

*Wastewater Management Section*

# List of Registered On-site Treatment and Distribution Products

As Established in Chapter 246-272A WAC

February 2021



For information or additional copies of this report contact:

Wastewater Management Program

Physical address: 243 Israel Road SE, Tumwater, WA 98501

Mailing Address: PO Box 47824, Olympia, Washington 98504-7824

Phone: (360) 236-3330

FAX: (360) 236-2257

Webpage: [www.doh.wa.gov/wastewater](http://www.doh.wa.gov/wastewater)

Email: [wastewatermanagement@doh.wa.gov](mailto:wastewatermanagement@doh.wa.gov)

Umair A. Shah, MD, MPH

Secretary of Health

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### **NOTE:**

*The presence of a product on this list does not constitute approval of marketing, advertising, or labeling practices employed by a manufacturer, nor is it an affirmation of manufacturer claims of product performance. Registration listing does not constitute endorsement of these products by the Washington State Department of Health. Information obtained from the sources listed is the sole responsibility of the manufacturer or other provider.*

*Links to external resources are provided as a public service, and do not imply endorsement by the Washington State Department of Health.*

## **SECTION 1 – Introduction and Overview**

Chapter 246-272A WAC establishes a process for proprietary on-site product registration with requirements for testing, testing protocols, performance thresholds levels, and application processes. This registration process replaces the previous requirement of having to be on the “List of Approved Systems and Products” (Approved List). When the Washington State Department of Health (DOH or “the department”) has determined that a product meets the registration requirements that are established in the rules, the product will be placed on the “List of Registered On-site Treatment and Distribution Products” (Registered List). This document is a revision to the initial edition of the “Registered List”.

Beginning March 16, 2007, product registration became a condition of approval for use of all proprietary treatment and distribution products, and local health jurisdictions may only permit products that are on the “Registered List”.

All types of sewage technologies must either have standards for use described in WAC 246-272A or departmental Recommended Standards and Guidance (RS&G) before the local health officer may permit them. Specific conditions for the use of each system technology or product are described in the RS&G documents relevant to the proprietary device. The most recently published edition of any RS&G can be obtained from our website on: <http://www.doh.wa.gov/CommunityandEnvironment/WastewaterManagement/FormsPublications.aspx>.

Product models, rated capacities, treatment processes, treatment levels, and dimensional descriptions information are included in the tables of this document. In addition, terms used in this document, which need definition or clarification, are provided in Section 4 - Glossary of terms. This information is provided to facilitate equipment selection and promote proper application of the technology.

We welcome suggestions to improve this document. If you identify an error or have an idea about how to improve the usefulness of this document, feel free to contact staff in the Wastewater Management Program at the Washington State Department of Health, Office of Environmental Health and Safety at (360) 236-3330.

## Overview

Treatment components or distribution technologies, both proprietary and public domain (other than a sewage tank, or a gravel-filled drainfield fed either by a gravity or pressure distribution network), must be on the Department's "Registered List" before they may be permitted by the local health officer. Prior to placement on this list, the following must occur:

1. For all treatment components and distribution technologies other than sewage tanks, the Department of Health, with the assistance of the Technical Advisory Group (TAG), may develop guidance in the form of Recommended Standards and Guidance (RS&G) for a particular type of technology. Each RS&G may include application, design, installation, operation, monitoring and maintenance, and performance expectation information.
2. For proprietary treatment and distribution products, the manufacturer has submitted an application for registration containing the information required by WAC 246-272A. For proprietary treatment products, this information shall verify that the performance of the proprietary treatment product was tested according to the appropriate testing protocol and include the results of the testing.
3. The department will verify the information on the application and register the product if all the required information and data are included in the application.

## Categories of Treatment Product and Treatment Levels

This document registers the category and treatment level that is met by a treatment product. Applicable terms to help understand this listing include:

**Category 1 treatment product** – a treatment component designed to treat sewage typical of a residential source when septic tank effluent is anticipated to be equal to or less than Treatment Level E (*See Table 1*).

**Category 2 treatment product** – a treatment component designed to treat high-strength sewage when septic tank effluent is anticipated to be greater than Treatment Level E. Examples of sources of high-strength sewage usually include restaurants, grocery stores, mini-marts, group homes, medical clinics, or residences.

**Category 3 treatment product** – a black water (human wastes) component of residential sewage. The primary examples are composting and incinerating toilets.

**Treatment Level** – one of six levels (A, B, C, D, E, & N) noted in Table 1 and used in WAC 246-272A to:

- (a) Identify treatment component performance demonstrated requirements specified in WAC 246-272A-0110, and

- (b) Match site conditions of vertical separation and soil type with treatment components. Treatment levels used in WAC 246-272A are not intended to be applied as field compliance standards. Their intended use is for establishing treatment product performance in a product testing setting under established protocols by qualified testing entities.

**Table 1. Treatment Levels**

| Level    | Parameters                  |               |               |                  |              |
|----------|-----------------------------|---------------|---------------|------------------|--------------|
|          | CBOD <sub>5</sub><br>(mg/L) | TSS<br>(mg/L) | O&G<br>(mg/L) | FC<br>(#/100 ml) | TN<br>(mg/L) |
| <b>A</b> | 10                          | 10            | ----          | 200              | ----         |
| <b>B</b> | 15                          | 15            | ----          | 1,000            | ----         |
| <b>C</b> | 25                          | 30            | ----          | 50,000           | ----         |
| <b>D</b> | 25                          | 30            | ----          | ----             | ----         |
| <b>E</b> | 125                         | 80            | 20            | ----             | ----         |
| <b>N</b> | ----                        | ----          | ----          | ----             | 20           |

**Note:**

Values for Levels A - D are maximum 30-day values (averages for CBOD<sub>5</sub>, TSS, and geometric mean for FC.) All 30-day averages throughout the test period must meet these values in order to be registered at these levels. Values for Levels E and N are derived from full test averages.

## **SECTION 2 – List of Manufacturers of Registered Proprietary On-site Products**

This section presents the current list of manufacturers who have submitted proprietary treatment and/or proprietary distribution products for DOH review and were found to meet the registration requirements in WAC 246-272A. This list notes the manufacturer, the manufacturer's contact information, products' names/models that have been reviewed and registered by DOH, and product treatment processes or type. To determine what the specific products are registered for, see Section 3.

If a certain manufacturer or product is not listed, or if a listed manufacturer's specific model number is not included on the list, the product IS NOT APPROVED for use in Washington State and may not be permitted by the local health officer.

### **Disclaimer**

*The manufacturers' contact information is presented here for information purposes only. Product registration and listing does not constitute departmental approval of marketing, advertising or labeling practices employed by a manufacturer, nor does it constitute an endorsement of these products, nor a preference among the manufacturers.*

List of Registered On-site Treatment and Distribution Products  
 Effective Date: February 2021

**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information   | Product Name/Model   | Rated Capacity (gpd)  | Treatment Process  |
|--|--|---|--|
| <p>Advanced Septic Treatment Systems, Inc.<br/>                     8000 Parker Road<br/>                     Sedro Woolley WA 98284</p> <p>Tel: (360) 856-0550<br/>                     Fax: (360) 856-0551<br/>                     Email: <a href="mailto:deniseenberg@hotmail.com">deniseenberg@hotmail.com</a><br/>                     Web: <a href="http://www.advancedsepticreatmentsystems.com">www.advancedsepticreatmentsystems.com</a></p> | <p>TRD-1000-500 with UV disinfection unit<br/>                     TRD-1000-600 with UV disinfection unit<br/>                     TRD-1000-700 with UV disinfection unit<br/>                     TRD-1000-800 with UV disinfection unit<br/>                     TRD-1000-900 with UV disinfection unit<br/>                     TRD-1000-1000 with UV disinfection unit</p>   | <p>500<br/>                     600<br/>                     700<br/>                     800<br/>                     900<br/>                     1000</p>  | <p>Sequencing Batch<br/>                     Reactor with Filtration<br/>                     Process &amp; UV<br/>                     Disinfection Treatment<br/>                     Sequence</p> |
| <p>Anua<br/>                     PO Box 77457<br/>                     Greensboro NC 27417</p> <p>Tel: (800) 787-2356<br/>                     Tel: (336) 547-9338<br/>                     Fax: (336) 547-8559<br/>                     Web: <a href="http://www.anuainternational.com">www.anuainternational.com</a></p>   | <p>Puraflo Peat Fiber Biofilter Wastewater Treatment System</p> <p>P150N 3A<br/>                     P150N 3B<br/>                     P150N 4A<br/>                     P150N 4B<br/>                     P150N 5A<br/>                     P150N 5B<br/>                     P150N 6A<br/>                     P150N 6B<br/>                     P150N 7B<br/>                     P150N 8B<br/>                     P150N 9B<br/>                     P150N 10B</p> <p>Type "A" models have weep holes.<br/>                     Type "B" models are closed bottomed.</p> | <p>450<br/>                     450<br/>                     600<br/>                     600<br/>                     750<br/>                     750<br/>                     900<br/>                     900<br/>                     1050<br/>                     1200<br/>                     1350<br/>                     1500</p> | <p>Attached Growth Single-pass Packed Bed Filter</p>   |

