QFT LABORATORY, LLC.
Wilmington, Delaware 19804

TEST RESULTS

NSF Standard 53, NSF Standard 42, NSF Standard 401, and NSF Standard P 473

Chemical Reduction Tests Results

REAGENTS, MATERIALS, AND LAB EQUIPMENT
Agilent GC/MS 6890 plus/5973 mass spectrometer.
Perkin Elmer ICP/MS Elan DRC-e 6000
Perkin Elmer Analyst 300 Flame Atomic Absorption Spectrophotometer.
ABI/Sciex API 3000 with Shimadzu/Waters 2777 LC/MS/MS System
Amscope EPI Fluorescence Microscope FM-320TA-3M. Barnstead Lab-Line Incubator.
Unico Spectrophotometer.
Sigma Aldrich Sodium Hypochlorite Reagent, Sodium Fluoride, Sodium Hexaflurosilicate, Fluorosilicic Acid
PFOA, PFOS, Restek Herbicides, VOC, Pesticides, Semivolatiles, Pharmaceutical drugs, Haloacetic Acids
Standard Solutions. Polystyrene Microsphere 2 µm, Polysciences, Inc. E. Coli, Klebsiella, ATCC.
Inorganic Ventures Metals standard mix.
ProOne Promax Home Filter System.

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	ProHome System Concentration in µg/L	% Reduction @ 500 gallons
Volatile Organic Contaminants in µg/L			
Dichlorodifluoromethane	80.2	<0.1	99.9+
Chloromethane	80.1	<0.1	99.9+
Vinylchloride	80.5	<0.1	99.9+
Bromomethane	80.4	<0.1	99.9+
Chloroethane	80.8	<0.1	99.9+
Trichlorofluoromethane	81.0	<0.1	99.9+
1,1-Dichloroethene	81.0	<0.1	99.9+
Methylene Chloride	80.2	<0.1	99.9+
trans-1,2-Dichloroehene	80.5	<0.1	99.9+
MTBE	80.5	<0.1	99.9+
1,1-Dichlorethane	81.2	<0.1	99.9+
cis-1,2-Dichloroethene	171.1	<0.1	99.9+
2,2-Dichloropropane	80.1	<0.1	99.9+
Bromochloromethane	81.0	<0.1	99.9+
Chloroform	79.1	<0.1	99.9+
Carbon Tetrachloride	80.0	<0.1	99.9+
1,1,1-Trichloroethane	81.1	<0.1	99.9+
1,1-Dichloropropene	81.0	<0.1	99.9+
Benzene	80.4	<0.1	99.9+
1,2-Dichloroethane	79.4	<0.1	99.9+
Trichloroethene	180.1	<0.1	99.9+
Dibromomethane	80.0	<0.1	99.9+
1,2-Dichloropropane	80.4	<0.1	99.9+
Bromodichloromethane	80.1	<0.1	99.9+
cis-1,3-Dichloropropene	50.1	<0.1	99.9+
Toluene	79.2	<0.1	99.9+
trans-1,3-Dichloropropene	81.0	<0.1	99.9+
Tetrachloroethene	80.2	<0.1	99.9+
1,1,2-Trichloroethane	150.2	<0.1	99.9+
Chlorodibromomethane	80.2	<0.1	99.9+
1,3-Dichloropropane	80.1	<0.1	99.9+
Ethylbenzene	81.0	<0.1	99.9+
Chlorobenzene	79.5	<0.1	99.9+
1,1,1,2-Tetrachloroethane	79.9	<0.1	99.9+
m-Xylene	70.2	<0.1	99.9+
o-Xylene	70.2	<0.1	99.9+

