

aquagear



## AQUAGEAR PERFORMANCE DATA - 120 Gallon Test

	INFLUENT CHALLENGE CONCENTRATION	EFFLUENT CONCENTRATION	PERCENT REDUCTION (%)
<b>NSF/ANSI 42 STANDARDS</b>			
<b>Chemical Disinfectants</b>			
Chlorine	2 mg/L ±10%	0.07	99.96%
<b>Turbidity</b>			
Particulate Class I	11,000 fibers/mL ±15%	286 fibers/mL	97.52%
<b>NSF/ANSI 53 STANDARDS</b>			
<b>Heavy Metals</b>			
Lead at pH 6.5	170 ug/L	≤1 ug/L	99.41%
Lead at pH 8.5	153 ug/L	≤1 ug/L	99.35%
Mercury at pH 6.5	6 ug/L	≤0.3 ug/L	95.00%
Mercury at pH 8.5	6 ug/L	≤0.4 ug/L	93.33%
Cadmium at pH 6.5	29 ug/L	<1 ug/L	96.55%
Cadmium at pH 8.5	30 ug/L	≤1 ug/L	96.67%
Copper at pH 6.5	3212 ug/L	≤1 ug/L	99.97%
Copper at pH 8.5	3154 ug/L	≤1 ug/L	99.97%
Zinc	9975 ug/L	≤1 ug/L	99.99%
Asbestos	13,000,00 fibers/L ±15%	22.5 fibers/L	99.97%
<b>Volatile Organic Chemicals</b>			
Atrazine	320 ug/L	≤0.1 ng/L	99.97%
Lindane	320 ug/L	≤0.1 ng/L	99.97%
Chloroform	320 ug/L	≤0.1 ng/L	99.97%
Benzene	320 ug/L	≤0.1 ng/L	99.97%
Toluene	320 ug/L	≤0.1 ng/L	99.97%
Haloacetonitriles (HAN)	320 ug/L	≤0.1 ng/L	99.97%
Bromochloroacetonitrile	320 ug/L	≤0.1 ng/L	99.97%
Dibromoacetonitrile	320 ug/L	≤0.1 ng/L	99.97%
Dichloroacetonitrile	320 ug/L	≤0.1 ng/L	99.97%
Trichloroacetonitrile	320 ug/L	≤0.1 ng/L	99.97%
Haloketones (HK)	320 ug/L	≤0.1 ng/L	99.97%
1,1-dichloro-2-propanone	320 ug/L	≤0.1 ng/L	99.97%
1,1,1-trichloro-2-propanone	320 ug/L	≤0.1 ng/L	99.97%
Heptachlor (H-34, Heptox)	320 ug/L	≤0.1 ng/L	99.97%
Heptachlor epoxide	320 ug/L	≤0.1 ng/L	99.97%
Hexachlorobutadiene	320 ug/L	≤0.1 ng/L	99.97%
Hexachlorocyclopentadiene	320 ug/L	≤0.1 ng/L	99.97%
Methoxychlor	320 ug/L	≤0.1 ng/L	99.97%

