



## **QFT LABORATORY, LLC.**

Williamstown, New Jersey

PHONE 856-583-0445 [www.enviroteklab.com](http://www.enviroteklab.com)

EPA ID # NJ01298 NJ DEP ID # 03048 IAPMO ID #102

# **TEST RESULTS**

**FOR**

**Fairey Industrial Ceramics**

**LYMEDALE CROSS, LOWER MILEHOUSE LANE**

**STAFFORDSHIRE, UK, ST5 9BT**

**ATC Super Sterasyl Filter Candles**

**NSF/ANSI Standards 42, 53, and 401**

**Chemical Reduction Tests Results**



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## ATC SUPER STERASYL FILTER CANDLES WATER TEST REPORT

Report # 19-119

Report Date: 06/20/2019

Customer Name: Fairey Industrial Ceramics

### Introduction

The following test report summarises the performances of ATC Super Sterasyl filters tested under gravity using a range of Pesticides, and Chlorine Contaminants to a capacity of 3030 Liters. The influent and effluent levels plus the filtration efficiencies for each contaminant were measured throughout the test and recorded in the following result tables.

| Contaminant Tested        |           | 10 UV      | 606 liters | 1515 liters | 2121 liters | 2727 liters | 3030 liters | Min Efficiency throughout |
|---------------------------|-----------|------------|------------|-------------|-------------|-------------|-------------|---------------------------|
| Alachlor                  | Influent  | 48.25 ug/L | 49.39 ug/L | 40.32 ug/L  | 48.8 ug/L   | 49.58 ug/L  | 49.25 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.79%     | 99.80%     | 99.75%      | 99.80%      | 99.80%      | 99.80%      | 99.75%                    |
| Hexachlorobenze           | Influent  | 50.58 ug/L | 48.66 ug/L | 62.11 ug/L  | 46.54 ug/L  | 51.25 ug/L  | 52.35 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.80%     | 99.79%     | 99.84%      | 99.79%      | 99.80%      | 99.81%      | 99.78%                    |
| Hexachlorocyclopentadiene | Influent  | 48.55 ug/L | 64.22 ug/L | 79.28 ug/L  | 62.66 ug/L  | 52.45 ug/L  | 52.74 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.79%     | 99.84%     | 99.87%      | 99.84%      | 99.81%      | 99.81%      | 99.79%                    |
| Delta-BHC                 | Influent  | 50.57 ug/L | 48.65 ug/L | 62.09 ug/L  | 46.53 ug/L  | 49.57 ug/L  | 51.24 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.80%     | 99.79%     | 99.84%      | 99.79%      | 99.80%      | 99.80%      | 99.78%                    |
| Porpachlor                | Influent  | 50.57 ug/L | 48.65 ug/L | 62.1 ug/L   | 46.53 ug/L  | 53.26 ug/L  | 52.36 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.80%     | 99.79%     | 99.84%      | 99.79%      | 99.81%      | 99.81%      | 99.78%                    |
| Molinate                  | Influent  | 49.43 ug/L | 33.59 ug/L | 53.29 ug/L  | 58.24 ug/L  | 48.58 ug/L  | 49.61 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | 0.1         | 0.1         |                           |
|                           | Reduction | 99.80%     | 99.70%     | 99.81%      | 99.83%      | 99.79%      | 99.80%      | 99.66%                    |
| Alpha-BHC                 | Influent  | 50.57 ug/L | 48.65 ug/L | 62.09 ug/L  | 36.53 ug/L  | 49.65 ug/L  | 51.23 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    |                           |
|                           | Reduction | 99.80%     | 99.79%     | 99.84%      | 99.73%      | 99.80%      | 99.80%      | 99.73%                    |
| Beta-BHC                  | Influent  | 45.15 ug/L | 48.26 ug/L | 40.05 ug/L  | 51.54 ug/L  | 51.42 ug/L  | 48.56 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.78%     | 99.79%     | 99.75%      | 99.81%      | 99.79%      | 99.79%      | 99.75%                    |
| Gama BHC (Lindane)        | Influent  | 46.57 ug/L | 38.31 ug/L | 45.19 ug/L  | 49.57 ug/L  | 47.23 ug/L  | 48.52 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    |                           |
|                           | Reduction | 99.79%     | 99.74%     | 99.78%      | 99.80%      | 99.79%      | 99.79%      | 99.69%                    |
| Atrazine                  | Influent  | 45.13 ug/L | 48.26 ug/L | 40.1 ug/L   | 51.54 ug/L  | 49.85 ug/L  | 48.58 ug/L  |                           |
|                           | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                           | Reduction | 99.78%     | 99.79%     | 99.75%      | 99.81%      | 99.80%      | 99.38%      | 99.38%                    |