List of Registered On-site Treatment and Distribution Products

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information   | Product Name/Model  | Rated Capacity (gpd)   | Treatment Process                      |
|--|---|--|--|
| <p>Bio-Microbics, Inc.<br/>16002 West 110<sup>th</sup> Street<br/>Lenexa, KS 66219</p> <p>Tel: (800) 753-3278<br/>Tel: (913) 422-0707<br/>Fax: (913) 422-0808<br/>E-mail: <a href="mailto:onsite@biomicrobics.com">onsite@biomicrobics.com</a><br/>Web: <a href="http://www.biomicrobics.com">www.biomicrobics.com</a></p> | <p>FAST Wastewater Treatment System*</p> <p>RetroFAST 0.375<br/>MicroFAST 0.5<br/>MicroFAST 0.625**<br/>MicroFAST 0.75<br/>MicroFAST 0.9<br/>MicroFAST 1.5<br/>MicroFAST 3.0**<br/>MicroFAST 4.5**<br/>MicroFAST 9.0**</p> <p>*These models are also listed in Category 2.<br/>**For Total Nitrogen reduction supplemental BOD may be applied in the form of MicroC™ when the influent BOD:TKN ratio is less than 4:1. For Total Nitrogen applications with or without the addition of MicroC™ the system design will require a review by Bio-Microbics, Inc.</p> | <p>375<br/>500<br/>625<br/>750<br/>900<br/>1500<br/>3000<br/>4500<br/>9000</p> | <p>Attached &amp; Suspended Growth</p> |



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| Manufacturer/Contact Information   | Product Name/Model   | Rated Capacity (gpd)                                     | Treatment Process  |
|------------------------------------|--|--|--|
| Bio-Microbics, Inc.<br>(continued) | FAST, Wastewater Treatment System with the Salcor 3G UV disinfection unit*<br>MicroFAST 0.5 with the Salcor 3G<br>MicroFAST 0.625 with the Salcor 3G – 2**<br>MicroFAST 0.75 with the Salcor 3G - 2<br>MicroFAST 0.9 with the Salcor 3G - 2<br>MicroFAST 1.5 with the Salcor 3G - 3<br>MicroFAST 3.0 with the Salcor 3G – 6**<br>MicroFAST 4.5 with the Salcor 3G – 7**<br>MicroFAST 9.0 with the Salcor 3G – 7**<br><br>*MicroFAST treated effluents are split to multiple Salcor 3G units proportionally so that each UV unit receives no more than 500 gpd.<br><br>**For Total Nitrogen reduction supplemental BOD may be applied in the form of MicroC™ when the influent BOD:TKN ratio is less than 4:1. In model applications with or without the addition of MicroC™ the system design will require a review by Bio-Microbics, Inc. | 500<br>625<br>750<br>900<br>1500<br>3000<br>4500<br>9000 | Attached & Suspended Growth & UV Disinfection Treatment Sequence |
|                                    | BioBarrier MBR, Wastewater Treatment System<br>MBR 0.5<br>MBR 1.0<br>MBR 1.5   | 500<br>1000<br>1500                                      | Membrane Bioreactor  |
|                                    | BioBarrier MBR, Wastewater Treatment System<br>MBR 0.5-N<br>MBR 1.0-N<br>MBR 1.5-N<br><br>Requires a three compartment tank w/ a mixing pump in the middle chamber.  | 500<br>1000<br>1500                                      | Membrane Bioreactor with Nitrogen Reduction                      |

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| Manufacturer/Contact Information  | Product Name/Model  | Rated Capacity (gpd)              | Treatment Process                                      |
|---|---|-----------------------------------|--|
| Busse Green Technologies, Inc<br>1101 S Euclid Avenue<br>Oak Park, IL 60304<br><br>Tel: (708) 204-3504<br>E-mail: <a href="mailto:info@busse-gt.com">info@busse-gt.com</a><br>Web: <a href="http://www.busse-gt.com">www.busse-gt.com</a><br><a href="http://www.bussegt.com">www.bussegt.com</a> | Busse Wastewater Treatment System<br><br>GT-400<br>GT-600<br>GT-800<br>GT-1000<br>GT-1200<br><br>*protection from freezing is required  | 400<br>600<br>800<br>1000<br>1200 | Membrane Bioreactor                                    |
| Clarus Environmental –<br>Zoeller Family of Water Solutions<br>3649 Cane Run Road<br>Louisville, KY 62025<br><br>Tel: (800) 928-7867<br>E-mail: <a href="mailto:wesc@zoeller.com">wesc@zoeller.com</a><br>Web: <a href="http://www.clarusenvironmental.com">www.clarusenvironmental.com</a>       | Fusion Wastewater Treatment System<br>ZF450<br>ZF600<br>ZF800   | 450<br>600<br>800                 | Attached & Suspended Growth                            |
| Clearstream Wastewater Systems, Inc.<br>PO Box 7568<br>Beaumont, TX 77712-1500<br><br>Tel: (409) 755-1500<br>Email: <a href="mailto:governmentaffairs@clearstreamsystems.com">governmentaffairs@clearstreamsystems.com</a>  | Clearstream Aerobic Treatment Units<br>500D/DC, 500DS/DSC, 500DST, 500DT, 500DC2,<br>500DC2P, 500DC3-500, 500DC3-7500<br>600D/DC, 600DT, 600DC2, 600DC3<br>1000DD, 1000DCD, 1000DTD | 500<br>500<br>600<br>1000         | Extended aeration mode of the Activated Sludge process |

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| Manufacturer/Contact Information   | Product Name/Model   | Rated Capacity (gpd)      | Treatment Process   |
|--|--|---------------------------|---|
| Web: <a href="http://www.clearstreamsystems.com">www.clearstreamsystems.com</a><br><br>Clearstream Wastewater Systems, Inc.<br>(continued) | Clearstream 500G Series Aerobic Treatment Units with CS 120 UV disinfection unit<br>500G/GC, 500GS/GSC., 500GST, 500GT, 500GC2, 500GC2P, 500GC3-500, 500GC3-750  | 500<br>500                | Extended aeration mode of the Activated Sludge process and UV Disinfection Treatment Sequence |
|  | Clearstream Aerobic Treatment Units<br>500G/GC, 500GS/GSC, 500GST, 500GT, 500GC2, 500GC2P, 500GC3-500, 500GC3-750<br>600G/GC, 600GT, 600GC2, 600GC3<br>1000GD, 1000GCD, 1000GTD                        | 500<br>500<br>600<br>1000 | Extended aeration mode of the Activated Sludge process  |
|  | Clearstream Aerobic Treatment Units<br>500DA/DAC, 500DAS/DASC, 500DAST, 500DAT, 500DAC2, 500DAC3-500, 500DAC3-750, 500DAU<br>600DA/DAC, 600DAT, 600DAC2, 600DAC3, 600DAU<br>800DA/DAC, 800DAT, 800DAC2 | 500<br>600<br>800         | Extended aeration mode of the Activated Sludge process  |
| Consolidated Treatment System, Inc.<br>1501 Commerce Center Drive<br>Franklin, OH 45005<br><br>Tel: (937) 746-2727                         | Enviro-Guard Wastewater Treatment System<br>ENV-0.75 with the Salcor 3G UV disinfection unit   | 750                       | Suspended Growth with Filtration Process & UV Disinfection Treatment Sequence                 |

