What is Dissolved Oxygen (DO)?

DO is the measure of oxygen that is dissolved in water. Aquatic organisms depend on dissolved oxygen in order to survive in their environment. Oxygen can be dissolved in water through lower temperatures, mixing of water, and other photosynthetic organisms. DO is measured by milligrams per liter (mg/L)

Why we measure dissolved oxygen...

DO levels can indicate how healthy the aquatic environment is and if it can support life. Most aquatic organisms in the Hudson River and New York Harbor need at least **5 mg/L** of dissolved oxygen to survive.

How to use a LaMotte DO testing kit:

*Created by Nadia Trochez, Michelle Arias, and Dwaine Pryce from Dr. Pat Grove's College of Mount St. Vincent Ecology class.



Add one ettowar 1102 - + Tip drop at a 0.025N Thiosulfate time. Thiosulfate Solution and swirling, insert titrator until color of plunger 3 fill mix lightens fully to zero to pale line on 0608 yellow _ 25 mL plunger, avoid air Fill titration tube to 20 ml with bubbles. the fixed sample and cap it 12 Continue to titrate the fixed sample using one 15 m drop at a , 12.9 mL Add 10 mL time of the 8 drops of starch E 0608 Thiosulfate _ 5 mL 25 mL indicator solution Blue color is from the to the fixed added with each drop to plunger. Sample. Swirl to mix. help you see the next step. 4

You will keep titrating and swirling until the blue color completely disappears Record the amount left in the titrator as ppm of dissolved oxygen – this reading would be 5 ppm.