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EPA ID # NJ01298 NJ DEP ID # 03048 IAPMO ID #102

| Contaminant Tested          |           | 10 UV       | 606 liters  | 1515 liters | 2121 liters | 2727 liters | 3030 liters | Min Efficiency throughout |
|-----------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
| Simazine                    | Influent  | 49.58 ug/L  | 48.05 ug/L  | 64.63 ug/L  | 44.7 ug/L   | 46.78 ug/L  | 49.85 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.80%      | 99.79%      | 99.85%      | 99.78%      | 99.79%      | 99.80%      | 99.74%                    |
| Metribuzin                  | Influent  | 46.82 ug/L  | 49.68 ug/L  | 60.43 ug/L  | 47.82 ug/L  | 51.24 ug/L  | 50.24 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    | 0.3 ug/L    |                           |
|                             | Reduction | 99.79%      | 99.80%      | 99.83%      | 99.79%      | 99.80%      | 99.40%      | 99.40%                    |
| Heptachlor                  | Influent  | 46.77 ug/L  | 41.83 ug/L  | 49.64 ug/L  | 65.19 ug/L  | 48.75 ug/L  | 50.24 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.79%      | 99.76%      | 99.80%      | 99.85%      | 99.79%      | 99.80%      | 99.35%                    |
| Metolachlor                 | Influent  | 73.8 ug/L   | 49.86 ug/L  | 51.67 ug/L  | 45.53 ug/L  | 48.75 ug/L  | 49.52 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.86%      | 99.80%      | 99.81%      | 99.78%      | 99.79%      | 99.80%      | 99.78%                    |
| Butylate                    | Influent  | 65.51 ug/L  | 89.98 ug/L  | 71.56 ug/L  | 109.3 ug/L  | 84.57 ug/L  | 70.45 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.85%      | 99.89%      | 99.86%      | 99.91%      | 99.88%      | 99.86%      | 99.85%                    |
| 2,4-D                       | Influent  | 49.75 ug/L  | 59.32 ug/L  | 40.02 ug/L  | 56.85 ug/L  | 51.45 ug/L  | 50.25 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.80%      | 99.83%      | 99.75%      | 99.82%      | 99.81%      | 99.80%      | 99.75%                    |
| Aldrin                      | Influent  | 56.35 ug/L  | 56.04 ug/L  | 50.77 ug/L  | 51.42 ug/L  | 58.45 ug/L  | 54.12 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.82%      | 99.82%      | 99.80%      | 99.81%      | 99.83%      | 99.82%      | 99.80%                    |
| Heptachlor Epoxide          | Influent  | 111.31 ug/L | 199.18 ug/L | 97.85 ug/L  | 172.73 ug/L | 130.25 ug/L | 125.25 ug/L |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.91%      | 99.95%      | 99.90%      | 99.94%      | 99.92%      | 99.92%      | 99.90%                    |
| Trans-Chlordane (Nonachlor) | Influent  | 34.98 ug/L  | 50.77 ug/L  | 66.03 ug/L  | 42.99 ug/L  | 44.52 ug/L  | 48.57 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1         |                           |
|                             | Reduction | 99.71%      | 99.80%      | 99.85%      | 99.77%      | 99.78%      | 99.79%      | 99.71%                    |
| Butachlor                   | Influent  | 95.18 ug/L  | 185.07 ug/L | 165.73 ug/L | 151.15 ug/L | 130.25 ug/L | 132.45 ug/L |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.89%      | 99.95%      | 99.94%      | 99.93%      | 99.92%      | 99.92%      | 99.89%                    |
| Endosulfan I                | Influent  | 52.35 ug/L  | 48.92 ug/L  | 53.25 ug/L  | 42.9 ug/L   | 48.58 ug/L  | 49.57 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1         | 0.1         |                           |
|                             | Reduction | 99.81%      | 99.80%      | 99.81%      | 99.77%      | 99.79%      | 99.80%      | 99.75%                    |
| Cis-Chlordane               | Influent  | 52.35 ug/L  | 51.23 ug/L  | 51.24 ug/L  | 52.24 ug/L  | 50.65 ug/L  | 51.45 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1         |                           |
|                             | Reduction | 99.81%      | 99.80%      | 99.80%      | 99.81%      | 99.80%      | 99.81%      | 99.80%                    |
| p,p'-DDE                    | Influent  | 35.76 ug/L  | 66.82 ug/L  | 104.25 ug/L | 71.76 ug/L  | 50.65 ug/L  | 51.45 ug/L  |                           |
|                             | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                             | Reduction | 99.72%      | 99.85%      | 99.90%      | 99.86%      | 99.80%      | 99.81%      | 99.72%                    |



