



ENVIROTEK LABORATORIES, INC.

33 Third Street, Bordentown, NJ 08505

PHONE 856-583-0445 www.enviroteklab.com

EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

PROONE PROMAX FULL SPECTRUM FILTER HERBICIDES CONTAMINANTS TEST REPORT

Report # 17-03-Herbicides Contaminants (ProOneProMax Full Spectrum Filter)

Report Date: 03/21/2017

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Herbicide Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOneProMax Full Spectrum Filter meets the NSF Herbicides Contaminants reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Herbicide Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOneProMax Full Spectrum Filter meets the NSF Herbicides Contaminants reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek Herbicides Standard Solution Catalog 32444

ProOneProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Herbicide Contaminants Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProOneProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 515 for Herbicides Contaminants in drinking water. The results are summarized in Table 2 below.

RESULTS

**Table 1
Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.65	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5°C
TDS	385 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

**Table 2
Filtered Water Herbicides Contaminants Test Results**

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Dalapon	270.4	70	99.9+ %
3,5-Dichlorobenzoic	28.9	1	99.9+ %
Dicamba	150.7	50	99.9+ %
Diclorprop	150.2	50	99.9+ %
2,4-D	21.1	1	99.9+ %
Pentachlorophenol	22.9	7	99.9+ %
2,4,5-T	150.9	50	99.9+ %
Chloramben	28.1	1	99.9+ %
2,4,5-TP	17.6	1	99.9+ %
2,4-DB	32.7	1	99.9+ %
Dinosep	52.9	1	99.9+ %
Bentazon	38.5	1	99.9+ %
Picloram	39.0	1	99.9+ %
DCPA	43.5	1	99.9+ %
Quinclorac	43.5	1	99.9+ %
Acifluoren	42.7	1	99.9+ %



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CONCLUSION:

The ProOneProMax Full Spectrum Filter meets the NSF Herbicide Compounds reduction test for up to 100 gallons, tested following the NSF Std. 53.

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 A. Young

Jaime A. Young
Lab Director

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PROONE PROMAX FULL SPECTRUM FILTER METAL CONTAMINANTS TEST REPORT

Report # 17-03-Metal Contaminants (ProOne ProMax Full Spectrum Filter)

Report Date: 05/14/2017

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Metal Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Metal reduction test, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Metal Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Metal reduction test, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Perkin Elmer ICP/MS DRC-e 6100 mass spectrometer.

Inorganic Ventures Metals Standard Solution Catalog # Envirotek-2 (custom made solution)

Perkin Elmer Arsenic Solution 1000 mg/L, Perkin Elmer Cadmium Solution 1000 mg/L, Perkin Elmer Chromium +3 Solution 1000 mg/L. Perkin Elmer Chromium +6 Solution 1000 mg/L.

ProOne ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Metal Contaminants Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 200.8 for Metal Contaminants in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	6.55	6.25 to 6.75
Temperature	20.5 °C	20 ± 2.5°C
TDS	75 mg/L	Less than 100 mg/L
Turbidity	0.60 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Metal Contaminants Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Aluminum	206	200	92.2 %
Arsenic	49.6	10	92.8 %
Cadmium	29.6	5	99.9+ %
Chromium +3	299	100	99.6 %
Chromium +6	290	100	99.5 %
Copper	3143	1300	99.5 %
Mercury	5.9	2	99.9+ %
Nickel	263	50	98.6 %
Lead	149	10	99.3 %
Antimony	6.1	6	99.9+ %
Iron	3199	300	97.9 %
Manganese	1060	50	99.9+ %

CONCLUSION:

The ProOne ProMax Full Spectrum Filter meets the NSF Metal reduction test, tested following the NSF Std. 53.



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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.

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PROONE PROMAX FULL SPECTRUM FILTER MICRO-ORGANISMS TEST REPORT

Report # 17-3-Micro-Organisms ((ProOne ProMax Full Spectrum Filter)

Report Date: 03/15/2017

Customer Name: ProOne

EXECUTIVE SUMMARY

One hundred gallons of tap water was spiked with micro-organisms to have a final concentration of 10^7 Colony Forming Units/L; the spiked tap water was filtered through the filter element and tested; the Micro-Organisms in the tap water were reduced by 99.9999 % after 100 gallons.

INTRODUCTION

One hundred gallons of tap water was spiked with micro-organisms (bacteria and viruses) to have a final concentration of 10^7 CFU/L (CFU = Colony Forming Units); the spiked tap water was filtered through the filter element and tested following the Standard Methods of Analysis of Water 21st Edition methods SM 9222-D (bacteria); method SM 9510-B (Virus); method SM 9711-B (Cryptosporidium parvum) the micro-organisms in the tap water were reduced by 99.9999% for up to 100 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Escherichia coli NSI Lab Solutions Catalog # 9001H, Lot # 052215.

Klebsiella pneumoniae NSI Lab Solutions Catalog # 8167, Lot # 092215.

Pseudomona aeruginosa NSI Solutions Catalog 10662, Lot 022316. Enterococcus faecalis NSI Solutions Catalog .