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| Manufacturer/Contact Information   | Product Name/Model   | Rated Capacity (gpd)                     | Treatment Process                                     |
|--|--|--|---|
| Fax: (937) 746-1446<br>E-mail: <a href="mailto:jeff@consolidatedtreatment.com">jeff@consolidatedtreatment.com</a><br>Web: <a href="http://www.consolidatedtreatment.com">www.consolidatedtreatment.com</a><br><br>Consolidated Treatment System, Inc.<br>(continued)   | Multi-Flo Wastewater Treatment System<br>FTB-0.5<br>FTB-0.6<br>FTB-0.75<br>FTB-1.0<br>FTB-1.5  | 500<br>600<br>750<br>1000<br>1500        | Suspended Growth with Filtration Process              |
|  | Nayadic Wastewater Treatment System<br>M-6A-F/M-6<br>M-6A-C/M-6AC-F<br>M-8A-F/M-8A<br>M-1050-F/M-1050A<br>M-1200-F/M-1200A<br>M-2000-F/M-2000A | 500<br>500<br>600<br>800<br>1000<br>1500 | Suspended Growth                                      |
| Delta Treatment Systems, LLC<br>A wholly owned subsidiary of Infiltrator Water Technologies, LLC<br><br>4 Business Park Road / PO Box 768<br>Old Saybrook, CT 06475<br><br>Tel: (800) 221-4436<br>Fax: (800) 577-7000<br>E-mail: <a href="mailto:ssirico@infiltratorwater.com">ssirico@infiltratorwater.com</a><br>Web: <a href="http://www.deltatreatment.com">www.deltatreatment.com</a> | Whitewater DF Series Aerobic Treatment Units<br>DF75<br>DF100<br>DF100A<br>DF150   | 750<br>1000<br>1000<br>1500              | Suspended Growth                                      |
|  | Whitewater DF Series Aerobic Treatment Units with the Salcor 3G UV disinfection unit<br>DF50 with Salcor 3G<br>DF60 with Salcor 3G             | 500<br>600                               | Suspended Growth & UV Disinfection Treatment Sequence |

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| Manufacturer/Contact Information       | Product Name/Model  | Rated Capacity (gpd)   | Treatment Process  |
|--|---|--|--|
| Delta Treatment Systems<br>(continued) | ECOPOD Fixed Film Wastewater Treatment System<br>E50<br>E60   | 500<br>600   | Attached Growth  |
|  | ECOPOD Fixed Film Wastewater Treatment System<br>with the Salcor 3G UV disinfection unit<br>E50 with Salcor 3G<br>E60 with Salcor 3G  | 500<br>600   | Attached Growth & UV<br>Disinfection Treatment<br>Sequence |
|  | ECOPOD N Series Wastewater Treatment System<br>E50NCA<br>E50-N-IM1060<br>E60NCA<br>E60-N-IM1060<br>E75NCA<br>E75-N-IM1060<br>E100NCA<br>E150NCA<br>E200-NFF<br>E250-NFF<br>E300-NFF | 500<br>500<br>600<br>600<br>750<br>750<br>1000<br>1500<br>2000<br>2500<br>3000 | Attached Growth  |

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|---|---|--|--|
|   | ECOPOD N Series Wastewater Treatment System with the Salcor 3G UV disinfection unit<br>E50NCA<br>E50-N-IM1060<br>E60NCA<br>E60-N-IM1060<br>E75NCA<br>E75-N-IM1060<br>E100NCA<br>E150NCA<br>E200-NFF<br>E250-NFF<br>E300-NFF | 500<br>500<br>600<br>600<br>750<br>750<br>1000<br>1500<br>2000<br>2500<br>3000 | Attached Growth and UV Disinfection Treatment Sequence                   |
| Ecological Tanks, Inc<br>2247 Highway 151 North<br>Downsville, LA 71234<br><br>Tel: (800) 277-8179<br>Tel: (318) 644-0397<br>Fax: (618) 644-7257<br>E-mail: <a href="mailto:aquasafe@bayou.com">aquasafe@bayou.com</a><br>Web: <a href="http://www.etiaquasafe.com">www.etiaquasafe.com</a> | Aqua Safe Series<br>AS500<br>AS600<br>AS750<br>AS1000<br>AS1500<br><br>AS500L<br>AS600L<br>AS800L<br>AS1100L<br><br>Aqua Safe<br>AS600 + 4NR  | 500<br>600<br>750<br>1000<br>1500<br><br>500<br>600<br>800<br>1100<br><br>600  | Suspended Growth<br><br><br><br><br><br><br><br><br><br>Suspended Growth |

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| Manufacturer/Contact Information  | Product Name/Model   | Rated Capacity (gpd)                             | Treatment Process                                     |
|---|--|--|---|
|   | Aqua Safe<br>AS600 + 4NR w/ Disinfector UV and Salcor 3G UV                        | 600  | Suspended Growth & UV Disinfection Treatment Sequence |
|   | Aqua Aire Series<br>AA500<br>AA600<br>AA750<br>AA800<br>AA1000<br>AA1200<br>AA1500 | 500<br>600<br>750<br>800<br>1000<br>1200<br>1500 | Suspended Growth                                      |
| Eljen Corporation<br>90 Meadow Rd<br>Windsor, CT 06095<br><br>Tel: (800) 444-1359<br>Fax: (860) 610-0427<br>E-mail: <a href="mailto:jking@eljen.com">jking@eljen.com</a><br>Web: <a href="http://www.eljen.com">www.eljen.com</a> | GSF A42<br>TL-C ( <i>pressure</i> )  | 450  | Single pass Attached Growth Geotextile Sand Filter    |
| Enviro-Flo, Inc.<br>151 Custom Drive<br>Flowood, MS 39232   | NuWater**<br>Model B-500 with UV disinfection unit                                 | 500  | Suspended Growth & UV Disinfection Treatment Sequence |

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| Manufacturer/Contact Information  | Product Name/Model   | Rated Capacity (gpd)             | Treatment Process   |
|---|--|----------------------------------|---|
| Tel: (877) 836-8476<br>Tel: (601) 939-2948<br>Fax: (601) 939-3526<br>E-mail: <a href="mailto:derrick@enviro-flo.net">derrick@enviro-flo.net</a><br>Web: <a href="http://www.enviro-flo.com">www.enviro-flo.com</a><br><br><b>**NOTE: This product was formerly named Bio-Robix.</b> | Enviro-Flo Wastewater Treatment System<br>E-500<br>E-550<br>E-600<br>E-750<br>E-1000 | 500<br>550<br>600<br>750<br>1000 | Suspended Growth  |
|   | NuWater**<br>BNR 500<br>BNR 600  | 500<br>600                       | Suspended Growth  |
|   | NuWater**<br>BNR 500 with Salcor 3G UV<br>BNR 600 with Salcor 3G UV                  | 500<br>600                       | Suspended Growth & UV Disinfection Treatment Sequence               |
| Fuji Clean, USA, LLC<br>41-2 Greenwood Road<br>Brunswick, ME 04011<br>Tel: (207) 406-2927<br>Fax: (207) 406-2929<br>E-mail: <a href="mailto:info@fujicleanusa.com">info@fujicleanusa.com</a><br>Web: <a href="http://www.fujicleanusa.com">www.fujicleanusa.com</a>                 | CEN5 with Salcor 3G UV<br>CEN7 with Salcor 3G UV<br>CEN10 with Salcor 3G UV          | 450<br>630<br>900                | Attached & Suspended Growth with UV Disinfection Treatment Sequence |



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| Manufacturer/Contact Information  | Product Name/Model   | Rated Capacity (gpd)               | Treatment Process       |
|---|--|------------------------------------|-------------------------|
| Glendon BioFilter Technologies, Inc.<br>PO Box 2585<br>Gig Harbor, WA 98335<br><br>Tel: (206) 819-8803<br>E-mail: <a href="mailto:paulv@glendon.com">paulv@glendon.com</a><br>Web: <a href="http://www.glendon.com">www.glendon.com</a> | Glendon BioFilter Treatment System<br>M31*<br><br>*Multiple units, in the same or a variety of sizes, may be used in parallel to accomplish daily design flows to 3,500 gpd. | 120 (per each prefabricated basin) | Upflow Media Filtration |
|   | Glendon BioFilter Treatment System<br>M32*<br><br>*Multiple units, in the same or a variety of sizes, may be used in parallel to accomplish daily design flows to 3,500 gpd. | 120 (per each prefabricated basin) | Upflow Media Filtration |