	INFLUENT CHALLENGE CONCENTRATION	EFFLUENT CONCENTRATION	PERCENT REDUCTION (%)
NSF/ANSI 53 STANDARDS			
Volatile Organic Chemicals			
Pentachlorophenol	320 ug/L	≤0.1 ng/L	99.97%
Trihalomethanes	320 ug/L	≤0.1 ng/L	99.97%
Bromodichloromethane	320 ug/L	≤0.1 ng/L	99.97%
Carbon Tetrachloride	320 ug/L	≤0.1 ng/L	99.97%
o-dichlorobenzene	320 ug/L	≤0.1 ng/L	99.97%
1,2-dichloroethane	320 ug/L	≤0.1 ng/L	99.97%
1,1-dichloroethylene	320 ug/L	≤0.1 ng/L	99.97%
cis-1,2-dichloroethylene	320 ug/L	≤0.1 ng/L	99.97%
trans-1,2-dichloroethylene	320 ug/L	≤0.1 ng/L	99.97%
Alachlor	320 ug/L	≤0.1 ng/L	99.97%
Carbofuran	320 ug/L	≤0.1 ng/L	99.97%
Chlorobenzene	320 ug/L	≤0.1 ng/L	99.97%
Chloropicrin	320 ug/L	≤0.1 ng/L	99.97%
2,4-D	320 ug/L	≤0.1 ng/L	99.97%
Dibromochloropropane (DBCP)	320 ug/L	≤0.1 ng/L	99.97%
p-dichlorobenzene	320 ug/L	≤0.1 ng/L	99.97%
1,2-dichloropropane	320 ug/L	≤0.1 ng/L	99.97%
cis-1,3-dichloropropylene	320 ug/L	≤0.1 ng/L	99.97%
Dinoseb	320 ug/L	≤0.1 ng/L	99.97%
Endrin	320 ug/L	≤0.1 ng/L	99.97%
Simazine	320 ug/L	≤0.1 ng/L	99.97%
2,4,5-TP (silvex)	320 ug/L	≤0.1 ng/L	99.97%
Tribromoacetic acid	320 ug/L	≤0.1 ng/L	99.97%
1,2,4-trichlorobenzene	320 ug/L	≤0.1 ng/L	99.97%
Chlorodibromomethane	320 ug/L	≤0.1 ng/L	99.97%
Ethylbenzene	320 ug/L	≤0.1 ng/L	99.97%
Ethylene dibromide (EDB)	320 ug/L	≤0.1 ng/L	99.97%
Styrene	320 ug/L	≤0.1 ng/L	99.97%
1,1,2,2-tetrachloroethane	320 ug/L	≤0.1 ng/L	99.97%
Tetrachloroethylene	320 ug/L	≤0.1 ng/L	99.97%
Toluene	320 ug/L	≤0.1 ng/L	99.97%
1,1,1-trichloroethane	320 ug/L	≤0.1 ng/L	99.97%
1,1,2,2-tetrachloroethane	320 ug/L	≤0.1 ng/L	99.97%
Trichloroethane	320 ug/L	≤0.1 ng/L	99.97%
Bromoform	320 ug/L	≤0.1 ng/L	99.97%
Xylenes (total)	320 ug/L	≤0.1 ng/L	99.97%

	INFLUENT CHALLENGE CONCENTRATION	EFFLUENT CONCENTRATION	PERCENT REDUCTION (%)
<b>NSF/ANSI P473 STANDARDS</b>			
<b>Perfluorinated Chemicals</b>			
PFOA	0.5 ug/L ±10%	0.023 ug/L	99.95%
PFOS	1.15 ug/L ±10%	0.023 ug/L	99.98%
<b>NSF/ANSI 401 STANDARDS</b>			
<b>Pesticides &amp; Herbicides</b>			
DEET	1400 ng/L ±20%	<12.4 ng/L	99.99%
Linuron	140 ng/L ±20%	<1 ng/L	99.99%
Metolachlor	1400 ng/L ±20%	<195 ng/L	99.86%
<b>Pharmaceuticals</b>			
Atenolol	200 ng/L ±20%	<2.33 ng/L	99.98%
Carbamazepine	1500 ng/L ±20%	<15.66 ng/L	99.99%
Meprobamate	420 ng/L ±20%	<1.55 ng/L	99.99%
Trimethoprim	150 ng/L ±20%	<1 ng/L	99.99%
Phenytoin	200 ng/L ±20%	<12 ng/L	99.94%
Ibuprofen	350 ng/L ±20%	<10 ng/L	99.97%
Estrone	125 ng/L ±20%	<16 ng/L	99.87%
Naproxen	125 ng/L ±20%	<1 ng/L	99.99%
<b>Industrial Pollutants</b>			
Bisphenol A	2000 ng/L ±20%	<18.2 ng/L	99.99%
Nonyphenol	1500 ng/L ±20%	<24 ng/L	99.98%
TCEP	5000 ng/L ±20%	<42.88 ng/L	99.99%
TCPP	5000 ng/L ±20%	<93.11 ng/L	99.98%
<b>MODIFIED NSF/ANSI STANDARDS</b>			
Microplastics	130,000 micrplastics/L ±10%	50 microplastics/L	99.99%