



Club Hydrate

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## User Friendly Summary of Perfect Pitcher Test Results

*performed by:*



*Anatek Labs, Inc.*

All tests performed in a NELAP Accredited laboratory environment to the proper EPA Standards.

**Abstract:** An off-the shelf Perfect Pitcher was used for all testing. The Perfect Pitcher was flushed according to product directions. After flushing, the filter had 12 gallons of tap water passed through it under normal operating conditions. Effluent samples were drawn under normal operating conditions using the actual gravity flow rate and contact times made possible by the Perfect Pitcher filter (approx. 1 liter / 5 minutes).

All control water samples, influent samples, were created using distilled water spiked with certified contaminant samples from ERA Labs and scanned separately for accurate starting values without passing through the Perfect Pitcher filter.

Testing for a sample group of heavy metals, disinfectants, anions group were performed by Silver State Labs on December 17, 2014. VOC testing was managed by Silver State Labs and performed under contract by Anatek Labs on November 10, 2014. PPCP (Pharmaceuticals and Personal Care Products) testing was managed by Silver State Labs and performed under contract by Eurofins Labs on October 22, 2014.

Original lab reports available upon request.

**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 equipments capabilities and the type of tests performed.

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Percentage Reduction	Reporting Limits
<b><u>Disinfectants and other Anions</u></b>					
Total Residual Chlorine	0.67	mg/L	Not Detected	99.99%	0.1
Free Chlorine	0.53	mg/L	Not Detected	99.99%	0.1
Fluoride	0.79	mg/L	0.17	78.48%	0.1
Nitrate as N	0.68	mg/L	0.16	76.47%	0.2
Nitrite as N	0.54	mg/L	0.13	75.93%	0.2
<b><u>Heavy Metals</u></b>					
Aluminum	0.655	mg/L	0.1	84.73%	0.05
Antimony	0.032	mg/L	0.001	96.88%	0.001
Arsenic	0.023	mg/L	0.002	91.30%	0.001
Barium	2.84	mg/L	0.22	92.25%	0.01
Beryllium	0.009	mg/L	Not Detected	99.99%	0.001
Boron	0.8	mg/L	Not Detected	99.99%	0.05
Cadmium	0.005	mg/L	Not Detected	99.99%	0.001
Chromium	0.046	mg/L	0.005	89.13%	0.01
Chromium VI	0.06	mg/L	Not Detected	99.99%	0.01
Copper	0.18	mg/L	0.037	79.44%	0.01
Iron	0.41	mg/L	Not Detected	99.99%	0.01
Lead	0.052	mg/L	Not Detected	99.99%	0.05
Manganese	0.47	mg/L	0.061	87.02%	0.01

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Percentage Reduction	Reporting Limits
Molybdenum	0.022	mg/L	0.002	90.91%	0.001
Mercury	0.008	mg/L	Not Detected	99.99%	0.002
Nickle	0.458	mg/L	0.05	89.08%	0.01
Selenium	0.05	mg/L	0.001	98.00%	0.01
Silver	0.022	mg/L	Not Detected	99.99%	0.001
Thalium	0.024	mg/L	Not Detected	99.99%	0.05
Vanadium	0.76	mg/L	0.008	98.95%	0.01
Zinc	1.11	mg/L	0.45	59.46%	0.05
<b><u>Volitile Organics</u></b>					
1,1,1,2-Tetrachloethane	214	ug/L	36	83.18%	0.5
1,1,1-Trichlorethane	112	ug/L	27.2	75.71%	0.5
1,1,2,2-Tetrachloroethane	292	ug/L	58	80.14%	0.5
1,1,2-Trichloroethane	286	ug/L	72.7	74.58%	0.5
1,1-Dichlorethane	169	ug/L	59	65.09%	0.5
1,1-dichloropropene	114	ug/L	15.5	86.40%	0.5
1,2,3-Trichloropropane	300	ug/L	65.5	78.17%	0.5
1,2,4-Trichlorobenzene	123	ug/L	3.96	96.78%	0.5
1,2,4-Trimethylbenzene	96.2	ug/L	4.89	94.92%	0.5
1,2-Dichloroethane	273	ug/L	79.6	70.84%	0.5
1,3,5-Trimethylbenzene	98.2	ug/L	4.97	94.94%	0.5