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	ProHome System Effluent Concentration in µg/L	% Reduction @ 500 gallons
Volatile Organic Contaminants in µg/L			
1,4-Dichlorobenzene	40.2	<0.1	99.9+
n-Butylbenzene	80.1	<0.1	99.9+
1,2-Dichlorobenzene	80.2	<0.1	99.9+
Hexachlorobutadiene	44.1	<0.1	99.9+
1,2,4-Trichlorobenzene	160.4	<0.1	99.9+
Naphthalene	80.1	<0.1	99.9+
1,2,3-Trichlorobenzene	80.2	<0.1	99.9+
Styrene	80.1	<0.1	99.9+
Bromoform	80.1	<0.1	99.9+
Isopropylbenzene	80.5	<0.1	99.9+
n-Propylbenzene	80.0	<0.1	99.9+
Bromobenzene	80.1	<0.1	99.9+
1,1,2,2-Tetrachloroethane	81.2	<0.1	99.9+
1,3,5-Trimethylbenzene	80.2	<0.1	99.9+
2-Chlorotoluene	80.1	<0.1	99.9+
1,2,3-Trichloropropane	80.3	<0.1	99.9+
4-Chlorotoluene	80.5	<0.1	99.9+
tert-Butylbenzene	81.2	<0.1	99.9+
1,2,4-Trimethylbenzene	80.4	<0.1	99.9+
sec-Butylbenzene	80.1	<0.1	99.9+
4-Isopropyltoluene	80.2	<0.1	99.9+
1,3-Dichlorobenzene	80.4	<0.1	99.9+
Total Trihalomethanes in µg/L			
Chloroform	79.1	<0.1	99.9+
Bromodichloromethane	80.1	<0.1	99.9+
Chlorodibromomethane	80.2	<0.1	99.9+
Bromoform	80.1	<0.1	99.9+
Total Trihalomethanes	319.5	<0.1	99.9+
Heavy Metal Contaminants in µg/L			
Aluminum	144	15.2	89.0
Antimony	6.1	<1	99.9+
Arsenic (+3 and +5)	50.1	<1	99.9+
Barium	10,203	28.3	99.7
Beryllium	50.2	<1	99.9+
Bismuth	50.1	<1	99.9+
Cadmium	30.5	<1	99.9+
Chromium (+3)	328	<1	99.9+
Chromium (+6)	10	<0.02	99.9+
Copper	3033	<1	99.9+
Iron	3009	98.5	96.7
Lead	152	<1	99.9+
Manganese	1055	<1	99.9+
Mercury	6.1	<0.5	99.9+
Nickel	118	<1	99.9+
Selenium	117	<1	99.9+
Zinc	10,411	6.6	99.9
Pesticide Contaminants in µg/L			
4,4'-DDD	50.1	<0.1	99.9+
4,4'-DDE	50.5	<0.1	99.9+
4,4'-DDT	49.5	<0.1	99.9+
Alachlor	40.4	<0.1	99.9+
Aldrin	50.1	<0.1	99.9+
Alpha-BHC	48.8	<0.1	99.9+
Ametryn	51.0	<0.1	99.9+
Atraton	50.2	<0.1	99.9+
Atrazine	9.9	<0.1	99.9+
Beta-BHC	49.1	<0.1	99.9+
Bromacil	51.0	<0.1	99.9+

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	ProHome System Effluent Concentration in µg/L	% Reduction @ 500 gallons
Pesticide Contaminants in µg/L			
Carbofuran	80.1	<0.1	99.9+
Chlordane	40.1	<0.1	99.9+
Chlorneb	50.0	<0.1	99.9+
Chlorobenzilate	49.7	<0.1	99.9+
Chlorothalonil	50.1	<0.1	99.9+
Chlorprophane	50.2	<0.1	99.9+
Chlorpyrifos	50.3	<0.1	99.9+
Cyanizene	50.1	<0.1	99.9+
Delta-BHC	50.4	<0.1	99.9+
Dichlorvos	50.1	<0.1	99.9+
Dieldrin	50.3	<0.1	99.9+
Diphenamid	50.2	<0.1	99.9+
Disulfoton	50.1	<0.1	99.9+
Endosulfan Sulfate	50.0	<0.1	99.9+
Endrin	6.1	<0.1	99.9+
Endrin Aldehide	51.5	<0.1	99.9+
Endrin Ketone	51.0	<0.1	99.9+
Endusulfan I	50.8	<0.1	99.9+
Endusulfan II	50.1	<0.1	99.9+
Ethoprop	50.4	<0.1	99.9+
Fenamiphos	50.2	<0.1	99.9+
Fenarimol	50.4	<0.1	99.9+
Fluoridone	50.4	<0.1	99.9+
Gamma-BHC (Lindane)	2.0	<0.1	99.9+
Glyphosate	802	<0.1	99.9+
Heptachlor	80.0	<0.1	99.9+
Heptachlor Epoxide	4.0	<0.1	99.9+
Methoxychlor	120	<0.1	99.9+
Molinate	50.2	<0.1	99.9+
PCB's	10.1	<0.1	99.9+
Prometron	50.2	<0.1	99.9+
Simazine	12.2	<0.1	99.9+
Toxaphene	15.1	<0.1	99.9+
Semivolatile Contaminants in µg/L			
Acenaphthylene	50.1	<0.1	99.9+
Anthracene	50.5	<0.1	99.9+
Benz[a]anthracene	51.2	<0.1	99.9+
Benzo[b]fluoranthene	50.1	<0.1	99.9+
Benzo[k]fluoranthene	50.3	<0.1	99.9+
Benzo[a]pyrene	50.9	<0.1	99.9+
Benzo[g,h,i]perylene	50.1	<0.1	99.9+
Butylbenzylphthalate	50.3	<0.1	99.9+
Carboxin	50.4	<0.1	99.9+
2-Chlorobiphenyl	50.1	<0.1	99.9+
Chrysene	50.2	<0.1	99.9+
Cycloate	50.8	<0.1	99.9+
Dacthal (DCPA)	49.1	<0.1	99.9+
Diazinon	50.5	<0.1	99.9+
Dibenz[a,h]anthracene	50.1	<0.1	99.9+
Di-n-Butylphthalate	50.4	<0.1	99.9+
2,3-Dichlorobiphenyl	51.3	<0.1	99.9+
Diethylphthalate	51.2	<0.1	99.9+
Di(2-ethylhexyl)adipate	50.2	<0.1	99.9+
Di(2-ethylhexyl)phthalate	50.3	<0.1	99.9+
Dimethylphthalate	51.8	<0.1	99.9+
EPTC	52.3	<0.1	99.9+
Fluorene	51.2	<0.1	99.9+
2,2', 3,3', 4,4', 6-Heptachlorobiphenyl	1	<0.1	99.9+
Hexachlorobenzene	50.9	<0.1	99.9+

