



# ENVIROTEK LABORATORIES, INC.

120 White Owl Trail, Mullica Hill, NJ 08062  
PHONE 856-478-0010 www.enviroteklab.com  
EPA ID # NJ01298 NJ DEP ID # 08012

## MICROCYSTIN LR REDUCTION TEST REPORT

Report # 14-227-Microcystin LR Reduction Test (ProOne G2.0 Filter System)

Customer Name: ProPur Water Purification Systems

Report Date: August 16, 2014

### EXECUTIVE SUMMARY

Five gallons of tap water were spiked with Microcystin LR to obtain a final concentration of 10 µg/L, the spiked tap water was filtered through the ProOne G2.0 filter system and tested; the Microcystin in the tap water was reduced by at least 99.0%.

### INTRODUCTION

Five gallons of tap water were spiked with Microcystin LR to obtain a final concentration of 10 µg/L, the spiked tap water was filtered through the ProOne G2.0 filter system; the spiked solution and the filtered solution were tested a HPLC/DAD method; the Microcystin in the tap water was reduced by at least 99.0%.

### REAGENTS AND LAB EQUIPMENT

ProOne G2.0 Filter System

Microcystin ALX-350-012-C500 Enzo Life Sciences, Inc. lot 02211428. Standard Grade (99.99%)

Agilent HPLC 1200 DAD System with ChemStation data system.

Agilent Zorbax Eclipse XDB-C18 ODSR 993967-902 column 150 mm lengths, 4.6 mm diameter, 1.8 µm particle size.

Micro syringes and type A glassware necessary to perform the method for drinking water analysis.

### PROCEDURE

Five gallons of tap water were spiked with 190 µg of Microcystin to obtain a final concentration of 10 µg/L. The solution was filtered through ProOne G2.0 filter system; the spiked solution and the filtered solution were tested using HPLC/DAD method. The results are summarized in Tables 1 and 2 below.

### RESULTS

Table 1  
Spiked Tap Water Properties

| Parameter      | Spiked Tap Water | Target                            |
|----------------|------------------|-----------------------------------|
| pH             | 7.55             | 7.00 to 8.00                      |
| TDS            | 450 mg/L         | 200 to 500 mg/L                   |
| Temperature    | 21.5 °C          | 20 ? 2.5°C                        |
| Turbidity      | 0.75 NTU         | < 1 Nephelometric Turbidity Units |
| Free Chlorine  | 0.25 mg/L        | 0.25 to 2.0 mg/L                  |
| Microcystin-LR | 10.2 µg/L        | 10 µg/L                           |

Table 2  
Filtered Water Results

| Parameter Tested | ProOne G2.0 Filtered Water Result | % Reduction |
|------------------|-----------------------------------|-------------|
| Microcystin-LR   | <0.1 µg/L                         | 99.0 %      |

### CONCLUSION

The ProOne G2.0 filter reduced the Microcystin LR concentration in the tap water by at least 99.0 %.

**Jaime A. Young**

Jaime A. Young  
Lab Director

Report # 14-227 MC-LR

Page 1 of 1

The removal/reduction of contaminants or other substances that maybe present in your water supply may vary depending on its content. The contaminants or other substances removed or reduced are not necessarily present in all users' water. Some contaminants maybe more easily filtered than others. Percentage of reductions will vary from approximately 50% to 95% over the life of the filter based on the level of contaminant(s) found in your water supply. Testing was performed under standard laboratory conditions. Actual performance may vary.

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## PROONE-G2.0 NSF PROTOCOL P231 TEST REPORT

Report # 14-286 (ProOne-G2.0)

Report Date: 11/12/2014

Customer Name: Propur Water Purification Systems

### EXECUTIVE SUMMARY

The ProOne-G2.0 filter element was tested for Microbiological Reduction following the NSF protocol P231 for a total volume of 50 gallons. The ProOne-G2.0 filter qualifies as a microbiological water purifier set forth by the NSF protocol P231 for 50 gallons.

### INTRODUCTION

The ProOne-G2.0 filter element was tested for Microbiological Reduction following the NSF protocol P231 for a total volume of 50 gallons. The filter was challenged with tap water adjusted and spiked with Bacteria (*Klebsiella terrigena*); virus (Poliovirus 1 and Rotavirus); and Cyst (*Giardia lamblia*) and tested using Standard Methods for the Examination of Water. The ProOne-G2.0 filter qualifies as a microbiological water purifier set forth by the NSF protocol P231 for 50 gallons.

### REAGENTS, MATERIALS, AND LAB EQUIPMENT

Barnstead Lab-Line Incubator.

*Klebsiella terrigena* (produced by overnight growth in nutrient broth).

Poliovirus 1 (Virus)/Rotavirus (produced by the Smith and Gerba technique from bovine and porcine sources).

*Giardia lamblia* (Polybead 4-6 micron spheres Cat 17134 Lot 614641).

Sterile water, phosphate buffer.

Amscope Microscope Digital Model MD600.