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Percentage Reduction	Reporting Limits
1,3-Dichloropropene	278	ug/L	68.3	75.43%	0.5
2,2-Dichloropropane	85	ug/L	26.8	68.47%	0.5
Benzene	169	ug/L	34.3	79.70%	0.5
Bromobenzene	161	ug/L	8.5	94.72%	0.5
Carbon Tetrachloride	106	ug/L	20.2	80.94%	0.5
cis-1,2-dichloroethene	204	ug/L	45.9	77.50%	0.5
Dibromomethane	293	ug/L	75.6	74.20%	0.5
Dichlorodifluoromethane	125	ug/L	54.7	56.24%	0.5
Ethylbenzene	121	ug/L	8.86	92.68%	0.5
Hexachlorobutadiene	83.8	ug/L	5.54	93.39%	0.5
Isopropylbenzene	101	ug/L	6.21	93.85%	0.5
m+p-Xylene	363	ug/L	25.5	92.98%	0.5
Napthalene	181	ug/L	8.27	95.43%	0.5
n-Propylbenzene	91.8	ug/L	3.92	95.73%	0.5
p-isopropyltoluene	82.8	ug/L	3.37	95.93%	0.5
Styrene	122	ug/L	6.8	94.43%	0.5
tert-Butylbenzene	94.5	ug/L	5.4	94.29%	0.5
Vinyl Chloride	218	ug/L	70.6	67.61%	0.5

Compounds Action	Compound Name	Influent Compound Level (ng/L)	UltraWater Results	Percentage Reduction	Reporting Limit (ng/L)
<b><u>Hormones</u></b>					
Contraceptive Hormone	EE2 (17 Alpha-ethynylestradiol)	140	6.9	95.07%	5
Estrogenic Hormone	E2 (17 Beta-Estradiol)	140	8.2	94.14%	5
Estrogenic Hormone	Estrone	250	Not Detected	99.99%	5
Steroid Hormone	Androstenedione	310	22	92.90%	5
Steroid Hormone	Norethisterone	590	94	84.07%	5
Steroid Hormone	Progesterone	220	9.3	95.77%	5
Steroid Hormone	Testosterone	350	26	92.57%	10
<b><u>Over the Counter</u></b>					
Analgesic	Acetaminophen	170	49	71.18%	5
Analgesic	Phenazone	130	31	76.15%	5
Analgesic-NSAID	Ibuprofen	450	180	60.00%	10
<b><u>Prescription Drugs</u></b>					
Analgesic	Lidocaine	130	24	81.54%	5
Analgesic-NSAID	Butalbital	180	44	75.56%	5
Anti anxiety	Meprobamate	110	15	86.36%	5
Anti Asthmatic	Albuterol	110	16	85.45%	5
Anti Asthmatic	Theophylline	440	100	77.27%	10
Anti Convulsant	Primidone	5.8	Not Detected	99.99%	5
Anti Inflammatory	Diclofenac	340	83	75.59%	5
Anti Inflammatory	Ketoprofen	130	43	66.92%	5
Anti Inflammatory	Ketorolac	100	39	61.00%	5

<b>Compounds Action</b>	<b>Compound Name</b>	<b>Influent Compound Level (ng/L)</b>	<b>UltraWater Results</b>	<b>Percentage Reduction</b>	<b>Reporting Limit (ng/L)</b>
<b>Anti Inflammatory</b>	Meclofenamic Acid	430	<b>43</b>	<b>90.00%</b>	5
<b>Anti seizure</b>	Carbamazepine	210	<b>63</b>	<b>70.00%</b>	5
<b>Antibiotic</b>	Amoxicillin	4200	<b>2000</b>	<b>52.38%</b>	20
<b>Antibiotic</b>	Erythromycin	210	<b>Not Detected</b>	<b>99.99%</b>	5
<b>Antibiotic</b>	Flumequine	120	<b>32</b>	<b>73.33%</b>	10
<b>Antibiotic</b>	Lincomycin	150	<b>65</b>	<b>56.67%</b>	10
<b>Antibiotic</b>	Oxolinic acid	520	<b>160</b>	<b>69.23%</b>	10
<b>Antibiotic</b>	Trimethoprim	150	<b>5.6</b>	<b>96.27%</b>	5
<b>Anti-cholesterol</b>	Clofibric acid	170	<b>48</b>	<b>71.76%</b>	5
<b>Anticoagulant</b>	Warfarin	230	<b>99</b>	<b>56.96%</b>	5
<b>Antidepressant</b>	Fluoxetine (Prozac)	170	<b>Not Detected</b>	<b>99.99%</b>	10
<b>Anti-Seizure</b>	Dilantin	1200	<b>280</b>	<b>76.67%</b>	20
<b>Beta Blocker</b>	Atenolol	160	<b>23</b>	<b>85.63%</b>	5
<b>Beta Blocker</b>	Lopressor	1700	<b>150</b>	<b>91.18%</b>	20
<b>Blood thinner</b>	Pentoxifylline	130	<b>21</b>	<b>83.85%</b>	5
<b>Calcium Blocker</b>	Nifedipine	1600	<b>150</b>	<b>90.63%</b>	20
<b>Enzyme</b>	Chloridazon	76	<b>6.9</b>	<b>90.92%</b>	5
<b>H2 Blocker</b>	Cimetidine	280	<b>11</b>	<b>96.07%</b>	5
<b>Heart Medication</b>	Dehydronifedipine	170	<b>41</b>	<b>75.88%</b>	5
<b>Lipid Regulator</b>	Bezafibrate	280	<b>84</b>	<b>70.00%</b>	5