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|   |  |  |  |
|---|--|--|--|
| <p>Lowridge Onsite Technologies, LLC<br/>                 PO Box 1179<br/>                 Lake Stevens, WA 98258</p> <p>Tel: (877) 476-8823<br/>                 E-mail: <a href="mailto:info@lowridgetech.com">info@lowridgetech.com</a><br/>                 Web: <a href="http://www.lowridgetech.com">www.lowridgetech.com</a></p> | <p>LOWeFLOW™ System with the Salcor 3G UV disinfection unit</p>  | <p>500<br/>600<br/>1000<br/>1500<br/>2000<br/>2500<br/>3000<br/>3500</p>                 | <p>Attached Growth Multi-pass Packed Bed Filter</p>  |
|   | <p>LOT-LF-500 – 1 UV Unit<br/>                 LOT-LF-600 – 2 UV Units<br/>                 LOT-LF-1000 – 2 UV Units<br/>                 LOT-LF-1500 – 3 UV Units<br/>                 LOT-LF-2000 – 4 UV Units<br/>                 LOT-LF-2500 – 5 UV Units<br/>                 LOT-LF-3000 – 6 UV Units<br/>                 LOT-LF-3500 – 7 UV Units</p> |  |  |
|   | <p>OSCAR-LOWeFLOW™ System</p>  |  |  |
|   | <p>OSCAR™ only used in conjunction with LOWeFLOW™</p>  |  |  |
|   | <p>OS-240-5<br/>                 OS-300-5<br/>                 OS-300-7<br/>                 OS-360-5<br/>                 OS-360-7<br/>                 OS-450-5<br/>                 OS-480-5<br/>                 OS-480-7<br/>                 OS-600-5<br/>                 OS-600-7</p>  | <p>240<br/>360<br/>480<br/>600<br/>1000<br/>1500<br/>2000<br/>2500<br/>3000<br/>3500</p> | <p>Attached Growth Multipass Packed Bed Filter and Attached Growth Single-pass Sand Filter Treatment Sequence</p>  |
|   | <p>OSCAR-II Series</p>   |  |  |
|   | <p>OSII-240<br/>                 OSII-300<br/>                 OSII-360<br/>                 OSII-450<br/>                 OSII-480<br/>                 OSII-600</p>  | <p>240<br/>300<br/>360<br/>450<br/>480<br/>600</p>                                       | <p>Treatment Vessel to Dosing Tank w/ headworks dosed into OSCAR Coils on 6" ASTM C-33 sand Treatment Sequence</p> |
|   | <p>*Multiple OSCAR coil units, in the same or a combination of sizes, may be used in series and/or</p>   |  |  |

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information                 | Product Name/Model  | Rated Capacity (gpd)                   | Treatment Process   |
|--|---|--|---|
| Lowridge Onsite Technologies, LLC<br>(continued) | parallel to accomplish daily design flows up to 3,500 gpd. Contact the manufacturer for specific design details.<br><br>OSCAR-III Series<br>OSIII – 240<br>OSIII – 300<br>OSIII – 360<br>OSIII – 450<br>OSIII – 480<br>OSIII – 600  | 240<br>300<br>360<br>450<br>480        | Treatment Vessel to Dosing Tank w/ headworks dosed into OSCAR Coils on 12” ASTM C-33 sand Treatment Sequence  |
|  | *Multiple OSCAR coil units, in the same or a combination of sizes, may be used in series and/or parallel to accomplish daily design flows up to 3,500 gpd. Contact the manufacturer for specific design details.<br><br>OSCAR-in-a-Box Series<br>OSB - 240<br>OSB - 300<br>OSB - 360<br>OSB - 450<br>OSB - 480<br>OSB - 600 | 240<br>300<br>360<br>450<br>480<br>600 | Treatment Vessel to Dosing Tank w/ headworks dosed into OSCAR Coils on 12” ASTM C-33 sand inside a PVC-lined containment vessel with underdrain-effluent collection to dispersal component. |

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information  | Product Name/Model   | Rated Capacity (gpd)  | Treatment Process                               |
|---|--|---|---|
| <p>Norweco, Inc.<br/>220 Republic Street<br/>Norwalk, OH 44857-1196</p> <p>Tel: (419) 668-4471<br/>Fax: (419) 663-5440<br/>E-mail: <a href="mailto:customerservice@norweco.com">customerservice@norweco.com</a><br/>Web: <a href="http://www.norweco.com">www.norweco.com</a></p> | <p>Singulair Wastewater Treatment System (960 series)</p> <p>Singulair 960-500<br/>Singulair 960-500<br/>Singulair 960-750<br/>Singulair 960-750<br/>Singulair 960-1000<br/>Singulair 960-1250<br/>Singulair 960-1500<br/>Singulair 960LP-500<br/>Singulair 960LP-500<br/>Singulair 960LP-1000<br/>Singulair 960-OP-500<br/>Singulair 960-OP-500<br/>Singulair 960-OP-1000</p> | <p>500<br/>600<br/>750<br/>800<br/>1000<br/>1250<br/>1500<br/>500<br/>600<br/>1000<br/>500<br/>600<br/>1000</p> | <p>Suspended Growth with Filtration Process</p> |
|   | <p>Singulair Wastewater Treatment System (TNT series)</p> <p>Singulair TNT-500<br/>Singulair TNT-500<br/>Singulair TNT-750<br/>Singulair TNT-750<br/>Singulair TNT-1000<br/>Singulair TNT-1250<br/>Singulair TNT-1500<br/>Singulair TNT-OP-500<br/>Singulair TNT-OP-500<br/>Singulair TNT-OP-1000</p>  | <p>500<br/>600<br/>750<br/>800<br/>1000<br/>1250<br/>1500<br/>500<br/>600<br/>1000</p>                          | <p>Suspended Growth with Filtration Process</p> |

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information | Product Name/Model  | Rated Capacity (gpd)   | Treatment Process  |
|----------------------------------|---|--|--|
| Norweco, Inc.<br>(continued)     | Singulair Wastewater Treatment System TNT series with the Norweco AT1500 UV Unit<br><br>Singulair TNT-500 – 1 UV Unit<br>Singulair TNT-500 – 2 UV Units<br>Singulair TNT-750 – 2 UV Units<br>Singulair TNT-750 – 2 UV Units<br>Singulair TNT-1000 – 2 UV Units<br>Singulair TNT-1250 – 3 UV Units<br>Singulair TNT-1500 – 3 UV Units<br>Singulair TNT-OP-500 – 1 UV Unit<br>Singulair TNT-OP-500 – 2 UV Units<br>Singulair TNT-OP-1000 – 2 UV Units | <br><br>500<br>600<br>750<br>800<br>1000<br>1250<br>1500<br>500<br>600<br>1000 | <br><br>Suspended Growth with Filtration Process & UV Disinfection Treatment Sequenc   |
|                                  | Hydro-Kinetic 600 FEU with Norweco AT 1500 UV disinfection unit   | 500  | Activated Sludge, Anaerobic, Anoxic, Extended Aeration, Gravity Settling, and Filtration with UV Disinfection Treatment Sequence |

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information  | Product Name/Model  | Rated Capacity (gpd)                                      | Treatment Process   |
|---|---|---|---|
| Orenco Systems Inc.<br>814 Airway Avenue<br>Sutherlin, Oregon 97479<br><br>Tel: (800) 230-9580<br>Tel: (541) 459-4449<br>Fax: (541) 459-2884<br>E-mail: <a href="mailto:jsoulia@orencosystems.com">jsoulia@orencosystems.com</a><br>Web: <a href="http://www.orencosystems.com">www.orencosystems.com</a> | AdvanTex® Wastewater Treatment System<br><br>AX20RT (2 or 3 compartment recirculating tank)<br>AX20<br>AX25RT<br>*AX20 – 2<br>*AX20 – 3<br>*AX20 – 4<br>*AX100<br>*AX100 – 2  | 500<br>500<br>625<br>1000<br>1500<br>2000<br>2500<br>3500 | Attached Growth<br>Multipass Packed Bed<br>Filter   |
|   | AdvanTex® AX Series with Orenco UV disinfection unit<br><br>AX20RT (2 or 3 compartment recirculating tank)<br>AX20 with Orenco UV unit<br>AX25RT with Orenco UV unit<br>*AX20 – 2 with Orenco UV units - 2<br>*AX20 – 3 with Orenco UV units - 3<br>*AX20 – 4 with Orenco UV units - 4<br>*AX100 with Orenco UV units - 5<br>*AX100 – 2 with Orenco UV units - 7<br><br>*System applications greater than 6 bedrooms and applications other than single family residential will require a design review by Orenco Systems, Inc. | 500<br>500<br>625<br>1000<br>1500<br>2000<br>2500<br>3500 | Attached Growth<br>Multipass Packed Bed<br>Filter & UV Disinfection<br>Treatment Sequence |

