

CO2 Testing

June 2, 2021

Abstract:

Testing is conducted to determine if a reduction of CO2 can be achieved using a single Aeration Plate consisting of 2 - Titanium plates and 2 – Iridium coated plates. Approximately 2.5 liters of S. Pellegrino sparkling mineral water containing solid CO2 was used to determine if the AE technology could reduce CO2 in the S. Pellegrino water placed inside the tank.

Fifteen Drops of CO2 indicator fluid was placed into a CO2 Drop Bulb and was installed inside the tank, the indicator fluid starts out Blue, in the presence of light CO2 maintains Green, but if CO2 level is heavy the fluid turns Gold.

The Control Test was conducted without the Power Supply being turned on, after approximately 15 minutes the indicator fluid started out Blue but within 15 minutes it turned gold, which indicates a high concentration of CO2 was present in the S. Pellegrino Tank.

Control Test Starting Parameters:

pH 6.30

Dissolved Oxygen: 4.4 mg

CO2 Present: Heavy, (indicator fluid turned gold)

Test 1: 15 Minutes

pH: 7.35

Dissolved Oxygen: 15.5 mg

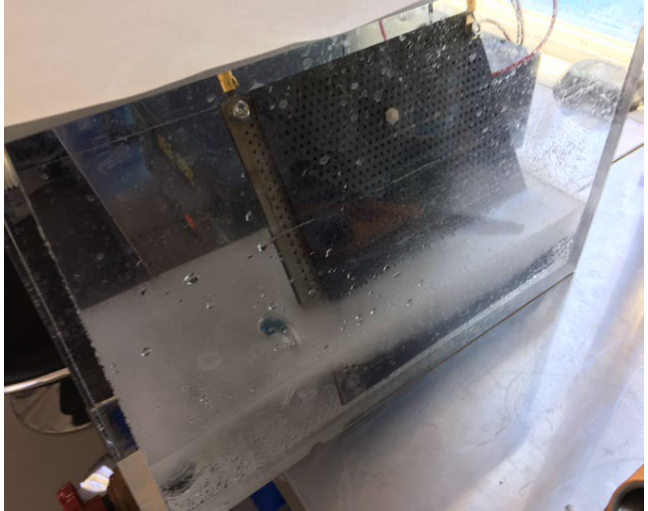
CO2 Present: 5 - Minutes – Green 10 – Minutes – Green 15 Minutes - Green

Volts: 15.2

Amps: 39.5

Conclusion:

CO2 reduction was achieved during testing however, the amount and rate of reduction is unknown.