Rotavirus Zepto Metrix Corp. Catalog # Natrota-GP, Lot # 495671.-5

Polystyrene Microsphere 3 μ m (Cryptosporidium parvum, Giardia lamblia) Polysciences, Inc. Catalog # 17143-5

Amscope EPI Fluorescence Microscope FM-320TA-3M. Barnstead Lab-Line Incubator.

ProOne ProMax Full Spectrum Filter.

PROCEDURE

One hundred gallons of tap water was spiked with micro-organisms in a tank and mixed well; this solution was tested and adjusted to have a final concentration of 10^7 CFU/L; the influent water properties are summarized in Table 1 below. The solution was filtered through the In-line Filter using a 0.5 GPM electric pump at 20 minutes on/20 minutes off cycle, tested every 20 gallons following the Standard Methods of Analysis of Water 21st Edition methods SM 9222-D (bacteria); and method SM 9510-B (Virus), Polystyrene Microsphere method SM 9711-B (Cryptosporidium parvum). The results are summarized in Tables 2, 3, and 4 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.35	7.00 to 8.00
Temperature	20.0 °C	20 \pm 2.5°C
TDS	480 mg/L	200 to 500 mg/L
Turbidity	0.90 NTU	<1 Nephelometric Turbidity Units

Table 2
Escherichia coli Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	NSF % Reduction requirement \geq 99.9999%
Initial (0.1 gallons)	10^7 /L	<10 CFU/L	99.9999	Passed
100 gallons	10^7 /L	50 CFU/L	99.9999	Passed

Table 3
Klebsiella pneumoniae Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	NSF % Reduction requirement \geq 99.9999%
Initial (0.1 gallons)	10^7 /L	<10 CFU/L	99.9999	Passed
100 gallons	10^7 /L	60 CFU/L	99.9999	Passed

Table 4

Pseudomona aeruginosa Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	NSF % Reduction requirement $\geq 99.9999\%$
Initial (0.1 gallons)	$10^7/L$	<10 CFU/L	99.9999	Passed
100 gallons	$10^7/L$	50 CFU/L	99.9999	Passed

Table 5

Enterococcus faecalis Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	NSF % Reduction requirement $\geq 99.9999\%$
Initial (0.1 gallons)	$10^7/L$	<10 CFU/L	99.9999	Passed
100 gallons	$10^7/L$	60 CFU/L	99.9999	Passed

Table 6

Polyspheres (Cysts) Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	NSF % Reduction requirement $\geq 99.9999\%$
Initial (0.1 gallons)	$10^7/L$	<10 CFU/L	99.9999	Passed
100 gallons	$10^7/L$	80 CFU/L	99.9999	Passed

Table 7

Rotavirus Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	NSF % Reduction requirement $\geq 99.95\%$
Initial (0.1 gallons)	$10^7/L$	<10 PFU/L	99.9999	Passed
100 gallons	$10^7/L$	80 PFU/L	99.9999	Passed

CONCLUSION:

The ProOne ProMax Full Spectrum Filter reduces the Micro-organisms concentration by 99.9999% for up to 100 gallons, tested following the NSF P-231.

CERTIFICATION OF RESULTS:

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

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Lab Director

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PROONE PROMAX FULL SPECTRUM FILTER MICRO-PLASTIC TEST REPORT

Report # 17-270-Micro-Plastic (ProOneProMax Full SpectrumFilter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

Fifty gallons of tap water was spiked with Micro-Plastic Standard Solution to have a final concentration of 10⁶ microplastic/L; the spiked tap water was filtered through the filter element and tested; the ProOneProMax Full Spectrum Filter reduces the Micro-Plastic by more than 99.99% for up to 50 gallons.

INTRODUCTION

Fifty gallons of tap water was spiked with Micro-Plastic Standard Solution to have a final concentration of 10⁶ microplastic/L, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter reduces the Micro-Plastic by more than 99.99% for up to 50 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Amscope EPI Fluorescence Microscope FM-320TA-3M. Barnstead Lab-Line Incubator.

Polystyrene Microsphere 2 μm, Polysciences, Inc.

ProOneProMax Full Spectrum Filter.

PROCEDURE

Fifty gallons of tap water was spiked with Micro-Plastic Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration of 10⁶ microplastic/L, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested following the EPA method 522 for Micro-Spheres in drinking water. The results are summarized in Table 2 below.

RESULTS

**Table 1
Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.50	7.00 to 8.00
Temperature	22.0 °C	20 ± 2.5 °C
TDS	350 mg/L	200 to 500 mg/L
Turbidity	0.85 NTU	<1 Nephelometric Turbidity Units

**Table 2
Filtered Water Micro-Plastic Test Results**

Drinking Water Contaminant Tested	Influent Water Results	Effluent Water Test Results	% Reduction at 50 gallons
Micro-Plastic	10 ⁶ micro-plastic/L	<10 microplastic/L	>99.9 %

CONCLUSION:

The ProOneProMax Full Spectrum Filter reduces the Micro-Plastic by more than 99.99% for up to 50 gallons.