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information  | Product Name/Model  | Rated Capacity (gpd)                                       | Treatment Process   |
|---|---|--|---|
| Orenco Systems Inc.<br>(continued)  | AdvanTex® AX-MAX Series (with discharge pump assembly)<br><br>AX-MAX075-14<br>AX-MAX125-21<br>AX-MAX175-28<br><br>AdvanTex AX-MAX Series with Orenco UV disinfection units (without discharge pump assembly)<br><br>AX-MAX075-14 with Orenco UV units - 4<br>AX-MAX125-21 with Orenco UV units - 7<br>AX-MAX175-28 with Orenco UV units - 7 | 1,875<br>3,125<br>3,500<br><br><br>1,875<br>3,125<br>3,500 | Attached Growth Multipass Packed Bed Filter<br><br><br><br>Attached Growth Multipass Packed Bed Filter & UV Disinfection Treatment Sequence |
| SeptiTech<br>A subsidiary of Bio-Microbics, Inc<br>69 Holland Street<br>Lewiston, ME 04240<br><br>Tel: (207) 333-6940<br>Fax: (207) 333-6944<br>E-mail: <a href="mailto:info@septitech.com">info@septitech.com</a><br>Web: <a href="http://www.septitech.com">www.septitech.com</a> | SeptiTech Treatment System<br>STAAR 0.5<br>STAAR 0.75<br>STAAR 1.0<br>STAAR 1.2<br>STAAR 1.5  | 440<br>660<br>880<br>1200<br>1500                          | Trickling Filter  |

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**Manufacturers of Registered Category 1 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information   | Product Name/Model  | Rated Capacity (gpd)              | Treatment Process                                 |
|--|---|-----------------------------------|---|
| SeptiTech<br>(continued)   | SeptiTech Treatment System with nitrogen reduction<br>STAAR 0.5D<br>STAAR 0.75D<br>STAAR 1.0D<br>STAAR 1.2D<br>STAAR 1.5D | 440<br>660<br>880<br>1200<br>1500 | Trickling Filter                                  |
| Spec Industries, Inc<br>3078 Tarpon Drive #201<br>Las Vegas, NV 89120<br><br>Tel: (702) 558-4444<br>Fax: (702) 558-4563<br>E-mail: <a href="mailto:RogerO@specind.biz">RogerO@specind.biz</a><br>Web: <a href="http://www.specind.biz">www.specind.biz</a> | Alternating Intermittent Recirculating Reactor<br>AIRR 714  | 490                               | Attached growth<br>Multipass Packed Bed<br>Filter |



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**Manufacturers of Registered Category 2 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information  | Product Name/Model   | Rated Capacity (gpd)                                       | Treatment Process              |
|---|--|--|--------------------------------|
| Aqua Test Inc.<br>PO Box 1116<br>Black Diamond, WA 98010<br><br>Tel: 1-800-221-3159<br>Tel: (425) 432-9360<br>Fax: (425) 413-9431<br>E-mail: office@aquatestinc.com<br>Web: www.aquatestinc.com                         | NIBBLER Wastewater Treatment Process<br>NIBBLER SBP & NIBBLER CBP  | 200 (when O&G is ≤50 mg/L)<br>137.5 (when O&G is >50 mg/L) | Attached &<br>Suspended Growth |
|   | NIBBLER Jr.  | 500  | Attached &<br>Suspended Growth |
| Bio-Microbics, Inc.<br>16002 West 110 <sup>th</sup> Street<br>Lenexa, KS 66219<br><br>Tel: (800) 753-3278<br>Tel: (913) 422-0707<br>Fax: (913) 422-0808<br>E-mail: onsite@biomicrobics.com<br>Web: www.biomicrobics.com | FAST Wastewater Treatment System<br>MicroFAST 0.5<br>MicroFAST 0.75<br>MicroFAST 0.9<br>MicroFAST 1.5<br>MicroFAST 3.0<br>MicroFAST 4.5<br>MicroFAST 9.0<br><br>These models are also used in Category 1. Models designed to treat high-strength sewage with the O&G influent level to the MicroFAST < 50 mg/L. Models may be used in non-single family residential designs when the design is reviewed by Bio-Microbics Inc. and documentation of the review is provided. | 500<br>750<br>900<br>1500<br>3000<br>4500<br>9000          | Attached &<br>Suspended Growth |

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**Manufacturers of Registered Category 3 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information   | Product Name/Model  | Rated Capacity<br>(persons or uses/day)  | Treatment Process   |
|--|---|--|---------------------|
| Clivus Multrum, Inc.<br>15 Union Street<br>Lawrence, MA 01840<br><br>Tel: (800) 425-4887<br>Fax: (978) 557-9658<br>E-mail: brian@clivusmultrum.com<br>Web: www.clivusmultrum.com                           | Clivus Multrum Composting Toilet<br>M1<br>M2<br>M3<br>M10<br>M12<br>M15<br>M18<br>M22<br>M28<br>M32<br>M35<br>M54ADA<br>Outback | 10-uses/day<br>15 uses/day<br>40 uses/day<br>60 uses/day<br>80 uses/day<br>100 uses/day<br>120 uses/day<br>80 uses/day<br>120 uses/day<br>110 uses/day<br>180 uses/day<br>60 uses/day<br>20 uses/day | Composting Toilet   |
| Research Products / Blankenship<br>2639 Andjon Drive<br>Dallas, TX 75220<br><br>Tel: (800) 527-5551<br>Tel: (214) 358-4238<br>Fax: (214) 350-7919<br>E-mail: sales@incinolet.com<br>Web: www.incinolet.com | Incinolet Electric Incinerating Toilet<br>CF<br>TR<br>WB  | 4-person<br>8-person<br>4/8-person   | Incinerating Toilet |

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**Manufacturers of Registered Category 3 Proprietary On-site *Treatment* Products**

| Manufacturer/Contact Information   | Product Name/Model  | Rated Capacity<br>(persons or uses/day)  | Treatment Process |
|--|---|--|-------------------|
| Sun-Mar Corporation<br>5370 South Service Road<br>Burlington, Ontario, Canada<br>L7L 5L1<br><br>Tel: (800) 461-2461<br>Tel: (905) 332-1314<br>Fax: (905) 332-1315<br>E-mail: frasersneddon@sun-mar.com<br>Web: www.sun-mar.com | Sun-Mar Composting Toilet<br>Excel<br>Centrex 2000 A/F<br>Centrex 2000 A/F AC/DC<br>Centrex 3000 A/F<br>Centrex 3000 A/F AC/DC<br>Compact<br>Spacesaver<br>Sun-Mar Mobile<br>Excel NE | 3-person residential<br>4-person residential<br>3-person residential<br>5-person residential<br>4-person-residential<br>1-person residential<br>1-person residential<br>1-person residential<br>2-person residential | Composting Toilet |

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**Manufacturers of Registered Proprietary On-site *Distribution* Products**

| Manufacturer/Contact Information   | Product Name/Model   | Type of Distribution Product |
|--|--|------------------------------|
| <p>Geoflow, Inc.<br/>506 Tamal Plaza<br/>Corte Madera, CA 94925</p> <p>Tel: (800) 828-3388<br/>Tel: (415) 927-6000<br/>Fax: (415) 927-0120<br/>E-mail: krf@geoflow.com<br/>Web: www.geoflow.com</p>  | <p>Wasteflow Pressure Compensating<br/>WFPC16-2:9,12,18,24<br/>WFPC16-4:9,12,18,24<br/>WFPCas16-2:9,12,18,24<br/>WFPCas16-4:9,12,18,24</p> <p>Wasteflow Classic<br/>WFCL16-4:9,12,18,24</p>  | <p>Dripline</p>              |
| <p>Infiltrator Water Technologies, LLC<br/>4 Business Park Road<br/>PO Box 768<br/>Old Saybrook, CT 06475</p> <p>Tel: (800) 221-4436<br/>Tel: (860) 577-7100<br/>Fax: (860) 577-7001<br/>E-mail: info@infiltratorsystems.net<br/>Web: www.infiltratorwater.com</p> | <p>Infiltrator Chamber Leach Field System</p> <p>Standard<br/>ARC 36<br/>ARC 36HC<br/>ARC 36 LP<br/>ARC 24<br/>14" High Capacity<br/>11" Standard<br/>Bio 2<br/>Bio 3<br/>High Capacity<br/>Equalizer 36<br/>Equalizer 24<br/>Quick4 Standard<br/>Quick4 High Capacity<br/>Quick4 Equalizer 36<br/>Quick4 Equalizer 24<br/>Quick4 Plus Standard<br/>Quick4 Plus Standard Low Profile</p> | <p>Gravelless Chamber</p>    |