ProOne-G2.0 Water Filter Element.

### PROCEDURE

Flushed the filter with approximately 1 gallon of sterile water. Prepared 5 gallons of challenge influent water daily with *Klebsiella terrigena* at a concentration of  $10^8/L$ , Poliovirus at  $10^7/L$ , Rotavirus at  $10^7/L$ , and *Giardia lamblia* at  $10^6/L$ . Tables 2, 4, 6, and 8 summarize the Influent water properties for each micro-organism. Passed 5 gallons of Influent water through the filter per day, every day until a total volume of 50 gallons passed through the filter. Collected the effluent water and analyzed the filtered water every 5 gallons for micro-organisms following the Standard Methods of Analysis of Water 21<sup>st</sup> Edition, methods SM 9222-F (*Klebsiella*); SM 9510-B (virus); SM9711-B (cyst). The results are summarized in Tables 1, 3, 5, and 7 below.

### RESULTS

**Table 1**  
***Klebsiella terrigena* (Bacteria) Test Results**

| Accumulated volume | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria:<br>Minimum % Reduction 99.9999 |
|--------------------|------------------------------|------------------------------|-------------|--|
| Initial (1 gallon) | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 5 gallons          | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 10 gallons         | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 15 gallons         | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 20 gallons         | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 25 gallons         | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 30 gallons         | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 35 gallons         | $10^8/L$                     | <10 CFU/L                    | >99.9999    | Passed                                   |
| 40 gallons         | $10^8/L$                     | 10 CFU/L                     | 99.9999     | Passed                                   |
| 45 gallons         | $10^8/L$                     | 20 CFU/L                     | 99.9999     | Passed                                   |
| 50 gallons         | $10^8/L$                     | 30 CFU/L                     | 99.9999     | Passed                                   |

**Table 2**  
**Influent Challenge Water Properties**

| Parameter   | Influent Challenge Water | Target                                 |
|-------------|--------------------------|--|
| pH          | 7.20 to 7.50             | 6.5 to 8.5                             |
| Temperature | 20.5 qC to 22.5 qC       | 20 r 5qC                               |
| TDS         | 250 to 450 mg/L          | 50 - 500 mg/L                          |
| Turbidity   | 2.5 to 4.5NTU            | 0.1 to 5 Nephelometric Turbidity Units |
| TOC         | 2.7 to 3.5.mg/L          | 0.1 to 5.0 mg/L                        |

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**Table 3**  
**Poliovirus 1 (Virus) Test Results**

| Accumulated volume | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria: Minimum % Reduction 99.99 |
|--------------------|------------------------------|------------------------------|-------------|-------------------------------------|
| Initial (1 gallon) | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 5 gallons          | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 10 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 15 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 20 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 25 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 30 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 35 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 40 gallons         | 10 <sup>7</sup> /L           | 10 PFU/L                     | 99.99       | Passed                              |
| 45 gallons         | 10 <sup>7</sup> /L           | 10 PFU/L                     | 99.99       | Passed                              |
| 50 gallons         | 10 <sup>7</sup> /L           | 10 PFU/L                     | 99.99       | Passed                              |

**Table 4**  
**Influent Challenge Water Properties**

| Parameter   | Influent Challenge Water | Target                                 |
|-------------|--------------------------|--|
| pH          | 7.20 to 7.80             | 6.5 to 8.5                             |
| Temperature | 18.5 qC to 20.5 qC       | 20 r 5qC                               |
| TDS         | 250 to 350 mg/L          | 50 - 500 mg/L                          |
| Turbidity   | 2.5 to 4.5NTU            | 0.1 to 5 Nephelometric Turbidity Units |
| TOC         | 2.6 to 3.8.mg/L          | 0.1 to 5.0 mg/L                        |

**Table 5**  
**Rotavirus (Virus) Test Results**

| Accumulated volume | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria: Minimum % Reduction 99.99 |
|--------------------|------------------------------|------------------------------|-------------|-------------------------------------|
| Initial (1 gallon) | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 5 gallons          | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 10 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 15 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 20 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 25 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 30 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 35 gallons         | 10 <sup>7</sup> /L           | <10 PFU/L                    | >99.99      | Passed                              |
| 40 gallons         | 10 <sup>7</sup> /L           | 10 PFU/L                     | 99.99       | Passed                              |
| 45 gallons         | 10 <sup>7</sup> /L           | 10 PFU/L                     | 99.99       | Passed                              |
| 50 gallons         | 10 <sup>7</sup> /L           | 10 PFU/L                     | 99.99       | Passed                              |

**Table 6**  
**Influent Challenge Water Properties**

| Parameter   | Influent Challenge Water | Target                                 |
|-------------|--------------------------|--|
| pH          | 7.20 to 7.80             | 6.5 to 8.5                             |
| Temperature | 18.5 qC to 20.5 qC       | 20 r 5qC                               |
| TDS         | 250 to 350 mg/L          | 50 - 500 mg/L                          |
| Turbidity   | 2.5 to 4.5NTU            | 0.1 to 5 Nephelometric Turbidity Units |
| TOC         | 2.6 to 3.8.mg/L          | 0.1 to 5.0 mg/L                        |