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| Contaminant Tested |           | 10 UV       | 606 liters  | 1515 liters | 2121 liters | 2727 liters | 3030 liters | Min Efficiency throughout |
|--------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
| Dieldrin           | Influent  | 73.68 ug/L  | 105.07 ug/L | 85.27 ug/L  | 85.77 ug/L  | 70.45 ug/L  | 65.58 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.56 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.86%      | 99.90%      | 99.88%      | 99.35%      | 99.86%      | 99.85%      | 99.35%                    |
| Endrin             | Influent  | 59.72 ug/L  | 50.97 ug/L  | 62.56 ug/L  | 46.45 ug/L  | 49.58 ug/L  | 50.25 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.83%      | 99.80%      | 99.84%      | 99.78%      | 99.80%      | 99.80%      | 99.78%                    |
| Endosulfan II      | Influent  | 50.6 ug/L   | 53.49 ug/L  | 67.23 ug/L  | 49.8 ug/L   | 51.45 ug/L  | 50.32 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1         | 0.1         |                           |
|                    | Reduction | 99.80%      | 99.81%      | 99.85%      | 99.80%      | 99.81%      | 99.80%      | 99.80%                    |
| p,p'-DDD           | Influent  | 20.25 ug/L  | 21.56 ug/L  | 19.44 ug/L  | 19.45 ug/L  | 22.45 ug/L  | 24.85 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1         | 0.1         |                           |
|                    | Reduction | 99.51%      | 99.54%      | 99.49%      | 99.49%      | 99.55%      | 99.60%      | 99.49%                    |
| Endrin Aldehyde    | Influent  | 21.6 ug/L   | 29.9 ug/L   | 52.92 ug/L  | 30.32 ug/L  | 46.85 ug/L  | 42.85 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.54%      | 99.67%      | 99.81%      | 99.67%      | 99.79%      | 99.77%      | 99.54%                    |
| p,p'-DDT           | Influent  | 22.18 ug/L  | 33.36 ug/L  | 57.83 ug/L  | 33.22 ug/L  | 30.52 ug/L  | 31.45 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    | 0.1 ug/L    |                           |
|                    | Reduction | 99.55%      | 99.70%      | 99.83%      | 99.70%      | 99.67%      | 99.68%      | 99.55%                    |
| Endosulfan Sulfate | Influent  | 37.86 ug/L  | 53.66 ug/L  | 93.49 ug/L  | 54.26 ug/L  | 52.45 ug/L  | 53.65 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | 0.85 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    |                           |
|                    | Reduction | 99.74%      | 98.42%      | 99.89%      | 99.82%      | 99.81%      | 99.81%      | 98.42%                    |
| Endrin Ketone      | Influent  | 65.25 ug/L  | 68.53 ug/L  | 52.03 ug/L  | 51.56 ug/L  | 50.85 ug/L  | 51.98 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    |                           |
|                    | Reduction | 99.85%      | 99.85%      | 99.81%      | 99.81%      | 99.80%      | 99.81%      | 99.80%                    |
| Methoxychlor       | Influent  | 111.41 ug/L | 119.63 ug/L | 108.38 ug/L | 131.58 ug/L | 124.56 ug/L | 120.45 ug/L |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | 0.1 ug/L    | 0.1 ug/L    |                           |
|                    | Reduction | 99.91%      | 99.92%      | 99.91%      | 99.92%      | 99.92%      | 99.92%      | 99.91%                    |
| Bromacil           | Influent  | 115.53 ug/L | 113.43 ug/L | 213.44 ug/L | 130.91 ug/L | 120.58 ug/L | 121.85 ug/L |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.91%      | 99.91%      | 99.95%      | 99.92%      | 99.92%      | 99.92%      | 99.91%                    |
| Carbofuran         | Influent  | 36.49 ug/L  | 58.34 ug/L  | 59.5 ug/L   | 76.89 ug/L  | 52.85 ug/L  | 59.62 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.73%      | 99.83%      | 99.83%      | 99.87%      | 99.81%      | 99.83%      | 99.73%                    |
| Chlorneb           | Influent  | 47.55 ug/L  | 67.64 ug/L  | 81.61 ug/L  | 58.55 ug/L  | 58.95 ug/L  | 50.45 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.79%      | 99.85%      | 99.88%      | 99.83%      | 99.83%      | 99.80%      | 99.79%                    |
| Chlorthalonil      | Influent  | 75.42 ug/L  | 49.87 ug/L  | 73.9 ug/L   | 66.86 ug/L  | 52.85 ug/L  | 50.48 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.87%      | 99.80%      | 99.86%      | 99.85%      | 99.81%      | 99.80%      | 99.80%                    |