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**Manufacturers of Registered Proprietary On-site *Distribution* Products**

| Manufacturer/Contact Information  | Product Name/Model  | Type of Distribution Product |
|---|---|------------------------------|
| Infiltrator Water Technologies, LLC<br>Continued  | Engineered Aggregate Systems<br>1003-H<br>1003-T<br>1203-H<br>1003-H-GEO<br>1003-T-GEO<br>1203-H-GEO<br>FTSG 103H-1<br>FTSG 103T-1<br>FTSG 123H-1   | Gravel Substitute            |
| Netafim<br>5470 E. Home Avenue<br>Fresno, CA 93727<br><br>Tel: (888)-638-2346<br>Tel: (585) 615-6440<br>E-mail: <a href="mailto:mai.thao@netafimusa.com">mai.thao@netafimusa.com</a><br>Web: <a href="http://www.netafimusacom">www.netafimusacom</a> | Bioline Dripperline*<br>0.4 GPH Dripper<br>0.6 GPH Dripper<br>0.9 GPH Dripper<br><br>*"Techfilter" disk filter with root inhibitor implanted into replaceable disk cartridge is optional. | Dripline                     |

## SECTION 3 – List of Registered On-site Treatment and Distribution Products

The following pages present the current list of registered treatment and distribution products by product type, under the categories and allowances provided in WAC 246-272A. The list includes lists of the following:

- Treatment products
  - Categories 1, 2, & 3
  - Treatment levels met as verified by test results using the protocol required by WAC 246-272A
  - Both proprietary and public domain
- Proprietary distribution technologies
  - Gravelless Distribution Products
  - Subsurface Dripline Products

To locate the contact information for a product, find the product in the alphabetical list of manufacturers in Section 2. Unless this list contains specific model numbers, all models listed in Section 2 can be assumed to meet the applicable requirements for listing in this section.

If a certain product is not listed, or if a listed manufacturer's specific model number is not included on the list, the product IS NOT APPROVED for use in Washington State and may not be permitted by the local health officer.

### **Disclaimer**

*Product registration and listing does not constitute departmental approval of marketing, advertising, or labeling practices employed by a manufacturer, nor does it constitute an endorsement of these products, nor a preference among the manufacturers.*

**Registered On-site *Treatment* Products**

**Category 1**

| <b>Proprietary<br/>Product Name / Model</b>   | <b>TLA</b> | <b>TLB</b> | <b>TLC</b> | <b>TLD</b> | <b>TLE</b> | <b>TLN</b> |
|---|------------|------------|------------|------------|------------|------------|
| AdvanTex AX20RT, AX20, AX25RT, AX20-2, AX20-3, AX20-4, AX100, AX100-2, AX-MAX, AX-MAX075-14, AX-MAX125-21, AX-MAX175-28 with Orenco UV units  | ✓          | ✓          |            |            |            | ✓          |
| AdvanTex AX20RT, AX20, AX25RT, AX20-2, AX20-3, AX20-4, AX100, AX100-2, AX-MAX, AX-MAX075-14, AX-MAX125-21, AX-MAX175-28   |            |            | ✓          | ✓          |            | ✓          |
| AIRR 714  |            |            |            | ✓          | ✓          |            |
| Aqua Aire Series AA500, AA600, AA750, AA800, AA1000, AA1200, AA1500   |            |            |            | ✓          |            |            |
| Aqua Safe AS600 + 4RN   |            |            |            | ✓          | ✓          |            |
| Aqua Safe AS600 + 4RN w/ Disinfectant UV and Salcor 3G UV   |            | ✓          |            |            |            |            |
| Aqua Safe Series AS500, AS600, AS750, AS1000, AS1500, AS500L, AS600L, AS800L, and AS1100L   |            |            |            | ✓          | ✓          |            |
| BioBarrier MBR 0.5, 1.0, and 1.5  | ✓          | ✓          | ✓          | ✓          |            |            |
| BioBarrier MBR 0.5-N, 1.0-N, and 1.5-N  | ✓          | ✓          | ✓          | ✓          |            | ✓          |
| Busse MBR GT400, GT500, GT800, GT1000, & GT1200   | ✓          | ✓          | ✓          | ✓          |            |            |
| Clearstream 500 G Series Aerobic Treatment Units with CS 120 UV disinfection unit 500G/GC, 500GS/GSC, 500GST, 500GT, 500GC2, 500GC2P, 500GC3-500, 500GC3-750                                    | ✓          |            |            |            |            |            |
| Clearstream Aerobic Treatment Units 500D/DC, 500DS/DSC, 500DST, 500DC2, 500DC2P, 500DC3-500, 500DC3-750, 600D/DC, 600DT, 600DC2, 600DC3, 1000DD, 1000DCD, 1000DTD                               |            | ✓          |            |            |            | ✓          |
| Clearstream Aerobic Treatment Units 500G/GC, 500GS/GSC, 500GST, 500GT, 500GC2, 500GC2P, 500GC3-500, 500GC3-750, 600G/GC, 600GT, 600GC2, 600GC3, 1000GD, 1000GCD, 1000GTD                        |            |            | ✓          |            |            |            |
| Clearstream Aerobic Treatment Units 500DA/DAC, 500DAS/DASC, 500DAST, 500DAT, 500DAC2, 500DAC3-500, 500DAC3-750, 500DAU, 600DA/DAC, 600DAT, 600DAC2, 600DAC3, 600DAU, 800DA/DAC, 800DAT, 800DAC2 |            | ✓          |            |            |            |            |
| ECOPOD E50 and E60 with Salcor 3G UV  |            | ✓          |            |            |            |            |
| ECOPOD E50, E60   |            |            |            | ✓          | ✓          |            |
| ECOPOD E50NCA, E60NCA, E75NCA, E100NCA, E150NCA, E200-NFF, E250-NFF, E300-NFF, E50-N-IM1060, E60-N-IM1060, E75-N-IM1060   |            |            | ✓          | ✓          |            |            |
| ECOPOD E50NCA, E60NCA, E75NCA, E100NCA, E150NCA, E200-NFF, E250-NFF, E300-NFF, E50-N-IM1060, E60-N-IM1060, E75-N-IM1060 with Salcor 3G UV   | ✓          | ✓          |            |            |            |            |

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| <b>Proprietary<br/>Product Name / Model</b>  | <b>TLA</b> | <b>TLB</b> | <b>TLC</b> | <b>TLD</b> | <b>TLE</b> | <b>TLN</b> |
|--|------------|------------|------------|------------|------------|------------|
| Eljen GSF/A42 TL-C ( <i>pressure</i> )   |            |            | ✓          |            |            |            |
| Enviro-Flo E-500, E-550, E-600, E-750, & E-1000  |            |            |            | ✓          | ✓          |            |
| Enviro-Guard ENV-0.75 with Salcor 3G UV  | ✓          | ✓          |            |            |            |            |
| Fuji Clean CEN5, CEN7, CEN10 with Salcor 3G UV   | ✓          | ✓          |            |            |            |            |
| Fusion ZF450, ZF600, ZF800   |            |            |            | ✓          | ✓          |            |
| Glendon BioFilter M31  | ✓          | ✓          | ✓          |            |            |            |
| Glendon BioFilter M32  | ✓          | ✓          | ✓          |            |            |            |
| Hydro-Kinetic 600 FEU with Norweco AT 1500 UV  | ✓          | ✓          |            |            |            | ✓          |
| LOWeFLOW™ System with OSCAR™   |            | ✓          | ✓          | ✓          |            |            |
| LOWeFLOW™ System with the Salcor 3G UV LOT-LF-500, 600, 1000, 1500, 2000, 2500, 3000, 3500                       |            | ✓          |            | ✓          |            |            |
| MicroFAST 0.5, 0.625, 0.75, 0.9, 1.5, 3.0, 4.5, 9.0  |            |            |            | ✓          | ✓          | ✓          |
| MicroFAST 0.5, 0.625, 0.75, 0.9, 1.5, 3.0, 4.5, 9.0 with Salcor 3G UV  | ✓          | ✓          |            |            |            | ✓          |
| Multi-Flo FTB-0.5, FTB-0.6, FTB-0.75, FTB-1.0, FTB-1.5   |            |            |            | ✓          | ✓          |            |
| Nayadic M-6A-F/M-6, M-6A-C/M-6AC-F, M-8A-F/M-8A, M-1050-F/M-1050A, M-1200-F/M-1200A, M-2000-F/M-2000A            |            |            |            | ✓          | ✓          |            |
| NuWater B-500 with Salcor 3G UV  |            | ✓          |            |            |            |            |
| NuWater BNR-500, BNR-600   |            | ✓          | ✓          | ✓          |            |            |
| NuWater BNR-500, BNR-600 with Salcor 3G UV   | ✓          | ✓          |            |            |            |            |
| OSCAR-II Series: OSII-240, OSII-300, OSII-360, OSII-450, OSII-480, OSII-600                                      |            |            | ✓          |            |            |            |
| OSCAR-III Series OSIII – 240, OSIII – 300, OSIII – 360, OSIII – 450, OSIII - 480                                 |            | ✓          | ✓          |            |            |            |
| OSCAR-in-a-Box™  |            | ✓          | ✓          |            |            |            |
| Puraflo Peat Fiber Biofilter P150N 3A, P150N 4A, P150N 5A, and P150N 6A  |            |            |            |            | ✓          |            |
| Puraflo Peat Fiber Biofilter P150N 3B, P150N 4B, P150N 5B, P150N 6B, P150N 7B, P150N 8B, P150N 9B, and P150N 10B |            |            | ✓          | ✓          | ✓          |            |
| RetroFAST 0.375  |            |            |            |            | ✓          | ✓          |
| SeptiTech STAAR 0.5,0.75,1.0,1.2,1.5   |            |            |            | ✓          | ✓          |            |
| SeptiTech STAAR: 0.5D,0.75D,1.0D,1.2D,1.5D   |            |            |            |            | ✓          | ✓          |
| Singulair 960-500, 960-750, 960-1000, 960-1250, 960-1500, 960LP-500, 960LP-1000, 960-OP-500, 960-OP-1000         |            |            |            | ✓          | ✓          |            |
| Singulair TNT-500, TNT-750, TNT-1000, TNT-1250, TNT-1500, TNT-OP-500, TNT-OP-1000                                |            |            |            | ✓          | ✓          |            |