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**Table 7**  
**Giardia lamblia (Cyst) Test Results**

| Accumulated volume | Influent Water Concentration | Filtered Water Concentration | % Reduction | Criteria: Minimum % Reduction 99.99 |
|--------------------|------------------------------|------------------------------|-------------|-------------------------------------|
| Initial (1 gallon) | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 5 gallons          | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 10 gallons         | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 15 gallons         | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 20 gallons         | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 25 gallons         | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 30 gallons         | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 35 gallons         | 10 <sup>6</sup> /L           | <10 oocysts/L                | >99.9       | Passed                              |
| 40 gallons         | 10 <sup>6</sup> /L           | 10 oocysts/L                 | 99.9        | Passed                              |
| 45 gallons         | 10 <sup>6</sup> /L           | 10 oocysts/L                 | 99.9        | Passed                              |
| 50 gallons         | 10 <sup>6</sup> /L           | 20 oocysts/L                 | 99.9        | Passed                              |

**Table 8**  
**Influent Challenge Water Properties**

| Parameter   | Influent Challenge Water | Target                                 |
|-------------|--------------------------|--|
| pH          | 7.15 to 7.50             | 6.5 to 8.5                             |
| Temperature | 18.0 qC to 20.5 qC       | 20 r 5qC                               |
| TDS         | 200 to 300 mg/L          | 50 - 500 mg/L                          |
| Turbidity   | 3.5 to 4.5NTU            | 0.1 to 5 Nephelometric Turbidity Units |
| TOC         | 3.0 to 4.5mg/L           | 0.1 to 5.0 mg/L                        |

## CONCLUSION:

The ProOne-G2.0 Filter meets the requirements for the Microbiological Reduction NSF Protocol P231 for 50 gallons. Passed.

*Jaime A. Young*

Jaime A. Young  
Lab Director

The removal/reduction of contaminants or other substances that maybe present in your water supply may vary depending on its content. The contaminants or other substances removed or reduced are not necessarily present in all users' water. Some contaminants maybe more easily filtered than others. Percentage of reductions will vary from approximately 50% to 95% over the life of the filter based on the level of contaminant(s) found in your water supply. Testing was performed under standard laboratory conditions. Actual performance may vary.



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Wilmington, Delaware 19804  
PHONE 856-583-0445 [www.enviroteklab.com](http://www.enviroteklab.com)  
EPA ID # DE00946 IAPMO ID # 000102

## **TEST RESULTS**

**FOR**

**Propur Water Purification Systems**

**1200 BENSTEIN ROAD**

**COMMERCE TWP. MICHIGAN, 48390**

**Filter Element ProOne® G2.0**

**NSF Standard 53, and NSF Standard 42**

**NSF Standard 401 NSF P-473**

**NSF P231**

**Chemical Reduction Tests Results**

**Propur®**  
**Water Filters®**



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 PHONE 856-583-0445 www.enviroteklab.com  
 EPA ID # DE00946 IAPMO ID # 000102

## FILTER ELEMENT PROONE® G2.0 WATER TEST REPORT

Report # 16-326 (Filter Element ProOne® G2.0)  
 Updated Report Date: 05/02/2019  
 Customer Name: Propur Water Purification Systems