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	ProHome System Effluent Concentration in µg/L	% Reduction @ 500 gallons
Semivolatile Contaminants in µg/L			
2,2', 4,4', 5,6'-Hexachlorobiphenyl	51.2	<0.1	99.9+
Hexachlorocyclohexane, alpha	51.0	<0.1	99.9+
Hexachlorocyclohexane, beta	50.2	<0.1	99.9+
Hexachlorocyclohexane, delta	50.4	<0.1	99.9+
Hexachlorocyclopentadiene	51.1	<0.1	99.9+
Hexazinone	51.2	<0.1	99.9+
Indeno[1,2,3,c,d]pyrene	50.1	<0.1	99.9+
Isophorone	50.0	<0.1	99.9+
Merphos	50.5	<0.1	99.9+
Methyl Paraoxon	50.8	<0.1	99.9+
Norflurazon	50.4	<0.1	99.9+
2,2', 3,3', 4,5', 6,6'-Octachlorobiphenyl	51.2	<0.1	99.9+
Pebulate	50.8	<0.1	99.9+
2,2', 3', 4,6'-Pentachlorobiphenyl	49.2	<0.1	99.9+
Pentachlorophenol	51.2	<0.1	99.9+
Propachlor	50.1	<0.1	99.9+
Propazine	50.2	<0.1	99.9+
Triademefon	50.1	<0.1	99.9+
2,4,5-Trichlorobiphenyl	49.0	<0.1	99.9+
Tricyclazole	49.8	<0.1	99.9+
Trifluralin	50.1	<0.1	99.9+
Vernolate	50.4	<0.1	99.9+
Phenanthrene	50.1	<0.1	99.9+
cis-Permethrin	50.4	<0.1	99.9+
trans-Permethrin	49.0	<0.1	99.9+
Prometon	50.0	<0.1	99.9+
Prometryn	49.8	<0.1	99.9+
Pronamide	49.5	<0.1	99.9+
Disinfectant and Inorganic Non-Metallic Contaminants in mg/L			
Chloramines	3.1	<0.1	99.9+
Free Chlorine	2.1	<0.1	99.9+
Chloride	802	22.1	97.2
Perchlorate	0.105	<0.004	99.9+
Cyanide	50.1	<0.1	99.9+
Sodium Fluoride	8.05	0.05	99.4
Hexafluorosilicate	8.11	0.04	99.5
Fluorosilic Acid	8.15	0.07	99.1
Nitrates	27.5	0.1	99.6
Nitrites	2.9	<0.1	99.9+
Turbidity	11.2	<0.1	99.9+
Herbicide Contaminants in µg/L			
Dalapon	151	<0.1	99.9+
Dicamba	152	<0.1	99.9+
Dinosep	20.1	<0.1	99.9+
Dichlorporp	149	<0.1	99.9+
2,4-D	211	<0.1	99.9+
Pentachlorophenol	10.1	<0.1	99.9+
Picoram	151	<0.1	99.9+
2,4,5-T	150	<0.1	99.9+
2,4,5-TP (Silvex)	151	<0.1	99.9+
2,4-DB	151	<0.1	99.9+
Bentazom	149	<0.1	99.9+
DCPA	150	<0.1	99.9+
Quinclorac	149	<0.1	99.9+
Aciflurfen	150	<0.1	99.9+
Pharmaceutical Drugs Contaminants in µg/L			
Acetaminofen	20.1	<0.02	99.9+