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CERTIFICATION OF RESULTS:

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PROONE PROMAX FULL SPECTRUM FILTER INORGANIC NON-METAL CONTAMINANTS TEST REPORT

Report # 17-03-Inorganic Non-Metal Contaminants (ProOneProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Inorganic Non-Metal Contaminants Standard Solution to have a final concentration specified by the NSF Std. 42/53; the spiked tap water was filtered through the filter element and tested; the ProOneProMax Full Spectrum Filter meets the NSF reduction test, for Chlorine, Chloramine, and Fluoride up to 100 gallons, tested following the NSF Std. 42/53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Inorganic Non-Metal Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF reduction test, for Chlorine, chloramine, and Fluoride up to 100 gallons, tested following the NSF Std. 42/53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Unico Spectrophotometer

Sigma Aldrich Sodium Hypochlorite Reagent, Sodium Fluoride, Sodium Hexafluorosilicate, Fluorosilicic Acid, Ammonium Chloride.

ProOneProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Inorganic Non-Metal Contaminants Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 42/53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the Standard Method of Analysis for Inorganic Non-Metal Contaminants in drinking water. The chloramine solution was produced by preparing ammonium chloride solution first, then sodium hypochlorite as per NSF Std 42 procedure. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.45	7.00 to 8.00
Temperature	20.5 °C	20 ± 2.5 °C
Turbidity	0.85 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Inorganic Non-Metal Contaminants Test Results

Drinking Water Contaminant Tested	Influent Water Results in mg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Chlorine	2.0	1.0	99.9+ %
Sodium Fluoride	8.1	1.5	88.3 %
Hexafluorosilicate	8.2	1.5	89.3 %
Fluorosilic Acid	8.0	1.5	87.8 %
Chloramine	3.0	0.5	99.9+ %

CONCLUSION:

The ProOneProMax Full Spectrum Filter meets the NSF reduction test, for Chlorine, Chloramine, and Fluoride up to 100 gallons, tested following the NSF Std. 42/53.



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CERTIFICATION OF RESULTS:

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PROONE PROMAX FULL SPECTRUM FILTER PARASITES TEST REPORT

Report # 17-145-Parasites (ProOne ProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One hundred gallons of tap water was spiked with parasites to have a final concentration of 10^4 Units/L; the spiked tap water was filtered through the filter element and tested; the parasites in the tap water were reduced by more than 99.999 % after 100 gallons.

INTRODUCTION

One hundred gallons of tap water was spiked with parasites to have a final concentration of 10^4 Units/L; the spiked tap water was filtered through the filter element and tested following the Standard Methods of Analysis of Water 21st Edition, the parasites in the tap water were reduced by more than 99.999 % after 100 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Copepods 5280+, Algae Barn, Catalog #5280, Lot # 1705659.

Microspora amoena, Carolina Biological Supply Company, Catalog #152350.

Cyanobacteria Set, Carolina Biological Supply Company, Catalog #151515.

Amscope EPI Fluorescence Microscope FM-320TA-3M. Barnstead Lab-Line Incubator.

ProOne ProMax Full Spectrum Filter.

PROCEDURE

One hundred gallons of tap water was spiked with parasites in a tank and mixed well; this solution was tested and adjusted to have a final concentration of 10^4 Units/L; the influent water properties are summarized in Table 1 below. The solution was filtered through the In-line Filter using a 0.5 GPM electric pump at 20 minutes on/20 minutes off cycle, tested every 20 gallons following the Standard Methods of Analysis of Water 21st Edition. The results are summarized in Tables 2, and 3 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.25	7.00 to 8.00
Temperature	20.0 °C	20 ± 2.5°C
TDS	475 mg/L	200 to 500 mg/L
Turbidity	0.95 NTU	<1 Nephelometric Turbidity Units

Table 2
Copepods Parasites Test Results

Parasite Tested	Influent Water Concentration	NSF % Reduction requirement	% Reduction At 100 gallons
Tigriopus californicus	10^4 /L	≥99.999%	99.999
Tisbe biminiensis	10^4 /L	≥99.999%	99.999
Apocyclops panamensis	10^4 /L	≥99.999%	99.999

Table 3
Blue-Green Algae Test Results

Accumulated volume	Influent Water Concentration	NSF % Reduction requirement	% Reduction At 100 gallons
Microspore amoena	10^4 /L	≥99.999%	99.999
Anabaena	10^4 /L	≥99.999%	99.999
Eucapsis	10^4 /L	≥99.999%	99.999
Fischerella	10^4 /L	≥99.999%	99.999
Spirulina	10^4 /L	≥99.999%	99.999
Merismopedia	10^4 /L	≥99.999%	99.999
Toltpothrix	10^4 /L	≥99.999%	99.999



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CONCLUSION:

The ProOneProMax Full Spectrum Filter reduces the Parasites concentration by more than 99.999% for up to 100 gallons.

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.

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ENVIROTEK LABORATORIES, INC.