| Drinking Water Contaminant Tested            | Influent Water Concentration in µg/L | Filter Element ProOne® G2.0 Effluent Concentration in µg/L | % Reduction |
|--|--------------------------------------|--|-------------|
| <b>Volatile Organic Contaminants in µg/L</b> |                                      |  |             |
| Dichlorodifluoromethane                      | 80.5                                 | <0.1   | 99.9+       |
| Chloromethane                                | 80.2                                 | <0.1   | 99.9+       |
| Vinylchloride                                | 80.3                                 | 1.0  | 98.8        |
| Bromomethane                                 | 80.5                                 | 0.2  | 99.8        |
| Chloroethane                                 | 80.2                                 | 1.9  | 97.6        |
| Trichlorofluoromethane                       | 81.1                                 | 3.49   | 95.7        |
| 1,1-Dichloroethene                           | 83.0                                 | 0.3  | 99.6        |
| Methylene Chloride                           | 81.2                                 | 1.7  | 97.9        |
| trans-1,2-Dichloroethene                     | 81.5                                 | <0.1   | 99.9+       |
| MTBE   | 81.5                                 | 3.0  | 96.3        |
| 1,1-Dichloroethane                           | 82.2                                 | <0.1   | 99.9+       |
| cis-1,2-Dichloroethene                       | 170.1                                | <0.1   | 99.9+       |
| 2,2-Dichloropropane                          | 81.1                                 | <0.1   | 99.9+       |
| Bromochloromethane                           | 80.0                                 | <0.1   | 99.9+       |
| Carbon Tetrachloride                         | 81.0                                 | <0.1   | 99.9+       |
| 1,1,1-Trichloroethane                        | 81.2                                 | <0.1   | 99.9+       |
| 1,1-Dichloropropene                          | 81.2                                 | <0.1   | 99.9+       |
| Benzene                                      | 81.4                                 | <0.1   | 99.9+       |
| 1,2-Dichloroethane                           | 80.4                                 | 0.2  | 99.8        |
| Trichloroethene                              | 180.3                                | 0.2  | 99.9        |
| Dibromomethane                               | 80.1                                 | 0.5  | 99.4        |
| 1,2-Dichloropropane                          | 80.3                                 | 0.8  | 99.0        |
| cis-1,3-Dichloropropene                      | 50.2                                 | 0.2  | 99.6        |
| Toluene                                      | 80.2                                 | 0.2  | 99.8        |
| trans-1,3-Dichloropropene                    | 81.0                                 | <0.1   | 99.9+       |
| Tetrachloroethene                            | 80.1                                 | <0.1   | 99.9+       |
| 1,1,2-Trichloroethane                        | 150.3                                | <0.1   | 99.9+       |
| 1,3-Dichloropropane                          | 79.1                                 | 0.4  | 99.5        |
| Ethylbenzene                                 | 82.0                                 | 0.7  | 99.1        |
| Chlorobenzene                                | 79.5                                 | <0.1   | 99.9+       |
| 1,1,1,2-Tetrachloroethane                    | 79.8                                 | <0.1   | 99.9+       |
| m-Xylene                                     | 70.1                                 | <0.1   | 99.9+       |
| o-Xylene                                     | 70.1                                 | <0.1   | 99.9+       |
| Styrene                                      | 80.0                                 | <0.1   | 99.9+       |
| Isopropylbenzene                             | 80.3                                 | <0.1   | 99.9+       |
| n-Propylbenzene                              | 80.2                                 | <0.1   | 99.9+       |
| Bromobenzene                                 | 80.0                                 | <0.1   | 99.9+       |
| 1,1,2,2-Tetrachloroethane                    | 81.0                                 | <0.1   | 99.9+       |
| 1,3,5-Trimethylbenzene                       | 80.1                                 | <0.1   | 99.9+       |
| 2-Chlorotoluene                              | 80.2                                 | 0.4  | 99.5        |
| 1,2,3-Trichloropropane                       | 80.2                                 | 0.3  | 99.6        |
| 4-Chlorotoluene                              | 80.2                                 | 0.4  | 99.5        |
| tert-Butylbenzene                            | 80.2                                 | <0.1   | 99.9+       |
| 1,2,4-Trimethylbenzene                       | 80.5                                 | <0.1   | 99.9+       |
| sec-Butylbenzene                             | 80.3                                 | <0.1   | 99.9+       |
| 4-Isopropyltoluene                           | 80.2                                 | 0.2  | 99.8        |
| 1,3-Dichlorobenzene                          | 80.1                                 | <0.1   | 99.9+       |
| 1,4-Dichlorobenzene                          | 40.3                                 | <0.1   | 99.9+       |
| n-Butylbenzene                               | 80.2                                 | <0.1   | 99.9+       |
| 1,2-Dichlorobenzene                          | 80.3                                 | <0.1   | 99.9+       |
| Hexachlorobutadiene                          | 44.0                                 | 0.2  | 99.5        |



