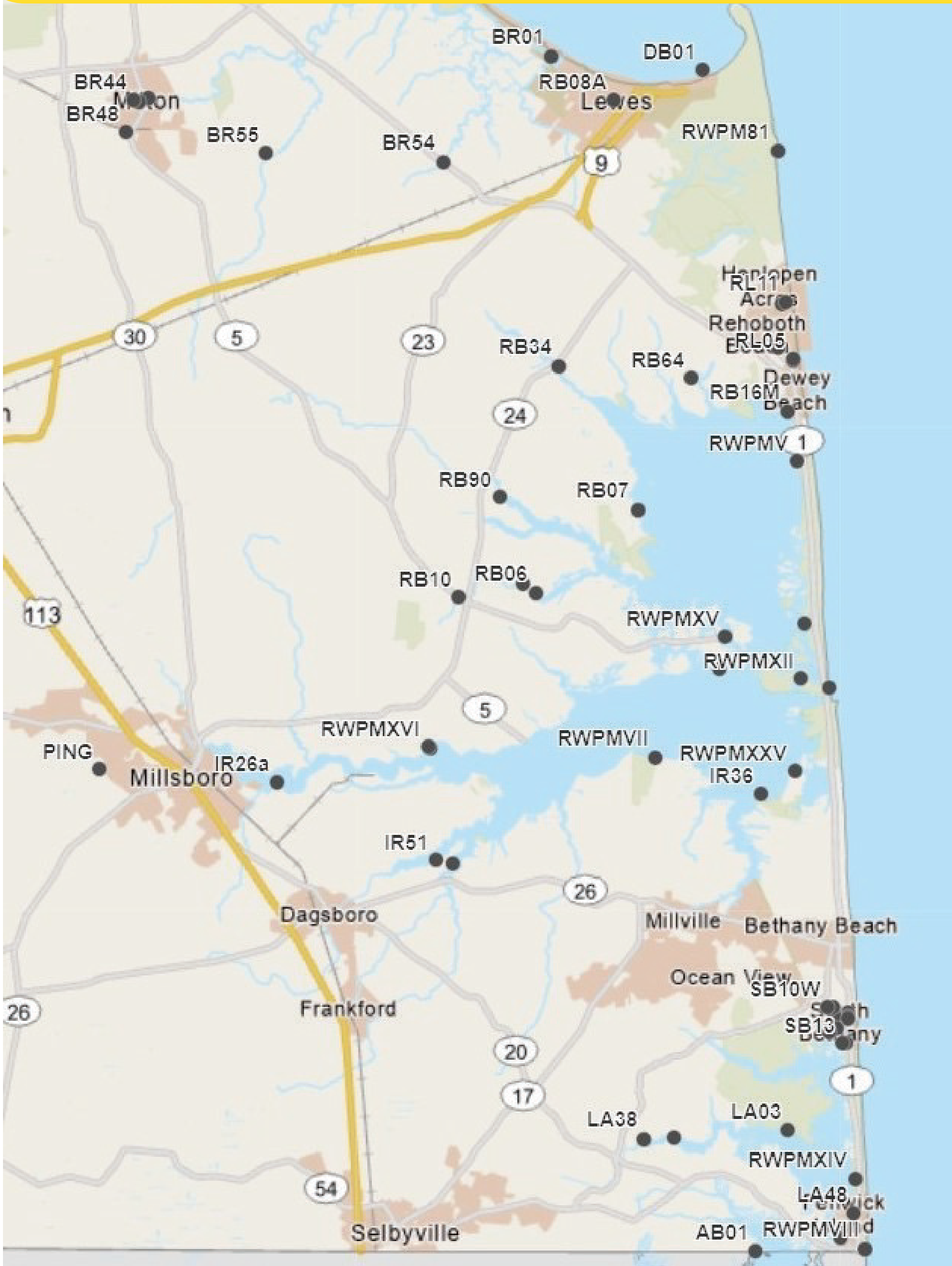
Testing Sites: Delaware Inland Bays and Broadkill River Watersheds | Period of Time: April – Sept. 2024

Dissolved oxygen (DO) is an important parameter to measure. Adequate DO levels are needed for organisms to survive. Levels <4.0 ppm can be stressful, but <2.0 ppm can be lethal. Chemical test kits or digital meters are used to measure DO. Sampling is usually done in the morning when DO is typically near the daily minimum.