33 Third Street, Bordentown, NJ 08505

PHONE 856-583-0445 www.enviroteklab.com

EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

PROONE PROMAX FULL SPECTRUM FILTER PESTICIDE CONTAMINANTS TEST REPORT

Report # 17-03-Pesticide Contaminants (ProOne ProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Pesticide Contaminants (Industrial Waste Compounds) Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Pesticide Contaminants reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Pesticide Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Pesticide Contaminants reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek Pesticides Mix AB#3 Standard Solution Catalog # 32415

CPI Pesticide Mix 12-681 Standard Solution Catalog # Z-135681-06

Restek Glyphosate Standard Solution Catalog #32426

ProOne ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Pesticide Contaminants Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 525 for Pesticide Contaminants in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.85	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5°C
TDS	410 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Pesticide Contaminants Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Alachlor	52.3	Not specified	99.9+ %
Hexachlorobenzene	54.2	Not specified	99.9+ %
Hexachlorocyclopentadiene	56.9	Not specified	99.9+ %
Delta-BHC	49.4	Not specified	99.9+ %
Propachlor	51.8	Not specified	99.9+ %
Molinate	54.2	Not specified	99.9+ %
Alpha-BHC	47.0	Not specified	99.9+ %
Beta-BHC	47.9	Not specified	99.9+ %
Gamma-BHC (Lindane)	49.3	0.2 µg/L	99.9+ %
Atrazine	51.9	Not specified	99.9+ %
Simazine	52.0	Not specified	99.9+ %
Metribuzin	52.2	Not specified	99.9+ %
Heptachlor	47.6	0.4 µg/L	99.9+ %
Metolachlor	50.4	Not specified	99.9+ %
Butylate	44.5	Not specified	99.9+ %
2,4-D	50.4	Not specified	99.9+ %



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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Aldrin	45.8	Not specified	99.9+ %
Heptachlor Epoxide	51.5	Not specified	99.9+ %
Trans-Chlordane (Nonachlor)	49.5	Not specified	99.9+ %
Butachlore	49.3	Not specified	99.9+ %
Endosulfan I	43.9	Not specified	99.9+ %
Cis-Chlordane	49.8	Not specified	99.9+ %
p,p'-DDE	57.4	Not specified	99.9+ %
Dieldrin	47.5	Not specified	99.9+ %
Endrin	63.9	2 µg/L	99.9+ %
Endosulfan II	33.7	Not specified	99.9+ %
p,p'-DDD	44.0	Not specified	99.9+ %
Endrin Aldehyde	46.1	Not specified	99.9+ %
p,p'-DDT	59.5	Not specified	99.9+ %
Endosulfan Sulfate	15.0	Not specified	99.9+ %
Endrin Ketone	7.3	Not specified	99.9+ %
Methoxychlor	49.1	Not specified	99.9+ %
Glyphosate	2135	700 µg/L	99.9+ %

CONCLUSION:

The ProOneProMax Full Spectrum Filter meets the NSF Pesticide Contaminants reduction test for up to 100 gallons, tested following the NSF Std. 53.

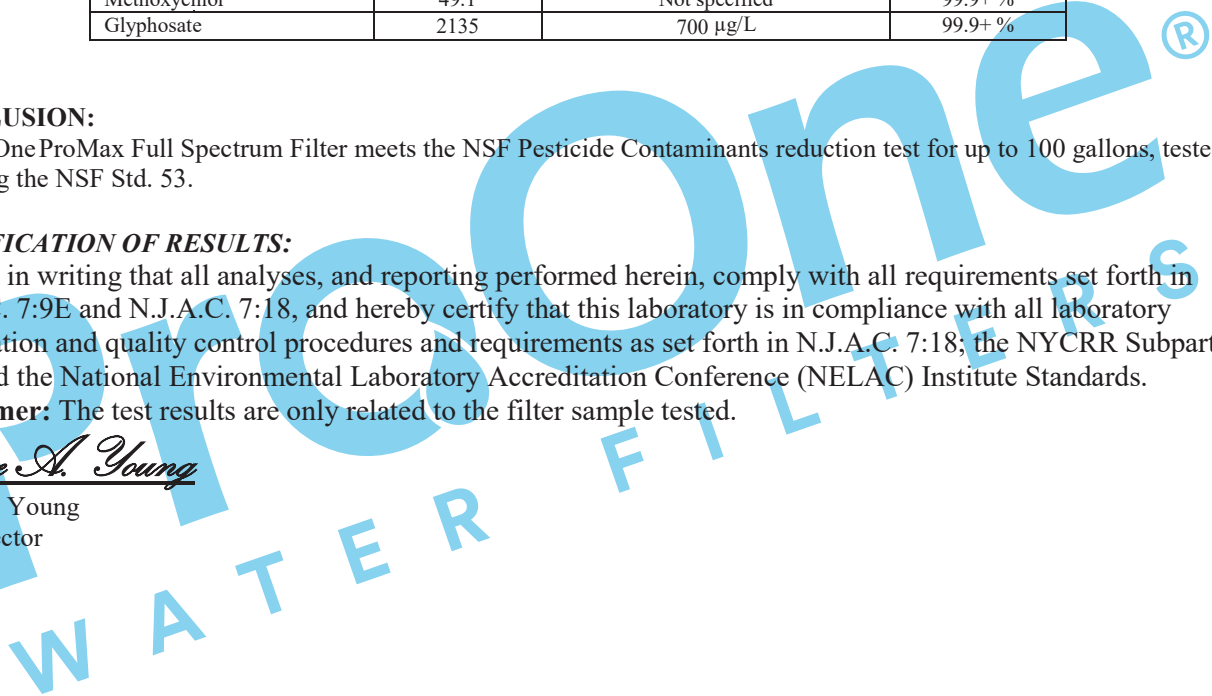
CERTIFICATION OF RESULTS:

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 A. Young

Jaime A. Young
Lab Director



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PROONE PROMAX FULL SPECTRUM FILTER PERFLUORINATED ORGANIC ACIDS TEST REPORT

Report # 17-03-Perfluorinated Organic Acids (ProOne ProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Perfluoro-Octanoic Acid (PFOA) Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Perfluoro-Octanoic Acid reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Perfluoro-Octanoic Acid Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Perfluoro-Octanoic Acid reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Sigma Aldrich Pefluoro-Octanoic Acid Reagent Grade

ProOne ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Perfluoro-Octanoic Acid Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method for Perfluoro-Octanoic Acid in drinking water. The results are summarized in Table 2 below.

RESULTS

**Table 1
Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.85	7.00 to 8.00
Temperature	21.5 C	20 2.5 C
TDS	315 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

**Table 2
Filtered Water Perfluorinated Organic Acids Test Results**

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Perfluorooctanoic acid (surrogate)	2.2 µg/L	0.02	>99.9 %
Perfluorobutane Sulfonate (PFBS)	2.2 µg/L	0.02	>99.9 %
Perfluorodecanoic acid (PFDA)	2.2 µg/L	0.02	>99.9 %
Perfluorohexanoic acid (PFHxA)	2.2 µg/L	0.02	>99.9 %
Perfluorononanoic acid (PFNA)	2.2 µg/L	0.02	>99.9 %
Perfluorooctane Sulfonate (PFOS)	2.2 µg/L	0.02	>99.9 %
Perfluorohexane Sulfonate (PFSxS)	2.2 µg/L	0.02	>99.9 %
Polytetrafluoroethylene (PTFE)	2.2 µg/L	0.02	>99.9 %
Fluorotelomer alcohol 8:2	2.2 µg/L	0.02	>99.9 %



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CONCLUSION:

The ProOneProMax Full Spectrum Filter meets the NSF Perfluorinated Organic Acids reduction test for up to 100 gallons, tested following the NSF Std. 473.

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 A. Young

Jaime A. Young
Lab Director

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PROONE PROMAX FULL SPECTRUM FILTER PHARMACEUTICAL DRUGS TEST REPORT

Report # 17-3-Pharmaceutical Drugs (ProOneProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Pharmaceutical Drugs Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOneProMax Full Spectrum Filter meets the NSF Pharmaceutical Drugs reduction test up to 100 gallons, tested following the NSF Std 401.

INTRODUCTION

One Hundred gallons of tap water was spiked with Pharmaceutical Drugs Standard Solution to have a final concentration specified by the NSF Std. 401, the spiked tap water was filtered through the filter element and tested; the ProOneProMax Full Spectrum Filter meets the NSF Pharmaceutical Drugs reduction test up to 100 gallons, tested following the NSF Std. 401.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek Pharmaceutical Drugs Mix #1 31116, Mix #2 31118, Mix #3 31117

ProOneProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Pharmaceutical Drugs Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 401, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method for Pharmaceutical Drugs in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.30	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5 °C
TDS	390 mg/L	200 to 500 mg/L
Turbidity	0.60 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Pharmaceutical Drugs Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Bisphenol A	19.3	<0.2	99.9+ %
Ibuprofen	12.1	<0.2	99.9+ %
Trimethoprim	19.8	<0.2	99.9+ %
Naproxen	19.5	<0.2	99.9+ %
Acetaminophen	20.3	<0.2	99.9+ %
Ciprofloxacin	17.9	<0.2	99.9+ %
Sulfamethoxazole	20.4	<0.2	99.9+ %
17-beta-Estradiol	19.9	<0.3	99.9+ %
Caffeine	19.8	<0.2	99.9+ %
Fluoxetine	18.9	<0.2	99.9+ %
Gemfibrozil	16.7	<0.2	99.9+ %
Triclosan	16.8	<0.2	99.9+ %
Estrone	20.7	<0.2	99.9+ %
Diclofenac Sodium	22.2	<0.2	99.9+ %
Primidone	13.1	<0.06	99.9+ %
Carbamazepine	16.5	<0.02	99.9+ %
Erythromycin	ND	<0.2	99.9+ %
Testosterone	8.8	<0.01	99.9+ %
Progesterone	20.0	<0.01	99.9+ %
4-tert-Octylphenol	20.0	<0.01	99.9+ %



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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA % Reduction Limit	% Reduction at 100 gallons
17-alpha-Ethinylestradiol	ND	<0.01	99.9+ %
4-para-Nonylphenol	20.0	<0.1	99.9+ %

CONCLUSION:

The ProOneProMax Full Spectrum Filter meets the NSF Pharmaceutical Drugs reduction test for up to 100 gallons, tested following the NSF Std. 401.