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<b>Lipid Regulator</b>	Gemfibrozil	210	<b>40</b>	<b>80.95%</b>	5
<b>Muscle Relaxant</b>	Carisoprodol	250	<b>87</b>	<b>65.20%</b>	5
<b>Sulfa Antibiotic</b>	Sulfadimethoxine	180	<b>Not Detected</b>	<b>99.99%</b>	5
<b>Sulfa Antibiotic</b>	Sulfamerazine	270	<b>59</b>	<b>78.15%</b>	5
<b>Sulfa Antibiotic</b>	Sulfadiazine	160	<b>73</b>	<b>54.38%</b>	5
<b>Sulfa Antibiotic</b>	Sulfamethazine	230	<b>83</b>	<b>63.91%</b>	5
<b>Sulfa Antibiotic</b>	Sulfamethizole	4400	<b>1200</b>	<b>72.73%</b>	5
<b>Sulfa Antibiotic</b>	Sulfathiazole	290	<b>43</b>	<b>85.17%</b>	5
<b>Sulfa Antibiotic</b>	Sulfamethoxazole	300	<b>73</b>	<b>75.67%</b>	5
<b>Valium- Antianxiety</b>	Diazepam	210	<b>29</b>	<b>86.19%</b>	5
<b><u>Stimulants</u></b>					
<b>Caffeine Degradate</b>	1,7-dimethylxanthine	260	<b>61</b>	<b>76.54%</b>	5
<b>Caffeine Degradate</b>	Theobromine	220	<b>97</b>	<b>55.91%</b>	5
<b>Nicotine Degradate</b>	Cotinine	440	<b>160</b>	<b>63.64%</b>	10
<b>Stimulant</b>	Caffeine	200	<b>160</b>	<b>20.00%</b>	5
<b>Analgesic-NSAID</b>	Naproxen	440	<b>110</b>	<b>75.00%</b>	10
<b><u>Personal Care Products</u></b>					
<b>Antibacterial</b>	Triclosan	320	<b>Not Detected</b>	<b>99.99%</b>	10
<b>Mosquito Repellant</b>	DEET	74	<b>33</b>	<b>55.41%</b>	2

Compounds Action	Compound Name	Influent Compound Level (ng/L)	UltraWater Results	Percentage Reduction	Reporting Limit (ng/L)
<b><u>Preservatives</u></b>					
Preservative	Butylparaben	290	11	96.21%	5
Preservative	Ethylparaben	720	30	95.83%	20
Preservative	Isobutylparaben	160	5.6	96.50%	5
Preservative	Methylparaben	1600	33	97.94%	20
Preservative	Propylparaben	220	7.5	96.59%	5
<b><u>Pesticides/Herbicides</u></b>					
Herbicide	2,4-D	220	64	70.91%	5
Herbicide	Chlorotoluron	150	29	80.67%	5
Herbicide	Diuron	220	17	92.27%	5
Herbicide	Isoproturon	280	150	46.43%	100
Herbicide	Linuron	140	7.7	94.50%	5
Herbicide	Metazachlor	51	42	17.65%	5
Pesticide	Quinoline	210	11	94.76%	5
Triazine Herbicide	Atrazine	210	54	74.29%	5
Triazine Degradate	DACT (Diaminochlorotriazine)	240	33	86.25%	5
Triazine Degradate	DEA (Deethylatrazine)	260	45	82.69%	5
Triazine Degradate	DIA (Deisopropylatrazine)	280	53	81.07%	5
Triazine Herbicide	Propazine	210	43	79.52%	5
Triazine Herbicide	Simazine	230	54	76.52%	5



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<b><u>Wastewater Indicators</u></b>					
<b>Flame Retardant</b>	TCEP	140	<b>45</b>	<b>67.86%</b>	5
<b>Flame Retardant</b>	T CPP	270	<b>120</b>	<b>55.56%</b>	5
<b>Flame Retardant</b>	TDCPP	1200	<b>110</b>	<b>90.83%</b>	5
<b>Plasticizer</b>	BPA (Bis Phenol A)	190	<b>18</b>	<b>90.53%</b>	10
<b>Sugar Substitute</b>	Acesulfame-K	930	<b>340</b>	<b>63.44%</b>	20
<b>Sugar Substitute</b>	Sucralose	4600	<b>1600</b>	<b>65.22%</b>	100
<b>Surfactant</b>	4-nonylphenol	530	<b>Not Detected</b>	<b>99.99%</b>	100
<b>Surfactant</b>	4-tert-octylphenol	250	<b>Not Detected</b>	<b>99.99%</b>	50
<b>X-ray Contrast agent</b>	Iohexol (Iohexal)	390	<b>140</b>	<b>64.10%</b>	10
<b>X-ray Contrast agent</b>	Iopromide	200	<b>66</b>	<b>67.00%</b>	5