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 PHONE 856-583-0445 www.enviroteklab.com  
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| Drinking Water Contaminant Tested            | Influent Water Concentration in µg/L | Filter Element ProOne® G2.0 Effluent Concentration in µg/L | % Reduction |
|--|--------------------------------------|--|-------------|
| <b>Volatile Organic Contaminants in µg/L</b> |                                      |  |             |
| 1,2,4-Trichlorobenzene                       | 160.2                                | <0.1   | 99.9+       |
| Naphthalene                                  | 80.4                                 | 0.9  | 98.9        |
| 1,2,3-Trichlorobenzene                       | 80.1                                 | 0.5  | 99.4        |
| <b>Total Trihalomethanes in µg/L</b>         |                                      |  |             |
| Chloroform                                   | 80.1                                 | 1.4  | 98.3        |
| Bromodichloromethane                         | 80.2                                 | 1.1  | 98.6        |
| Chlorodibromomethane                         | 80.4                                 | <0.1   | 99.9+       |
| Bromoform                                    | 80.2                                 | 0.8  | 98.9        |
| Total Trihalomethanes (THMs)                 | 320.9                                | 3.3  | 99.4        |
| <b>Heavy Metal Contaminants in µg/L</b>      |                                      |  |             |
| Aluminum                                     | 220                                  | 4.3  | 98.0        |
| Antimony                                     | 6.2                                  | <0.5   | 99.9+       |
| Arsenic (+3 and +5)                          | 310                                  | 2.7  | 99.7        |
| Beryllium                                    | 50.3                                 | <0.5   | 99.9+       |
| Bismuth                                      | 50.1                                 | 1.2  | 97.6        |
| Cadmium                                      | 30.2                                 | <0.5   | 99.9+       |
| Chromium (+3 and +6)                         | 302                                  | 3.9  | 98.7        |
| Copper                                       | 3050                                 | 310  | 89.8        |
| Iron   | 3030                                 | 31   | 99.0        |
| Lead   | 152                                  | <0.5   | 99.9+       |
| Manganese                                    | 1020                                 | 2.9  | 99.7        |
| Mercury                                      | 6.1                                  | <0.1   | 99.9+       |
| Nickel                                       | 102                                  | 0.7  | 99.3        |
| Selenium                                     | 106                                  | <  | 99.9+       |
| Vanadium                                     | 102                                  | <1   | 99.9+       |
| Zinc   | 102                                  | <1   | 99.9+       |
| <b>Pesticide Contaminants in µg/L</b>        |                                      |  |             |
| 4,4'-DDD                                     | 50.2                                 | <0.1   | 99.9+       |
| 4,4'-DDE                                     | 50.3                                 | <0.1   | 99.9+       |
| 4,4'-DDT                                     | 50.4                                 | <0.1   | 99.9+       |
| Alachlor                                     | 40.4                                 | 0.2  | 99.5        |
| Aldrin                                       | 50.2                                 | <0.1   | 99.9+       |
| Alpha-BHC                                    | 49.8                                 | <0.1   | 99.9+       |
| Ametryn                                      | 50.0                                 | <0.1   | 99.9+       |
| Atraton                                      | 51.2                                 | <0.1   | 99.9+       |
| Atrazine                                     | 9.9                                  | <0.1   | 99.9+       |
| Beta-BHC                                     | 49.9                                 | <0.1   | 99.9+       |
| Bromacil                                     | 51.2                                 | <0.1   | 99.9+       |
| Carbofuran                                   | 80.2                                 | <0.1   | 99.9+       |
| Chlordane                                    | 40.2                                 | 0.2  | 99.5        |
| Chlomeb                                      | 51.0                                 | 0.3  | 99.4        |
| Chlorobenzilate                              | 49.9                                 | 0.3  | 99.4        |
| Chlorothalonil                               | 50.2                                 | 0.2  | 99.6        |
| Chlorprophane                                | 51.2                                 | 0.2  | 99.6        |
| Chlorpyrifos                                 | 51.3                                 | 0.2  | 99.6        |
| Cyanizene                                    | 51.1                                 | 0.3  | 99.4        |
| Delta-BHC                                    | 50.9                                 | 0.4  | 99.2        |
| Dichlorvos                                   | 50.2                                 | 0.3  | 99.4        |
| Dieldrin                                     | 50.9                                 | 0.5  | 99.0        |
| Diphenamid                                   | 51.2                                 | 0.8  | 98.4        |
| Disulfoton                                   | 50.4                                 | 0.9  | 98.2        |
| Endosulfan Sulfate                           | 51.0                                 | 0.5  | 99.0        |
| Endrin                                       | 6.1                                  | 0.8  | 86.9        |
| Endrin Aldehyde                              | 51.5                                 | 0.7  | 98.6        |
| Endrin Ketone                                | 51.0                                 | 0.6  | 98.8        |
| Endusulfan I                                 | 49.8                                 | 0.4  | 99.2        |
| Endusulfan II                                | 50.3                                 | 0.8  | 98.4        |
| Ethoprop                                     | 50.4                                 | 0.9  | 98.2        |



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 EPA ID # DE00946 IAPMO ID # 000102