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	ProHome System Effluent Concentration in µg/L	% Reduction @ 500 gallons
Pharmaceutical Drugs Contaminants in µg/L			
Caffeine	20.8	<0.02	99.9+
Carbamazepine	20.3	<0.02	99.9+
Ciprofloxacin HCl	20.1	<0.02	99.9+
Erythromycin USP	20.5	<0.02	99.9+
Sulfamethoxazole	20.1	<0.02	99.9+
Trimethoprim	21.0	<0.02	99.9+
Bisphenol A	20.4	<0.02	99.9+
Diclofenac Sodium	19.9	<0.02	99.9+
4-para-Nonylphenol	20.5	<0.02	99.9+
4-tert-Octylphenol	20.2	<0.02	99.9+
Primidone	20.2	<0.02	99.9+
Progestrone	20.1	<0.02	99.9+
Gemfibrozil	20.4	<0.02	99.9+
Ibuprofen	20.5	<0.02	99.9+
Naproxen Sodium	20.2	<0.02	99.9+
Triclosan	20.4	<0.02	99.9+
Fluorinated Organic Acids in µg/L			
Perfluorobutane Sulfonate (PFBS)	1.1	<0.002	99.9+
Perfluorodecanoic acid (PFDA)	1.1	<0.002	99.9+
Perfluorohexanoic acid (PFHxA)	1.1	<0.002	99.9+
Perfluorononanoic acid (PFNA)	1.1	<0.002	99.9+
Perfluorooctanoic Acid (PFOA) Surrogate (C8)	1.1	<0.002	99.9+
Perfluorooctane Sulfonate (PFOS)	1.1	<0.002	99.9+
Perfluorohexane Sulfonate (PFSxS)	1.1	<0.002	99.9+
Polytetrafluoroethylene (PTFE)	1.1	<0.002	99.9+
Fluorotelomer alcohol 8:2 (PTOH)	1.1	<0.002	99.9+
Haloacetic Acids in µg/L			
Bromochloroacetic acid	40.2	<0.1	99.9+
Bromodichloroacetic acid	40.3	<0.1	99.9+
Chlorodibromoacetic acid	40.1	<0.1	99.9+
Dibromoacetic acid	39.8	<0.1	99.9+
Dichloroacetic acid	40.8	<0.1	99.9+
Monobromoacetic acid	40.1	<0.1	99.9+
Monochloroacetic acid	40.5	<0.1	99.9+
Tribromoacetic acid	40.9	<0.1	99.9+
Trichloroacetic acid	41.0	<0.1	99.9+
Individual Parameters			
Microcystin	1.5 µg/L	<0.01 µg/L	99.999+

Drinking Water Contaminant Tested	Influent Water	ProHome System Effluent	% Reduction @ 500 gallons
pH balance @ 6.5	6.55	6.86	N/A
pH balance @ 8.5	8.45	7.86	N/A
Micro-plastic (>2 microns in length)	10^6 micro-plastic/L	<10 microplastic/L	>99.9 %
Tannin	10 mg/L	<0.01 mg/L	>99.9
1,4-Dioxane	590 ug/L	<0.1 ug/L	>99.9%

CERTIFICATION OF RESULTS:
I certify in writing that all analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18; the NYCRR Subpart 55-2 and the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards.

Disclaimer: The test results are only related to the filter sample tested.

Jaime Young
Lab Director

UV Light Purification System

In addition to the 6 stage comtaminant system described above, our UV system eliminates 99.9% of microbacterial contaminants including:

E. coli is associated with fecal contamination from agricultural runoff and sewage. Most strains of E. coli are harmless, but a particular strain, 1057:H7, produces a potent toxin that **can cause severe illness, according to the Centers for Disease Control and Prevention (CDC).**

Cryptosporidium are microscopic parasites that can cause diarrheal disease. According to the CDC, the parasite has an outer shell that makes it resistant to standard chlorine treatments. The CDC classifies Cryptosporidium as one of the leading causes of waterborne illness.

Giardia, a microscopic parasite similar to Cryptosporidium, is also linked to severe diarrhea. It can survive in the environment and your body for substantial periods of time because of its outer shell which, like Cryptosporidium, makes Giardia more resistant to chlorine treatments. Giardia infection is a common cause of waterborne disease in the United States, according to the CDC.

Hepatitis A is a viral liver disease. According to the CDC, the disease ranges in severity and can last from several weeks to a few months. One way Hepatitis A can enter a water system is in the fecal matter of an infected person.