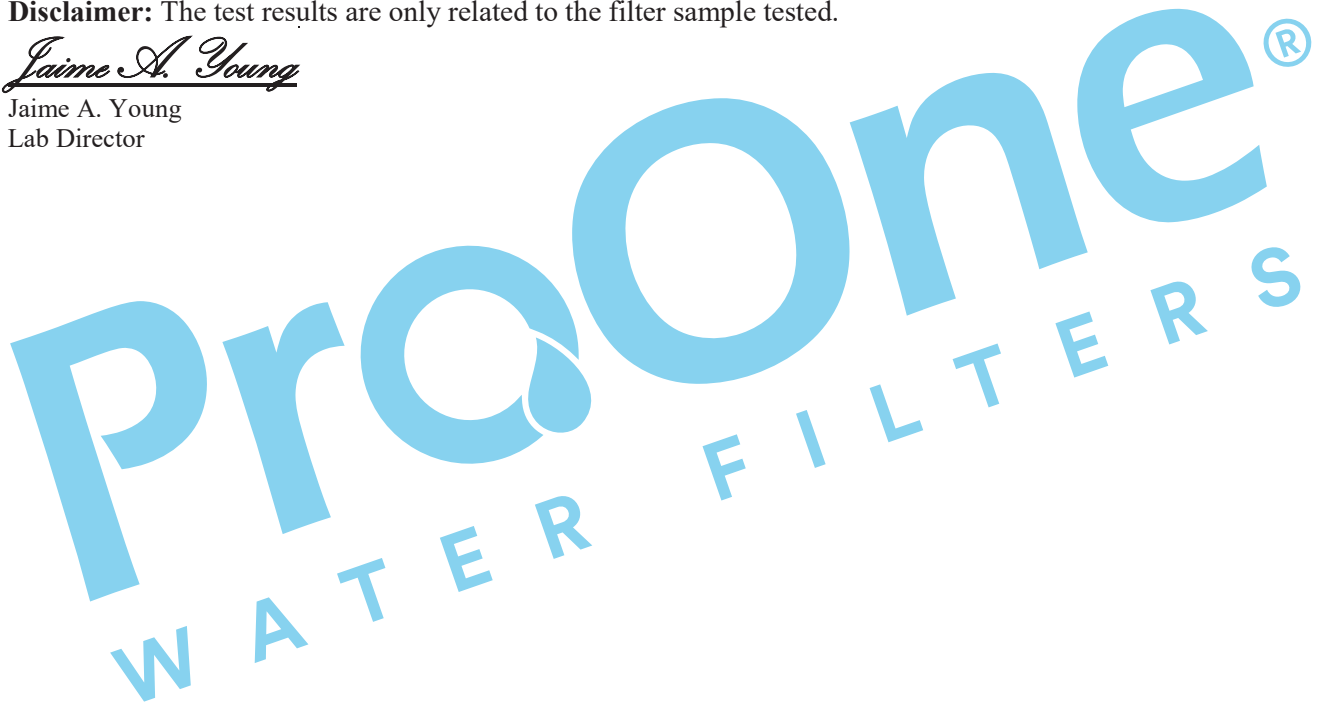
CERTIFICATION OF RESULTS:

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 A. Young

Jaime A. Young
Lab Director



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PROONE PROMAX FULL SPECTRUM FILTER SEMIVOLATILE CONTAMINANTS TEST REPORT

Report # 17-03-Semivolatile Contaminants (ProOne ProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Semivolatile Organic Compounds (Industrial Waste Compounds) Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Semivolatile Organic Compounds reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Semivolatile Organic Compounds (Industrial Waste Compounds) Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF Semivolatile Organic Compounds reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek Semivolatile Mega Mix Standard Solution

ProOne ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Semivolatile Organic Compounds Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 525 for Semivolatile Organic Compounds in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.65	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5°C
TDS	385 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Semivolatile Organic Compounds Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
N-Nitrosodimethylamine	50.68	Not specified	99.9+ %
Phenol	50.89	Not specified	99.9+ %
Bis(2-chloroethyl) ether	49.68	Not specified	99.9+ %
2-Chlorophenol	49.85	Not specified	99.9+ %
1,3-Dichlorobenzene	49.38	Not specified	99.9+ %
1,4-Dichlorobenzene	49.50	Not specified	99.9+ %
1,2-Dichlorobenzene	49.38	Not specified	99.9+ %
2,2-Oxybis(1-chloropropane)	49.04	Not specified	99.9+ %
Hexachloroethane	48.14	Not specified	99.9+ %
N-Nitroso-di-n-propylamine	48.82	Not specified	99.9+ %
Nitrobenzene	48.29	Not specified	99.9+ %
Isophrone	48.18	Not specified	99.9+ %
2-Nitrophenol	48.78	Not specified	99.9+ %
2,2-Dimethylphenol	48.11	Not specified	99.9+ %
Bis(2-chloroethoxy)methane	47.81	Not specified	99.9+ %
2,4-Dichlorophenol	48.39	Not specified	99.9+ %