| Drinking Water Contaminant Tested         | Influent Water Concentration in µg/L | Filter Element ProOne® G2.0 Effluent Concentration in µg/L | % Reduction |
|---|--------------------------------------|--|-------------|
| <b>Pesticide Contaminants in µg/L</b>     |                                      |  |             |
| Fenamiphos                                | 51.2                                 | 0.6  | 98.8        |
| Fenarimol                                 | 50.4                                 | 0.9  | 98.2        |
| Fluoridone                                | 51.4                                 | 0.3  | 99.4        |
| Gamma-BHC (Lindane)                       | 2.1                                  | <0.1   | 99.9+       |
| Glyphosate                                | 798                                  | 0.2  | 100.0       |
| Heptachlor                                | 80.0                                 | 0.6  | 99.3        |
| Heptachlor Epoxide                        | 4.0                                  | 0.6  | 85.0        |
| Methoxychlor                              | 122                                  | 0.8  | 99.3        |
| Molinate                                  | 50.4                                 | 0.6  | 98.8        |
| PCB's                                     | 10.4                                 | 0.7  | 93.3        |
| Prometron                                 | 50.1                                 | 0.2  | 99.6        |
| Simazine                                  | 12.0                                 | 0.1  | 99.2        |
| Toxaphene                                 | 15.3                                 | 0.1  | 99.3        |
| <b>Semivolatile Contaminants in µg/L</b>  |                                      |  |             |
| Acenaphthylene                            | 50.2                                 | 1.0  | 98.0        |
| Anthracene                                | 50.2                                 | 1.1  | 97.8        |
| Benz[a]anthracene                         | 51.8                                 | 1.1  | 97.9        |
| Benzo[b]fluoranthene                      | 50.4                                 | 1.2  | 97.6        |
| Benzo[k]fluoranthene                      | 50.4                                 | 1.3  | 97.4        |
| Benzo[a]pyrene                            | 51.9                                 | 1.2  | 97.7        |
| Benzo[g,h,i]perylene                      | 50.2                                 | 1  | 98.0        |
| Butylbenzylphthalate                      | 50.4                                 | 1.2  | 97.6        |
| Carboxin                                  | 50.5                                 | 1.1  | 97.8        |
| 2-Chlorobiphenyl                          | 50.4                                 | 1.2  | 97.6        |
| Chrysene                                  | 50.5                                 | 1.3  | 97.4        |
| Cycloate                                  | 49.8                                 | 0.5  | 99.0        |
| Dacthal (DCPA)                            | 49.6                                 | 0.5  | 99.0        |
| Diazinon                                  | 50.2                                 | 0.6  | 98.8        |
| Dibenz[a,h]anthracene                     | 50.3                                 | 0.8  | 98.4        |
| Di-n-Butylphthalate                       | 51.4                                 | 0.9  | 98.2        |
| 2,3-Dichlorobiphenyl                      | 52.3                                 | 0.9  | 98.3        |
| Diethylphthalate                          | 50.2                                 | 0.9  | 98.2        |
| Di(2-ethylhexyl)adipate                   | 51.2                                 | 0.2  | 99.6        |
| Di(2-ethylhexyl)phthalate                 | 50.3                                 | 0.8  | 98.4        |
| Dimethylphthalate                         | 51.8                                 | 0.2  | 99.6        |
| EPTC                                      | 52.3                                 | 0.8  | 98.5        |
| Fluorene                                  | 51.2                                 | 0.9  | 98.2        |
| 2,2', 3,3', 4,4', 6-Heptachlorobiphenyl   | 50.0                                 | 0.8  | 98.4        |
| Hexachlorobenzene                         | 49.9                                 | 0.9  | 98.2        |
| 2,2', 4,4', 5,6'-Hexachlorobiphenyl       | 51.2                                 | 0.6  | 98.8        |
| Hexachlorocyclohexane, alpha              | 50.0                                 | 0.9  | 98.2        |
| Hexachlorocyclohexane, beta               | 50.2                                 | 0.9  | 98.2        |
| Hexachlorocyclohexane, delta              | 50.4                                 | 0.9  | 98.2        |
| Hexachlorocyclopentadiene                 | 51.9                                 | 0.9  | 98.3        |
| Hexazinone                                | 51.4                                 | 0.2  | 99.6        |
| Indeno[1,2,3,c,d]pyrene                   | 50.1                                 | 0.8  | 98.4        |
| Isophorone                                | 50.0                                 | 0.2  | 99.6        |
| Merphos                                   | 50.5                                 | 0.2  | 99.6        |
| Methyl Paraoxon                           | 50.8                                 | 0.2  | 99.6        |
| Norflurazon                               | 50.4                                 | 0.2  | 99.6        |
| 2,2', 3,3', 4,5', 6,6'-Octachlorobiphenyl | 51.2                                 | 0.2  | 99.6        |
| Pebulate                                  | 50.8                                 | 0.2  | 99.6        |
| 2,2', 3', 4,6'-Pentachlorobiphenyl        | 49.2                                 | 0.5  | 99.0        |
| Pentachlorophenol                         | 51.2                                 | 0.5  | 99.0        |
| Phenanthrene                              | 50.1                                 | 0.5  | 99.0        |
| cis-Permethrin                            | 50.2                                 | 0.2  | 99.6        |
| trans-Permethrin                          | 49.0                                 | 0.5  | 99.0        |
| Prometon                                  | 51.0                                 | 0.5  | 99.0        |
| Prometryn                                 | 51.0                                 | 0.2  | 99.6        |





# ENVIROTEK LABORATORIES, INC.

Wilmington, Delaware 19804  
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 EPA ID # DE00946 IAPMO ID # 000102