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| <b>Proprietary<br/>Product Name / Model</b>  | <b>T1A</b> | <b>T1B</b> | <b>T1C</b> | <b>T1D</b> | <b>T1E</b> | <b>T1N</b> |
|--|------------|------------|------------|------------|------------|------------|
| Singulair TNT-500, TNT-750, TNT-1000, TNT-1250, TNT-1500,<br>TNT-OP-500, TNT-OP-1000 with Norweco AT1500 UV Unit | ✓          | ✓          |            |            |            |            |
| TRD-1000-500, 1000-600, 1000-700, 1000-800, 1000-900,<br>1000-1000 with UV                                       | ✓          | ✓          |            | ✓          | ✓          |            |
| Whitewater DF50 and DF60 with Salcor 3G UV   | ✓          | ✓          |            |            |            |            |
| Whitewater DF75, DF100, DF100A, DF150  |            |            |            | ✓          | ✓          |            |

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**Category 1**

| <b><u>Public Domain</u><br/>Technology Name*</b> | <b>T/A</b> | <b>T/B</b> | <b>T/C</b> | <b>T/D</b> | <b>T/E</b> | <b>T/N</b>        |
|--|------------|------------|------------|------------|------------|-------------------|
| Intermittent Sand Filter System                  |            | ✓          | ✓          | ✓          |            |                   |
| Mound System                                     |            | ✓          | ✓          |            |            |                   |
| Recirculating Gravel Filter System               |            |            | ✓          | ✓          |            | 50% of<br>Total N |
| Recirculating Gravel Filter System w/VWDB        |            |            | ✓          | ✓          |            | ✓                 |
| Sand Lined Trenches/ Bed System                  |            | ✓          | ✓          |            |            |                   |
| Stratified Sand Filter System                    | ✓          | ✓          | ✓          | ✓          |            |                   |

\* Listed treatment technologies meet levels of treatment performance when constructed and used according to their respective departmental recommended standards and guidance documents.

**Category 2**

| <b><u>Proprietary</u><br/>Product Name / Model</b> | <b>T/E</b> | <b>High<br/>Strength<br/>Commercial</b> | <b>High<br/>Strength<br/>Residential</b> | <b>Treatment<br/>Capacity<br/>(pounds per day<br/>for CBOD<sub>5</sub>)</b> |
|--|------------|---|--|---|
| NIBBLER SBP & NIBBLER CBP                          | ✓          | ✓                                       | ✓  | 0.81  |
| NIBBLER Jr.  | ✓          |   | ✓  | 1.0   |
| MicroFAST 0.5                                      | ✓          |   | ✓  | 1.0   |
| MicroFAST 0.75                                     | ✓          |   | ✓  | 1.5   |
| MicroFAST 0.9                                      | ✓          |   | ✓  | 2.0   |
| MicroFAST 1.5                                      | ✓          |   | ✓  | 3.2   |
| MicroFAST 3.0                                      | ✓          |   | ✓  | 6.4   |
| MicroFAST 4.5                                      | ✓          |   | ✓  | 9.5   |
| MicroFAST 9.0                                      | ✓          |   | ✓  | 17.0  |

**Registered On-site *Treatment* Products (cont'd)**

**Category 3**

| <b>Incinerating Toilets</b>            |                                 |                    |
|--|---------------------------------|--------------------|
| <b>Product Name / Model</b>            | <b>Rated Capacity (persons)</b> | <b>Voltage (V)</b> |
| Incinolet Electric Incinerating Toilet |                                 |                    |
| Incinolet CF                           | 4-person                        | 120                |
| Incinolet TR                           | 8-person                        | 240                |
| Incinolet WB                           | 4/8-person                      | 120/240            |

**Category 3**

| <b>Composting Toilets</b>        |   |                    |
|----------------------------------|---|--------------------|
| <b>Product Name / Model</b>      | <b>Rated Capacity (persons or uses/day)</b> | <b>Voltage (V)</b> |
| Clivus Multrum Composting Toilet |   |                    |
| M1                               | 10-uses/day                                 | 115 or 12          |
| M2                               | 15-uses/day                                 | 115 or 12          |
| M3                               | 40-uses/day                                 | 115 or 12          |
| M10                              | 60-uses/day                                 | 115 or 12          |
| M12                              | 80-uses/day                                 | 115 or 12          |
| M15                              | 100-uses/day                                | 115 or 12          |
| M18                              | 120-uses/day                                | 115 or 12          |
| M22                              | 80-uses/day                                 | 115 or 12          |
| M28                              | 120-uses/day                                | 115 or 12          |
| M32                              | 110-uses/day                                | 115 or 12          |
| M35                              | 180-uses/day                                | 115 or 12          |
| M54ADA                           | 60-uses/day                                 | 12 or 115          |
| Outback                          | 0-20 uses/day                               | 110 or 12          |
| Sun-Mar Composting Toilet        |   |                    |
| Excel                            | 3-person residential                        | 115                |
| Centrex 2000 A/F                 | 4-person residential                        | 115                |
| Centrex 2000 A/F AC/DC           | 3-person residential                        | 115 & 12           |
| Centrex 3000 A/F                 | 5-person residential                        | 115                |

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**Composting Toilets**

| <b>Product Name / Model</b> | <b>Rated Capacity<br/>(persons or uses/day)</b> | <b>Voltage (V)</b> |
|-----------------------------|---|--------------------|
| Centrex 3000 A/F AC/DC      | 4-person-residential                            | 115 & 12           |
| Compact                     | 1-person residential                            | 115                |
| Spacesaver                  | 1-person residential                            | 115                |
| Sun-Mar Mobile              | 1-person residential                            | 12 & 115           |
| Excel NE                    | 2-person residential                            | Non-electric       |