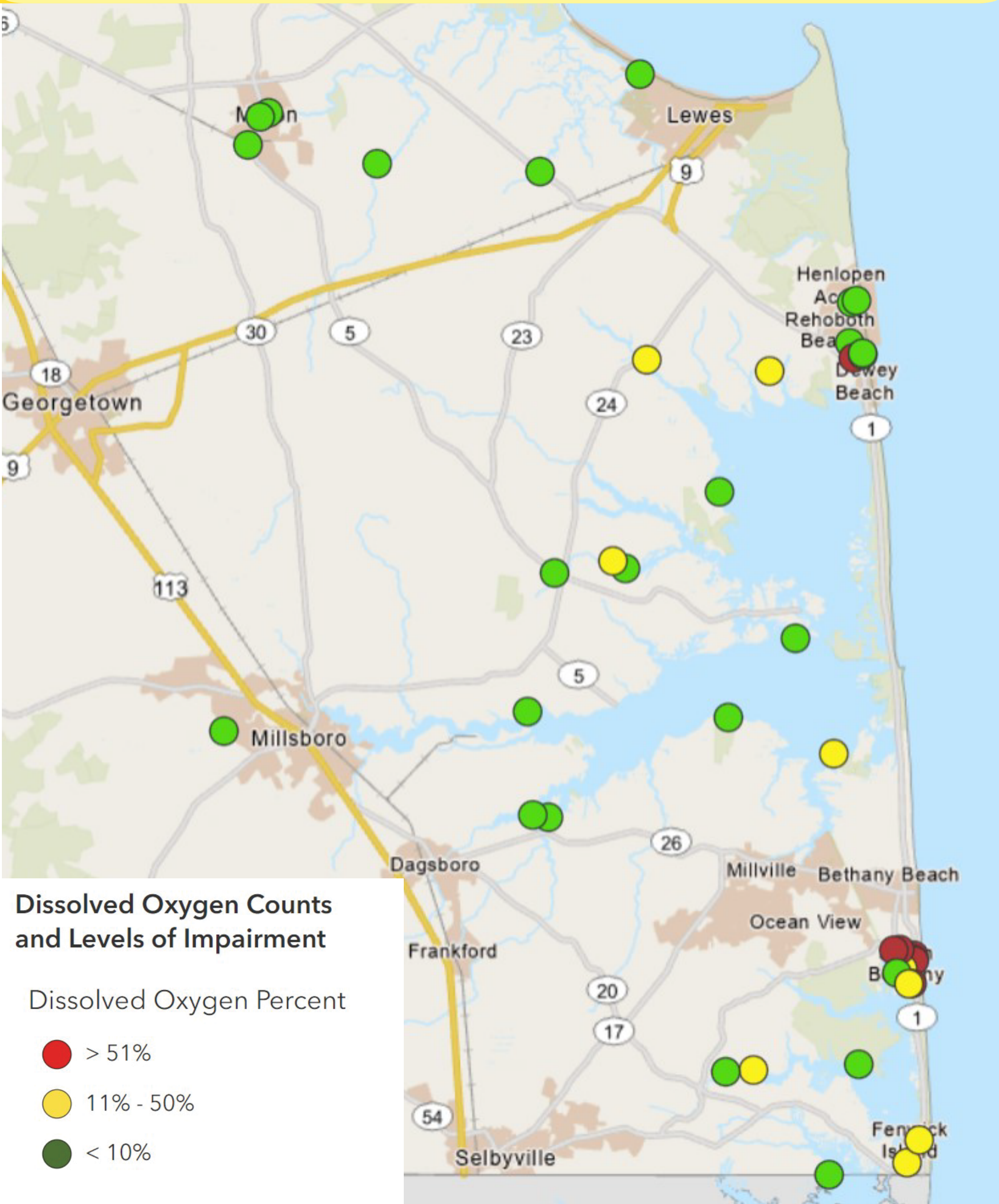


Dedicated volunteers in the field!

UD Citizen Monitoring Program (CMP) Sites



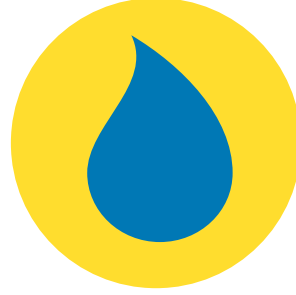
Color-Coded Results of the DO Condition in 2024



Dissolved Oxygen Counts and Levels of Impairment

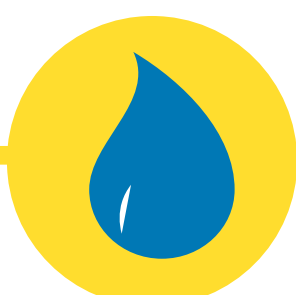
Dissolved Oxygen Percent

- > 51%
- 11% - 50%
- < 10%



State Dissolved Oxygen Standards from DNREC

- A. Average (June–Sept.): Not less than 5.0 ppm
- B. Instantaneous Value: Not less than 4.0 ppm



Values below 2.0 ppm can be stressful or lethal to aquatic organisms (see red bars below)

% samples <4ppm % samples <2ppm

