



## Dissolved Oxygen Test on water treated by the Vortex Water Revitalizer

### Procedure:

1. Fill water sample bottle
2. Add 8 drops of Magnamoum Sulfate Solution
3. Add 8 drops of Alkaline Potassium Iodine Azide
4. Cap and Mix
5. All precipitate to settle
6. Add 1.0 gram Sulfamic Acid
7. Cap and Mix until regent and precipitate dissolve
8. Fill titration tube (20 ml) with Sodium Thiosulfate
9. Titrate until liquid is pale yellow
10. Add 8 drops of starch indicator, refill titrator with Sodium Thiosulfate
11. Titrate until blue color fades and becomes clear, read results in p.p.m. dissolved oxygen.

### Results of find:

1. City Water w/out filtration Dissolved Oxygen: 1 p.p.m. This is fatal to most species of aquatic creatures and many die in water of this concentration of oxygen.
2. Vortex Water Revitalizer Pipe 6 p.p.m. This is the highest concentration of Dissolved Oxygen we find in nature.
3. Vortex Water Revitalizer Pipe and U.V. Light Filtration 4 p.p.m. under being preferred for most aquatic species. The conclusion that we have come to is that the UV Light must break the bonds between the water and allows some of it to dissolve out.

### Micro Organisms and Elements:

1. We found all three to be free of Micro Organisms including E-coli and micro algae.
2. We found higher levels of Chlorine in the City Water about 8 mg/". The other two forms of filtration had small amounts of chlorine in them but they were immeasurable.
3. They all three were negative for nitrogen.

Student who performed the above tests:

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