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| Contaminant Tested |           | 10 UV      | 606 liters | 1515 liters | 2121 liters | 2727 liters | 3030 liters | Min Efficiency throughout |
|--------------------|-----------|------------|------------|-------------|-------------|-------------|-------------|---------------------------|
| Chlorprophane      | Influent  | 33.89 ug/L | 19.16 ug/L | 60.22 ug/L  | 69.57 ug/L  | 53.45 ug/L  | 50.51 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.70%     | 99.48%     | 99.83%      | 99.86%      | 99.81%      | 99.80%      | 99.48%                    |
| Chlorpyrifos       | Influent  | 49.76 ug/L | 49.7 ug/L  | 54.93 ug/L  | 53.4 ug/L   | 51.52 ug/L  | 51.58 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.80%     | 99.80%     | 99.82%      | 99.81%      | 99.81%      | 99.81%      | 99.77%                    |
| Cyanazine          | Influent  | 45.71 ug/L | 41.77 ug/L | 69.26 ug/L  | 41.53 ug/L  | 51.78 ug/L  | 52.65 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.78%     | 99.76%     | 99.86%      | 99.76%      | 99.81%      | 99.81%      | 99.76%                    |
| Dichlorvos         | Influent  | 50.23 ug/L | 63.21 ug/L | 121.79 ug/L | 51.86 ug/L  | 54.03 ug/L  | 51.35 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.80%     | 99.84%     | 99.92%      | 99.81%      | 99.81%      | 99.81%      | 99.80%                    |
| Diphenamid         | Influent  | 36.83 ug/L | 49.3 ug/L  | 71.24 ug/L  | 61.16 ug/L  | 53.65 ug/L  | 52.05 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.73%     | 99.80%     | 99.86%      | 99.84%      | 99.81%      | 99.81%      | 99.73%                    |
| Disulfoton         | Influent  | 15.72 ug/L | 19.62 ug/L | 76.14 ug/L  | 26.09 ug/L  | 20.63 ug/L  | 20.51 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.36%     | 99.49%     | 99.87%      | 99.62%      | 99.52%      | 99.51%      | 99.36%                    |
| Fenamiphos         | Influent  | 56.43 ug/L | 69.56 ug/L | 70.27 ug/L  | 45.84 ug/L  | 49.85 ug/L  | 48.57 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.82%     | 99.86%     | 99.86%      | 99.78%      | 99.80%      | 99.79%      | 99.76%                    |
| Fenarimol          | Influent  | 34.48 ug/L | 53.37 ug/L | 76.16 ug/L  | 56.4 ug/L   | 50.05 ug/L  | 51.35 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.71%     | 99.81%     | 99.87%      | 99.82%      | 99.80%      | 99.81%      | 99.71%                    |
| Fluoridone         | Influent  | 72.54 ug/L | 50.25 ug/L | 87.52 ug/L  | 53.65 ug/L  | 53.62 ug/L  | 54.36 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.86%     | 99.80%     | 99.89%      | 99.81%      | 99.81%      | 99.82%      | 99.80%                    |
| Ethoprop           | Influent  | 51.54 ug/L | 71.97 ug/L | 62.67 ug/L  | 74.02 ug/L  | 60.25 ug/L  | 63.32 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   | <0.1 ug/L   |                           |
|                    | Reduction | 99.81%     | 99.86%     | 99.84%      | 99.86%      | 99.83%      | 99.84%      | 99.81%                    |
| Toxaphene          | Influent  | 36.65 ug/L | 39.89 ug/L | 73.32 ug/L  | 39.56 ug/L  | 46.36 ug/L  | 43.52 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | 0.1         | 0.1         |                           |
|                    | Reduction | 99.73%     | 99.75%     | 99.86%      | 99.75%      | 99.78%      | 99.77%      | 99.73%                    |
| PCB's              | Influent  | 10.25 ug/L | 12.42 ug/L | 10.45 ug/L  | 10.35 ug/L  | 11.98 ug/L  | 11.75 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | 0.1         | 0.1         |                           |
|                    | Reduction | 99.02%     | 99.19%     | 99.04%      | 99.03%      | 99.17%      | 99.15%      | 98.93%                    |
| Glyphosate         | Influent  | 810.2 ug/L | 803.4 ug/L | 804.8 ug/L  | 806.8 ug/L  | 803.6 ug/L  | 804.9 ug/L  |                           |
|                    | Filtered  | <0.1 ug/L  | <0.1 ug/L  | <0.1 ug/L   | <0.1 ug/L   | 0.3 ug/L    | 0.5 ug/L    |                           |
|                    | Reduction | 99.99%     | 99.99%     | 99.99%      | 99.99%      | 99.96%      | 99.94%      | 99.94%                    |