**Registered On-site *Distribution* Products**

| <b>Gravelless Chamber Products</b>          |  |   |  |  |   |
|---|--|---|--|--|---|
| <b>Product / Model</b>                      | <b>Unit Size<br/>Outside Dimensions<br/>W / L / H<br/>(inches)</b> | <b>Void Space<br/>per unit<br/>(cu. ft)</b> | <b>Void Space<br/>per linear<br/>foot<br/>(cu. ft)</b> | <b>Infiltrative<br/>Surface per<br/>unit<br/>(sq. ft.)</b> | <b>Infiltrative<br/>Surface per<br/>linear foot<br/>(sq. ft.)</b> |
| Infiltrator Chamber Leach Field System      |  |   |  |  |   |
| Standard                                    | 34" x 75" x 12"  | 10.3  | 1.65   | 17.69  | 2.83  |
| ARC 36                                      | 34.5" x 60" x 13"  | 8.0   | 1.6  | 14.38  | 2.88  |
| ARC 36HC                                    | 34.5" x 60" x 16"  | 10.7  | 2.14   | 14.38  | 2.88  |
| ARC 36 LP                                   | 33.8" x 60" x 8"   | 5.80  | 1.16   | 14.08  | 2.82  |
| ARC 24                                      | 22.5" x 60" x 12"  | 5.02  | 1.0  | 9.38   | 1.88  |
| 14" High Capacity                           | 34" x 76" x 14"  | 14.0  | 2.25   | 17.9   | 2.8   |
| 11" Standard                                | 34" 76" x 11"  | 8.5   | 1.36   | 17.9   | 2.8   |
| Bio 2                                       | 15.38" x 86.9" x 12.38"  | 5.0   | 0.7  | 9.0  | 1.3   |
| Bio 3                                       | 22" x 86.9" x 12.38"   | 8.6   | 1.2  | 13.2   | 1.8   |
| High Capacity                               | 34" x 75" x 16"  | 16.3  | 2.61   | 17.69  | 2.83  |
| Equalizer 36                                | 22" x 100" x 13"   | 8.42  | 1.00   | 15.24  | 1.83  |
| Equalizer 24                                | 15" x 100" x 11"   | 4.45  | 0.54   | 10.41  | 1.25  |
| Quick4 Standard                             | 34" x 48" x 12"  | 5.82  | 1.46   | 11.32  | 2.83  |
| Quick4 Plus<br>Standard                     | 34" x 48" x 12"  | 6.20  | 1.55   | 11.32  | 2.83  |
| Quick4 Plus<br>Standard Low<br>Profile (LP) | 34" x 48" x 8"   | 4.28  | 1.07   | 11.32  | 2.83  |
| Quick4 Plus All-In-<br>One Endcap           | 18" x 13" x 8"   | 0.68  | NA   | 1.6  | NA  |
| Quick4 Plus All-In-<br>One Endcap           | 18" x 10" x 8"   | 0.60  | NA   | 1.3  | NA  |
| Quick4 Plus<br>Endcap                       | 18" x 4" x 8"  | 0.14  | NA   | 0.6  | NA  |
| Quick4 Standard<br>MultiPort End Cap        | 34" x 16" x 12"  | 1.22 (average<br>per unit)                  | NA   | 2.43 (average<br>per unit)                                 | NA  |
| Quick4 HiCap                                | 34" x 48" x 16"  | 8.30  | 2.08   | 11.32  | 2.83  |
| Quick4 HiCap<br>MultiPort End Cap           | 34" x 19" x 16"  | 1.93 (average<br>per unit)                  | NA   | 3.00 (average<br>per unit)                                 | NA  |
| Quick4 EQ36                                 | 22" x 48" x 12"  | 4.30  | 1.08   | 7.32   | 1.83  |
| Quick4 EQ36<br>MultiPort End Cap            | 22" x 16" x 12"  | 0.74 (average<br>per unit)                  | NA   | 1.65 (average<br>per unit)                                 | NA  |
| Quick4 EQ24                                 | 16" x 48" x 11"  | 2.78  | 0.70   | 5.32   | 1.33  |

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### Gravelless Chamber Products

| Product / Model                  | Unit Size<br>Outside Dimensions<br>W / L / H<br>(inches) | Void Space<br>per unit<br>(cu. ft) | Void Space<br>per linear<br>foot<br>(cu. ft) | Infiltrative<br>Surface per<br>unit<br>(sq. ft.) | Infiltrative<br>Surface per<br>linear foot<br>(sq. ft.) |
|----------------------------------|--|------------------------------------|--|--|---|
| Quick4 EQ24<br>MultiPort End Cap | 16" x 14" x 12"  | 0.52 (average<br>per unit)         | NA   | 1.20 (average<br>per unit)                       | NA  |

### Geocomposite Drainfield

| Product /<br>Model                      | Unit Size<br>W / L / H<br>(inches) | Void<br>Space<br>per foot <sup>3</sup><br>of media<br>(cu. ft) | Void Space<br>per<br>arrangement<br>of units<br>(cu. ft) | Void Space<br>per linear<br>foot of<br>trench<br>(cu. ft) | Infiltrative<br>Surface per<br>arrangement<br>units<br>(sq. ft.) | Infiltrative<br>Surface per<br>linear foot<br>(sq. ft.) |
|---|------------------------------------|--|--|---|--|---|
| Eljen GSF Geotextile Sand Filter System |                                    |  |  |   |  |   |
| GSF/B43<br>module                       | 36" x 48" x 7"                     | 0.52   | 6.3  | 1.57  | 12   | 3   |

**Registered On-site *Distribution* Products (cont'd)**

| <b>Gravel Substitute Products</b>               |  |  |   |  |  |   |
|---|--|--|---|--|--|---|
| <b>Product / Model</b>                          | <b>Unit Size W / L / H (inches)</b>  | <b>Void Space per foot<sup>3</sup> of media (cu. ft)</b> | <b>Void Space per arrangement of units (cu. ft)</b> | <b>Void Space per linear foot of trench (cu. ft)</b> | <b>Infiltrative Surface per arrangement of units (sq. ft.)</b> | <b>Infiltrative Surface per linear foot (sq. ft.)</b> |
| <b>Infiltrator Engineered Aggregate Systems</b> |  |  |   |  |  |   |
| 1003-H  | 30" x 120" x 10"<br>Horizontal arrangement of three 10" diameter "tubes" in a 30" wide trench.                 | 0.4  | 7.2   | 0.72   | 25   | 2.5   |
| 1003-T  | 24" x 120" x 10"<br>Triangular arrangement of three 10" diameter "tubes" in 24" wide trench.                   | 0.4  | 7.2   | 0.72   | 20   | 2.0   |
| 1203-H  | 36" x 120" x 12"<br>Horizontal arrangement of three 12" diameter "tubes" in a 36" wide trench.                 | 0.4  | 10.1  | 1.01   | 30   | 3.0   |
| 1003-H-GEO                                      | 30" x 120" x 10"<br>Horizontal arrangement of three 10" diameter "tubes" with geotextile in a 36" wide trench. | 0.4  | 7.2   | 0.72   | 25   | 2.5   |
| 1003-T-GEO                                      | 24" x 120" x 10"<br>Triangular arrangement of three 24" diameter "tubes" in a 24" wide trench                  | 0.4  | 7.2   | 0.72   | 20   | 2.0   |
| 1203-H-GEO                                      | 36" x 120" x 12"<br>Horizontal arrangement of three 12" diameter "tubes" with geotextile in a 36" wide trench. | 0.4  | 10.1  | 1.01   | 30   | 3.0   |

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**Gravel Substitute Products**

| <b>Product / Model</b> | <b>Unit Size W / L / H (inches)</b>  | <b>Void Space per foot<sup>3</sup> of media (cu. ft)</b> | <b>Void Space per arrangement of units (cu. ft)</b> | <b>Void Space per linear foot of trench (cu. ft)</b> | <b>Infiltrative Surface per arrangement of units (sq. ft.)</b> | <b>Infiltrative Surface per linear foot (sq. ft.)</b> |
|------------------------|--|--|---|--|--|---|
| FTSG103 H-1            | 30" x 120" x 10"<br>Horizontal arrangement of three 12" diameter "tubes" with geotextile in a 36" wide trench. | 0.4  | 7.2   | 0.72   | 25   | 2.5   |
| FTSG103 T-1            | 24" x 120" x 10"<br>Triangular arrangement of three 10" diameter "tubes" with geotextile in a 24" wide trench. | 0.4  | 7.2   | 0.72   | 20   | 2.5   |
| FTSG123 H-1            | 36" x 120" x 12"<br>Horizontal arrangement of three 12" diameter "tubes" in a 36" wide trench.                 | 0.4  | 10.1  | 1.01   | 30   | 3.0   |



**Registered On-site *Distribution* Products (cont'd)**

| <b>Subsurface Dripline Products</b> |                               |   |   |   |
|-------------------------------------|-------------------------------|---|---|---|
| <b>Product Name / Model</b>         | <b>Pipe I.D.<br/>(inches)</b> | <b>Emitter<br/>Discharge<br/>Rate (GPH)</b> | <b>Emitter<br/>Spacing<br/>(inches)</b> | <b>Emitter Type</b>                               |
| Geoflow WasteFlow PC 0.53 GPH       | 0.55                          | 0.53  | 24, 18, 12, & 6                         | Pressure compensating                             |
| Geoflow WasteFlow PC 1.02 GPH       | 0.55                          | 1.02  | 24, 18, 12, & 6                         | Pressure compensating                             |
| Geoflow Wasteflow Classic           | 0.55                          | 1.3 at 20 PSI                               | 24, 18, 12, & 9                         | Non-compensating<br>(requires pressure regulator) |
| Netafim Bioline Dripperline 0.4 GPH | 0.57                          | 0.42  | 24, 18, 12                              | Pressure compensating                             |
| Netafim Bioline Dripperline 0.6 GPH | 0.57                          | 0.62  | 24, 18, 12                              | Pressure compensating                             |
| Netafim Bioline Dripperline 0.9 GPH | 0.57                          | 0.92  | 24, 18, 12                              | Pressure compensating                             |