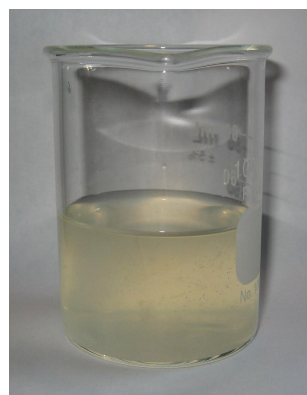
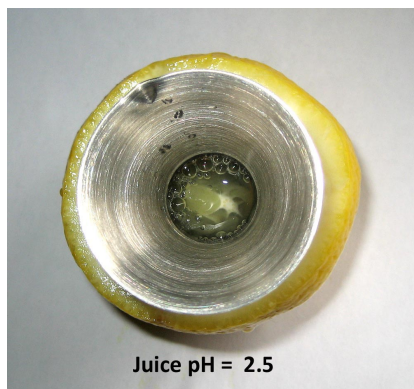


Freshly Squeezed Lemon Juice Added to CDS Reduced CLO₂ ppm 75%

This test was preformed to determine if lemon juice added to CDS would reduce chlorine dioxide (CLO₂) content. It did.

The following photos show how lemon juice was extracted from a fresh lemon. The idea was to not include any oil from the lemon rind. That was done by carefully removing a band of rind with a knife and then cutting off the exposed end of the lemon interior. The knife was washed after cutting off the rind and before cutting off the lemon end. The screw-in juice extractor was inserted and some juice was squeezed out into a glass container.



50 ml of 73 ppm CDS plus
10 ml of fresh lemon juice.

50 ml of 73 ppm CDS plus 10 ml of distilled water = **60 ppm CLO₂**

pH of test sample (1 ml of the above 60 ml solution) = 5.5

50 ml of 73 ppm CDS plus 10 ml of fresh squeezed lemon juice = **15.6 ppm CLO₂**

pH of test sample (1 ml of the above 60 ml solution) = 3.5-4.0 (two different pH range strips)

Also note there is no light yellow color in the photo because most of the CLO₂ is gone.

The CLO₂ was reduced about 75% in 3.5 minutes, the time it took to measure ppm.

24 May 2016