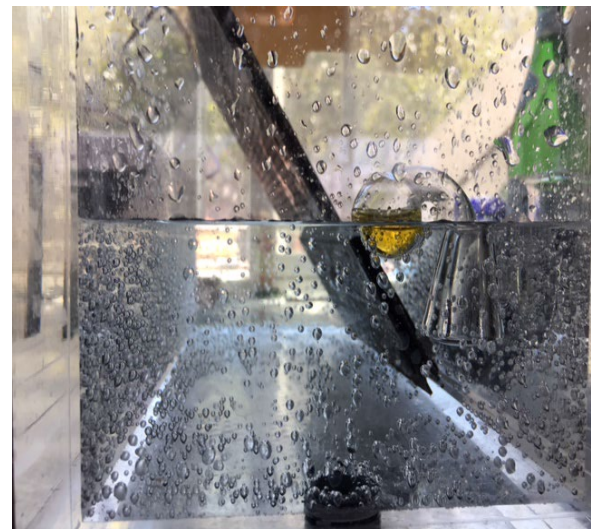
S. Pellegrino Water Test Tank



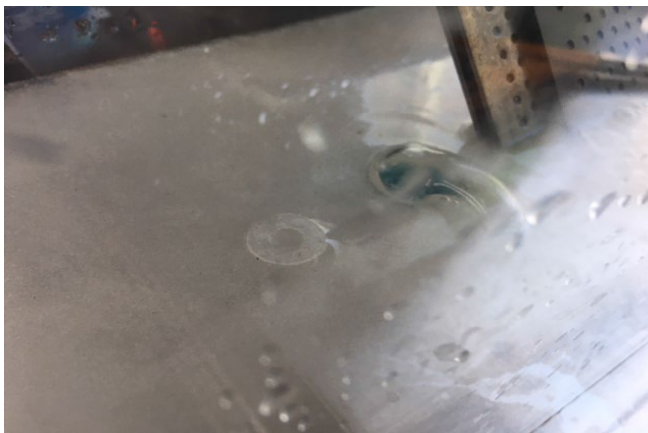
Power Supply Settings



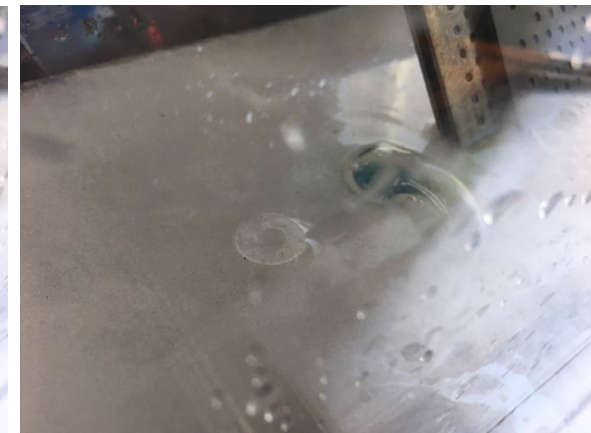
Control Test, Indicator Fluid Starts out Blue, (the Bulb)



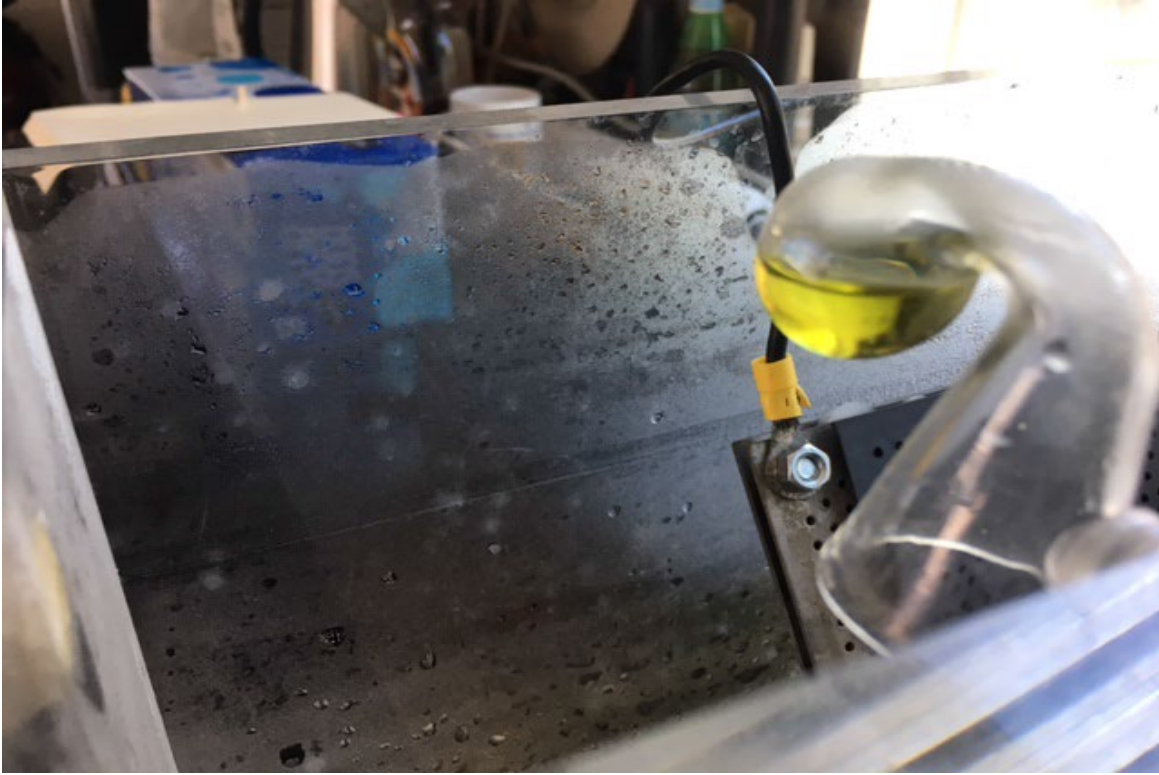
Control Test, Indicator Fluid Turned Gold



Test 1, Indicator Fluid Starting Out, (Green)



Test 1, Indicator Fluid after 10 Minutes, (Green)



Test 1, Indicator Fluid after 15 Minutes, (Green)