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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA % Reduction Limit	% Reduction at 100 gallons
1,2,4-Trichlorobenzene	48.84	Not specified	99.9+ %
Naphthalene	47.93	Not specified	99.9+ %
Hexachlorobutadiene	49.06	Not specified	99.9+ %
4-Chloro-3-methylphenol	49.06	Not specified	99.9+ %
Hexachlorocyclopentadiene	50.69	<0.2 µg/L	99.9+ %
2,4,6-Trichlorophenol	50.00	Not specified	99.9+ %
2-Chloronaphthalene	49.14	Not specified	99.9+ %
Acenaphthylene	48.81	<0.2 µg/L	99.9+ %
Dimethylphthalate	49.92	Not specified	99.9+ %
2,6-Dinitrotoluene	46.55	Not specified	99.9+ %
Acenaphthene	35.98	Not specified	99.9+ %
2,4-Dinitrophenol	50.00	Not specified	99.9+ %
2,4-Dinitrotoluene	49.22	Not specified	99.9+ %
4-Nitrotoluene	47.54	Not specified	99.9+ %
Fluorene	47.87	Not specified	99.9+ %
4-Chlorophenyl phenyl ether	49.80	Not specified	99.9+ %
Diethylphthalate	49.19	Not specified	99.9+ %
Dinitro-o-cresol	48.24	Not specified	99.9+ %
Diphenylamine	73.08	Not specified	99.9+ %
4-Bormophenyl phenyl ether	46.84	Not specified	99.9+ %
Haxachlorobenzene	46.80	Not specified	99.9+ %
Pentachlorophenol	50.30	Not specified	99.9+ %
Phenanthrene	49.89	<0.2 µg/L	99.9+ %
Anthracene	49.84	<0.2 µg/L	99.9+ %
Di-n-butylphthalate	50.38	Not specified	99.9+ %
Fluoranthene	50.42	Not specified	99.9+ %
Pyrene	49.68	Not specified	99.9+ %
Benzyl butyl phthalate	50.94	Not specified	99.9+ %
Benzo(a) anthracene	50.34	Not specified	99.9+ %
Chrysene	50.30	<0.2 µg/L	99.9+ %
Bis(2-ethylhexyl) phthalate	52.04	Not specified	99.9+ %
Di-n-octyl phthalate	53.16	Not specified	99.9+ %
Benzo(b) fluoranthene	52.31	Not specified	99.9+ %
Benzo(k) fluoranthene	52.31	Not specified	99.9+ %
Benzo(a) pyrene	50.59	Not specified	99.9+ %
Indeno(1,2,3-cd) pyrene	50.23	Not specified	99.9+ %
Dibenzo(a,h)anthracene	50.45	Not specified	99.9+ %
Benzo(g,h,i) perylene	50.65	Not specified	99.9+ %

CONCLUSION:

The ProOne ProMax Full Spectrum Filter meets the NSF Semivolatile Organic Compounds reduction test for up to 100 gallons, tested following the NSF Std. 53.

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 A. Young

Jaime A. Young
Lab Director



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Envirotek Laboratories, Inc. Report # 17-03-Semivolatiles

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PROONE PROMAX FULL SPECTRUM FILTER VOC'S CONTAMINANTS TEST REPORT

Report # 17-03-VOC's Contaminants (ProOneProMax Full Spectrum Filter)

Report Date: 05/01/2020

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Volatile Organic Compounds (VOC's) Standard Solution to have a final concentration specified by the NSF Std. 53; the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF VOC's reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Volatile Organic Compounds (VOC's) Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF VOC's reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek Mega Mix Standard Solution Catalog

ProOneProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with VOC's Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 53, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 524.2 for VOC's in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.55	7.00 to 8.00
Temperature	20.5 °C	20 ± 2.5 °C
TDS	375 mg/L	200 to 500 mg/L
Turbidity	0.65 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water VOC's Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Dichlorodifluoromethane	81.53	Not specified	99.9+ %
Chloromethane	100.09	Not specified	99.9+ %
Vinylchloride	91.50	2 µg/L	99.9+ %
Bromomethane	110.70	Not specified	99.9+ %
Chloroethane	116.73	Not specified	99.9+ %
Trichlorofluoromethane	95.06	Not specified	99.9+ %
1,1-Dichloroethene	89.04	Not specified	99.9+ %
Methylene Chloride	49.45	Not specified	98.9 %
trans-1,2-Dichloroethene	88.45	100 µg/L	99.9+ %
MTBE	87.62	5 µg/L	99.0 %
1,1-Dichloroethane	81.79	Not specified	99.9+ %
cis-1,2-Dichloroethene	86.36	5 µg/L	99.9+ %
2,2-Dichloropropane	79.99	5 µg/L	99.9+ %
Bromochloromethane	89.59	Not specified	99.9+ %
Carbon Tetrachloride	76.97	5 µg/L	99.9+ %
1,1,1-Trichloroethane	81.27	Not specified	99.9+ %
1,1-Dichloropropene	82.96	Not specified	99.9+ %
1,2-Dichloroethane	80.09	Not specified	99.9+ %
Trichloroethene	80.41	Not specified	99.9+ %