| Drinking Water Contaminant Tested  | Influent Water Concentration in µg/L | Filter Element ProOne® G2.0 Effluent Concentration in µg/L | % Reduction |
|--|--------------------------------------|--|-------------|
| Pronamide  | 49.0                                 | 0.3  | 99.4        |
| Propachlor   | 50.0                                 | 0.3  | 99.4        |
| Propazine  | 50.9                                 | 0.6  | 98.8        |
| Triademefon  | 49.2                                 | 0.9  | 98.2        |
| 2,4,5-Trichlorobiphenyl  | 49.0                                 | 0.2  | 99.6        |
| Tricyclazole   | 49.4                                 | 0.5  | 99.0        |
| Trifluralin  | 50.5                                 | 0.2  | 99.6        |
| Vernolate  | 50.2                                 | 0.3  | 99.4        |
| <b>Disinfectant and Inorganic Non-Metallic Contaminants in mg/L</b>          |                                      |  |             |
| Chloramines  | 3.1                                  | <0.1   | 99.9+       |
| Free Chlorine  | 2.1                                  | <0.1   | 99.9+       |
| Chloride   | 250                                  | <0.1   | 99.9+       |
| Perchlorate  | 0.100                                | <0.004   | 99.9+       |
| Cyanide  | 50                                   | <0.1   | 99.9+       |
| Sodium Fluoride  | 8.0                                  | 0.2  | 97.5        |
| Hexafluorosilicate   | 8.3                                  | 0.4  | 94.0        |
| Fluorosilic Acid   | 8.1                                  | 0.3  | 96.3        |
| Nitrates   | 27.2                                 | 0.5  | 98.2        |
| Nitrites   | 2.9                                  | <0.1   | 99.9+       |
| Turbidity  | 11.0                                 | <0.5   | 99.9+       |
| <b>Herbicide Contaminants in µg/L</b>  |                                      |  |             |
| Dalapon  | 152                                  | 0.1  | 99.9        |
| Dicamba  | 150                                  | 0.5  | 99.7        |
| Dinosep  | 20.2                                 | 0.9  | 95.5        |
| Dichlorporp  | 150                                  | 0.8  | 99.5        |
| 2,4-D  | 210                                  | 0.7  | 99.7        |
| Pentachlorophenol  | 10.2                                 | 0.8  | 92.2        |
| Picoram  | 151                                  | 0.5  | 99.7        |
| 2,4,5-T  | 152                                  | 0.9  | 99.4        |
| 2,4,5-TP (Silvex)  | 151                                  | 0.8  | 99.5        |
| 2,4-DB   | 150                                  | 1.2  | 99.2        |
| Bentazom   | 149                                  | 0.9  | 99.4        |
| DCPA   | 149                                  | 1.3  | 99.1        |
| Quinclorac   | 151                                  | 0.9  | 99.4        |
| Aciflurfen   | 149                                  | 0.7  | 99.5        |
| <b>Pharmaceutical Drugs Contaminants in µg/L</b>                             |                                      |  |             |
| Acetaminofen   | 20.2                                 | 0.8  | 96.0        |
| Caffeine   | 19.8                                 | 0.9  | 95.5        |
| Carbamazepine  | 20.3                                 | 0.8  | 96.1        |
| Ciprofloxacin HCl  | 20.4                                 | 0.9  | 95.6        |
| Erythromycin USP   | 20.5                                 | 0.7  | 96.6        |
| Sulfamethoxazole   | 20.6                                 | 0.5  | 97.6        |
| Trimethoprim   | 21.0                                 | 0.4  | 98.1        |
| Bisphenol A  | 20.9                                 | 0.9  | 95.7        |
| Diclofenac Sodium  | 19.6                                 | 0.9  | 95.4        |
| 4-para-Nonylphenol   | 20.0                                 | 0.6  | 97.0        |
| 4-tert-Octylphenol   | 20.4                                 | 0.8  | 96.1        |
| Primidone  | 20.9                                 | 0.9  | 95.7        |
| Progesterone   | 20.5                                 | 1.1  | 94.6        |
| Gemfibrozil  | 20.4                                 | 1.2  | 94.1        |
| Ibuprofen  | 20.3                                 | 0.9  | 95.6        |
| Naproxen Sodium  | 20.2                                 | 0.9  | 95.5        |
| Triclosan  | 20.9                                 | 1.1  | 94.7        |
| <b>Microbiological Contaminants in Colonies Forming Units/100mL (CFU/mL)</b> |                                      |  |             |
| Total coliform   | 10 <sup>8</sup> /L                   | 1 CFU/100mL  | 99.999+     |
| Eschericia coli  | 10 <sup>8</sup> /L                   | 0 CFU/100mL  | 99.999+     |
| Fecal Coliform   | 10 <sup>8</sup> /L                   | 0 CFU/100mL  | 99.999+     |
| Klebsiella pneumoniae  | 10 <sup>8</sup> /L                   | 0 CFU/100mL  | 99.999+     |



