

## User-friendly Summary of Test Results for the H2 Series UltraWater Filter



All test results are certified and performed in NELAP accredited labs to proper EPA Standards.

**Abstract:** All tests performed were done in manner to replicate the flow rates and contact times of AlkaViva H2 Series ionizers with a flow rate of 3 liters per minute. No ionization, or form of electrolysis was used in testing to avoid the effect of ionic separation.

All control water samples, influent samples, were created using DI water then spiked with contaminant samples from ERA Labs (<http://www.eraqc.com>) and scanned separately for accurate starting values without passing through UltraWater filters. Start values were prepared to be as close as possible to EPA MCL levels where applicable. In the case of contaminants that are added during treatment such as fluoride or the chlorine based disinfectant group, start values were prepared to be at least the level that typically found in municipally treated water.

All filters were flushed prior to testing using 10 gallons of DI water, then cleared of excess water by air. Prior to collection approximately 2 liters of control water sample was passed through and the effluent samples were collected at this time.

Testing for the VOC, disinfectant and heavy metals sample groups was performed by Silver State Analytical Laboratories and completed on 12/10/12 and 2/19/16 respectively. Testing for a sample group of PPCP (pharmaceuticals / personal care products / herbicides and pesticides) was performed by MHW on 8/3/12. Glyphosate testing was performed by eurofins / Eaton Analytical on 4/14/16. Original lab reports available upon request.

### **Test Result Definitions:**

**Influent** = The levels found in the control sample prior to passing through the UltraWater Filtration System.

**Effluent** = The levels found in the collected sample after passing through the UltraWater Filtration System.

**mg/L** = Milligrams per liter, or Parts Per Million (PPM)

**ug/L** = Nanograms per Liter, or Parts Per Billion (PPB)

**ND** = Nondetectable levels were found in testing. ND is an indicator if the lowest level of accurate reporting based on the equipment's capabilities and the type of tests performed.



User Friendly Summary of UltraWater Test Results



Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Reporting Limits
<b><u>Disinfectants and TDS Sample Group</u></b>				
Total Residual Chlorine	1	mg/L	ND	0.25
Free Chlorine	0.33	mg/L	ND	0.25
TDS	105	mg/L	100	10
<b><u>Heavy Metal Sample Group</u></b>				
Aluminum	0.065	mg/L	ND	0.05
Antimony	0.038	mg/L	ND	0.001
Arsenic	0.043	mg/L	ND	0.001
Barium	1.6	mg/L	0.009	0.001
Beryllium	0.003	mg/L	ND	0.001
Boron	1.7	mg/L	ND	0.01
Cadmium	0.017	mg/L	ND	0.001
Chromium	0.059	mg/L	ND	0.001
Copper	0.22	mg/L	ND	0.001
Iron	1.2	mg/L	ND	0.01
Lead	0.061	mg/L	ND	0.001
Manganese	0.31	mg/L	0.003	0.01
Molybdenum	0.038	mg/L	ND	0.001
Mercury	0.0008	mg/L	ND	0.002
Nickle	0.054	mg/L	ND	0.001

\*ND=Non-Detectable levels were found, \*mg/L=Milligrams Per Liter, or Parts Per Million,  
\*ug/L=Nanograms Per Liter, or Parts Per Billion

