# QFT LABORATORY, LLC.

Williamstown, New Jersey

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EPA ID # NJ01298 NJ DEP ID # 03048 IAPMO ID #102

## Chlorine Test Results

| Accumulated Volume | Influent Chlorine | Effluent Chlorine | % Reduction |
|--------------------|-------------------|-------------------|-------------|
| 10 UV              | 1.90 mg/L         | <0.01             | 99.47%      |
| 303 Liters         | 2.20 mg/L         | <0.01             | 99.55%      |
| 606 liters         | 1.80 mg/L         | <0.01             | 99.44%      |
| 909 liters         | 1.90 mg/L         | <0.01             | 99.47%      |
| 1212 liters        | 1.80 mg/L         | <0.01             | 99.44%      |
| 1515 liters        | 1.80 mg/L         | <0.01             | 99.44%      |
| 1818 liters        | 1.80 mg/L         | <0.01             | 99.44%      |
| 2121 liters        | 2.00 mg/L         | <0.01             | 99.50%      |
| 2424 liters        | 2.20 mg/L         | <0.01             | 99.55%      |
| 2727 liters        | 1.80 mg/L         | <0.01             | 99.44%      |
| 3030 liters        | 1.80 mg/L         | <0.01             | 99.44%      |

### Results

The filters provided  $\geq$ 98.9% filtration efficiency of all contaminants throughout the testing.

### 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, the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards, and the ISO 17025.

**Disclaimer:** The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

*Jaime Young*

Jaime Young  
Lab Director