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|   |   |   |                    |
|---|---|---|--------------------|
| Cryptosporidium, Giardia lamblia (polystyrene Microsphere)  | 10 <sup>6</sup> microspheres/L              | <10 oocysts/L   | 99.999+            |
| <b>Radiological Contaminants (pCi/L)</b>  |   |   |                    |
| <b>Gross Alpha:</b><br>Americium 241<br>Plutonium 236<br>Uranium 238<br>Thorium 232<br>Radium 226 and 228<br>Polonium 210 | 35.50 pCi/L                                 | 6.53 pCi/L  | 81.6%              |
| <b>Drinking Water Contaminant Tested</b>  | <b>Influent Water Concentration in µg/L</b> | <b>Filter Element ProOne® G2.0 Effluent Concentration in µg/L</b> | <b>% Reduction</b> |
| <b>Gross Beta:</b><br>Tritium<br>Cobalt 60<br>Strontium 70<br>Technetium 99<br>Iodine 129 and 131<br>Cesium 137           | 24.91 pCi/L                                 | 3.95 pCi/L  | 84.1%              |
| <b>Fluorinated Organic Acids in µg/L</b>  |   |   |                    |
| Perfluorobutane Sulfonate (PFBS)  | 1.0   | <0.002  | 99.9+              |
| Perfluorodecanoic acid (PFDA)   | 1.0   | <0.002  | 99.9+              |
| Perfluorohexanoic acid (PFHxA)  | 1.0   | <0.002  | 99.9+              |
| Perfluorononanoic acid (PFNA)   | 1.0   | <0.002  | 99.9+              |
| Perfluorooctanoic Acid (PFOA)   | 1.0   | <0.002  | 99.9+              |
| Surrogate (C8)  |   |   |                    |
| Perfluorooctane Sulfonate (PFOS)  | 1.0   | <0.002  | 99.9+              |
| Perfluorohexane Sulfonate (PFSxS)   | 1.0   | <0.002  | 99.9+              |
| Polytetrafluoroethylene (PTFE)  | 1.0   | <0.002  | 99.9+              |
| Fluorotelomer alcohol 8:2 (PTOH)  | 1.0   | <0.002  | 99.9+              |
| <b>Copepods (Parasite) Contaminants</b>   |   |   |                    |
| Tigriopus californicus  | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Tisbe biminiensis   | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Apocyclops panamensis   | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| <b>Blue-Green Algae (Parasite) Contaminants</b>   |   |   |                    |
| Microspora amoena (green algae)   | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Anabaena (blue-green algae)   | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Eucapsis (blue-green algae)   | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Fischerella (blue-green algae)  | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Spirulina (blue-green algae)  | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Merismopedia (blue-green algae)   | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| Tolypothrix (blue-green algae)  | 10 <sup>4</sup> /L                          | 0   | 99.999+            |
| <b>Micro-Plastic Contaminants</b>   |   |   |                    |
| Micro-plastic spheres (2 microns size)  | 10 <sup>6</sup> microspheres/L              | <10 microspheres/L  | 99.999+            |
| <b>1,4 – Dioxane</b>  |   |   |                    |
| 1,4-Dioxane   | 20.1  | <0.2  | >99.9%             |



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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 Young  
Lab Director

Propur®  
Water Filters

The reduction of contaminants or other substances that maybe 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 maybe 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.

# ENVIROTEK LABORATORIES, INC.

33 3<sup>rd</sup> Street, Bordentown, NJ 08505  
PHONE 856-478-0010 www.enviroteklab.com  
EPA ID # NJ01298 NJ DEP ID # 08012

## PROPUR™ PROONE® G2.0 MINERAL TEST REPORT

Report # 15-173-2 Propur™ ProOne® G2.0 Filter  
Report Date: 08/10/2015

While there is discussion in the scientific community as to what are “good” and “not so good” minerals as related to drinking water, some familiar minerals considered to be “good minerals” include calcium, magnesium and potassium, and “not so good” to include lead, arsenic, antimony, aluminum and barium.

**Table 1**  
**PROPUR™ FILTER PROONE® G2.0 REDUCTION RESULTS**

| Test Parameter | Influent Water Concentration | Filter Element ProOne G2.0 Results | % Reduction |
|----------------|------------------------------|------------------------------------|-------------|
| Calcium        | 185 mg/L                     | 35 mg/L                            | 81.1        |
| Magnesium      | 18.5 mg/L                    | 19 mg/L                            | 0.0         |
| Potassium      | 40 mg/L                      | 39 mg/L                            | 2.5         |

**Table 2**  
**PROPUR™ FILTER PROONE® G2.0 REDUCTION RESULTS**

| Drinking Water Contaminant Tested | Influent Water Concentration in µg/L | Filter Element ProOne® G 2.0 Effluent Concentration in µg/L | % Reduction |
|-----------------------------------|--------------------------------------|---|-------------|
| Aluminum                          | 220                                  | 4.3   | 98.0        |
| Antimony                          | 6.2                                  | 0.0   | 100.0       |
| Arsenic (+3 and +5)               | 310                                  | 2.7   | 99.7        |
| Barium                            | 250                                  | 2.5   | 99.0        |
| Lead                              | 152                                  | 0.0   | 100.0       |

*Jaime Young*

Jaime Young  
Lab Director

Report #15-173-2, Filter Element ProOne® G2.0  
Page 1 of 1

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The removal/reduction of contaminants or other substances that maybe present in your water supply may vary depending on its content. The contaminants or other substances removed or reduced are not necessarily present in all users' water. Some contaminants maybe more easily filtered than others. Percentage of reductions will vary over the life of the filter based on the level of contaminant(s) found in your water supply. Testing was performed under standard laboratory conditions. Actual performance may vary.