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EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Benzene	86.50	5 µg/L	96.7 %
Dibromomethane	90.60	Not specified	99.9+ %
1,2-Dichloropropane	83.38	5 µg/L	99.9+ %
cis-1,3-Dichloropropene	90.36	5 µg/L	99.9+ %
Toluene	1087	1000 µg/L	99.3 %
trans-1,3-Dichloropropene	89.59	5 µg/L	99.9+ %
Tetrachloroethene	91.00	Not specified	99.9+ %
1,1,2-Trichloroethane	91.51	5 µg/L	99.9+ %
1,3-Dichloropropane	90.94	Not specified	99.9+ %
Ethylbenzene	103.08	700 µg/L	99.9+ %
Chlorobenzene	87.35	100 µg/L	99.9+ %
1,1,1,2-Tetrachloroethane	59.81	Not specified	99.9+ %
Xylenes	10085	10000 µg/L	99.9+ %
Styrene	104.57	Not specified	99.9+ %
Bromoform	102.68	Not specified	99.9+ %
Isopropylbenzene	89.23	Not specified	99.9+ %
n-Propylbenzene	89.06	Not specified	99.9+ %
Bromobenzene	104.51	Not specified	99.9+ %
1,1,2,2-Tetrachloroethane	104.51	Not specified	99.9+ %
1,3,5-Trimethylbenzene	93.04	5 µg/L	99.9+ %
2-Chlorotoluene	97.15	5 µg/L	99.9+ %
1,2,3-Trichloropropane	89.96	5 µg/L	99.9+ %
4-Chlorotoluene	89.23	Not specified	99.9+ %
tert-Butylbenzene	94.49	Not specified	99.9+ %
1,2,4-Trimethylbenzene	91.75	Not specified	99.9+ %
sec-Butylbenzene	91.37	5 µg/L	99.9+ %
4-Isopropyltoluene	89.16	5 µg/L	99.9+ %
1,3-Dichlorobenzene	89.09	5 µg/L	99.9+ %
1,4-Dichlorobenzene	91.70	5 µg/L	99.9+ %
n-Butylbenzene	94.32	Not specified	99.9+ %
1,2-Dichlorobenzene	86.43	Not specified	99.9+ %
Hexachlorobutadiene	90.26	Not specified	99.9+ %
1,2,4-Trichlorobenzene	92.76	Not specified	99.9+ %
Naphthalene	105.60	Not specified	99.9+ %
1,2,3-Trichlorobenzene	92.70	Not specified	99.9+ %
Chloroform	78.97	Specified as THM's	97.0 %
Bromodichloromethane	85.53	Specified as THM's	99.9+ %
Chlorodibromomethane	92.04	Specified as THM's	99.9+ %
Bromoform	102.68	Specified as THM's	99.9+ %
Total Trihalomethanes (TTHM's)	359.22	80 µg/L	99.1 %

CONCLUSION:

The ProOneProMax Full Spectrum Filter meets the NSF VOC's reduction test for up to 100 gallons, tested following the NSF Std. 53.



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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 A. Young

Jaime A. Young
Lab Director

ProOne®
WATER FILTERS

The reduction of contaminants or other substances that may be present in your water supply may vary depending a wide variety of factors. The purchaser of this filter cannot rely on the results from this lab report, and there is no guarantee that the purchaser of this filter will obtain the same or similar results to those in this lab report. Actual results may vary from the results in this lab report depending upon water sources, the installation of the water filter and related products and other factors. The contaminants or other substances reduced are not necessarily present in all users' water. Some contaminants maybe more easily filtered than others. Percentage of reduction will vary over the life of the filter based on the level of contaminants found in your water supply, user rate and psi of your water source. Testing was performed under standard laboratory conditions. Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection.

This filter is covered by a 30-day money back refund and limited warranty. For more information, see www.prooneusa.com, Terms and Conditions.



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PROONE PROMAX FULL SPECTRUM FILTER 1,4-DIOXANE TEST REPORT

Report # 17-102-1,4-Dioxane (ProOne ProMax Full Spectrum Filter)

Report Date: 04/30/2017

Customer Name: ProOne

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with 1,4-Dioxane Standard Solution to have a final concentration of 20 µg/L ; the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the EPA 1,4-Dioxane reduction test up to 100 gallons.

INTRODUCTION

One Hundred gallons of tap water was spiked with 1,4-Dioxane Standard Solution to have a final concentration of 20 µg/L, the spiked tap water was filtered through the filter element and tested; the ProOne ProMax Full Spectrum Filter meets the NSF 1,4-Dioxane reduction test up to 100 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.
Restek 1,4-Dioxane Reagent Grade Standard Solution.
ProOne ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with 1,4-Dioxane Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration of 20 µg/L, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 522 for 1,4-Dioxane in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.55	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5°C
TDS	325 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water 1,4-Dioxane Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA % Reduction Limit	% Reduction at 100 gallons
1,4-Dioxane	20.2	0.03	>99.9 %

CONCLUSION:

The ProOne ProMax Full Spectrum Filter meets the EPA 1,4-Dioxane reduction test for up to 100 gallons (Health advisory limit 0.2 µg/L).



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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.

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Lab Director

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WATER FILTERS

The reduction of contaminants or other substances that may be present in your water supply may vary depending on its content. The contaminants or other substances reduced are not necessarily present in all users water. Some contaminants may be more easily filtered than others. Percentage of reduction will vary over the life of the filter based on the level of contaminant(s) found in your water supply, user rate and psi of your water source. Testing was performed under standard laboratory conditions. Actual performance may vary. Do not use with water that is microbiologically unsafe or of unknown water quality with adequate disinfection.