

5.4 Extended Treatment Package Systems

Revision: November 5, 2015

Table 5-3 lists ETPSs approved by DEQ for provisional use. Table 5-4 lists ETPSs approved by DEQ for general use. Provisional use approval requires that manufacturers follow specific operation, maintenance, and monitoring protocols to obtain general use approval (section 1.4.2.2.1). General use approval allows manufacturers’ ETPS units to be installed following specific O&M protocols (section 1.4.2.2.2). Provisional and general ETPS approvals are not effective until July 1, 2016.

Table 5-3. Extended treatment package systems approved by DEQ for provisional use.

| Manufacturer and Model | Treatment Limit (GPD) | Third-Party Standards (TPS) or Experimental | Operation, Maintenance, and Monitoring Provider | Approval Date |
|--|-----------------------|---|---|---------------|
| A-Aerobic-1, LLC A-Aerobic-1 Class I | 500 | TPS | Service provider and third-party tester | 10/14/02 |
| Advanced Septic Treatment System TRD-1000-500 Class I | 500 | TPS | Service provider and third-party tester | 11/3/03 |
| TRD-1000-600 Class I | 600 | | | |
| TRD-1000-700 Class I | 700 | | | |
| TRD-1000-800 Class I | 800 | | | |
| TRD-1000-900 Class I | 900 | | | |
| TRD-1000-1000 Class I | 1,000 | | | |
| Aero-Tech Aerobic Treatment Units AT-500 Class I | 500 | TPS | Service provider and third-party tester | 11/26/08 |
| AT-600 Class I | 600 | | | |
| AT-750 Class I | 750 | | | |
| AT-1000 Class I | 1,000 | | | |
| AT-1500 Class I | 1,500 | | | |

| Manufacturer and Model | Treatment Limit (GPD) | Third-Party Standards (TPS) or Experimental | Operation, Maintenance, and Monitoring Provider | Approval Date |
|--|-----------------------|---|---|---------------|
| Alternative Wastewater Systems Inc. SYBR-AER Class I | 500 | TPS | Service provider and third-party tester | 11/3/03 |
| SYBR-AER Class I | 600 | | | |
| SYBR-AER Class I | 800 | | | |
| SYBR-AER Class I | 1,000 | | | |
| SYBR-AER Class I | 1,500 | | | |
| American Wastewater Systems Inc. BEST 1 AWS-500 Class I | 500 | TPS | Service provider and third-party tester | 11/03/03 |
| BEST 1 AWS-800 Class I | 800 | | | |
| BEST 1 AWS-1000 Class I | 1000 | | | |
| BEST 1 AWS-1200 Class I | 1,200 | | | |
| BEST 1 AWS-1500 Class I | 1,500 | | | |
| Aquapoint Bioclere 16/12/500: Class I | 500 | TPS | Service provider and third-party tester | 3/19/91 |
| Aquarobic International Mini-Plant 54291 Concrete Filter Kit [1]: Class I | 500 to 1,500 inches | TPS | Service provider and third-party tester | 11/03/03 |
| Mini-Plant 54291 Fiberglass Class I | 100-gallon units | | | |
| Bio-Microbics®, Inc. BioBarrier® MBR 0.4 Class I | 400 | Yes | Service provider and third-party tester | — |
| BioBarrier® MBR 0.4-N Class I | 400 | | | |
| BioBarrier® MBR 0.5 Class I | 500 | | | |
| BioBarrier® MBR 0.5-N Class I | 500 | | | |
| BioBarrier® MBR 1.0 Class I | 1,000 | | | |
| BioBarrier® MBR 1.0-N Class I | 1,000 | | | |
| BioBarrier® MBR 1.5 Class I | 1,500 | | | |
| BioBarrier® MBR 1.5-N Class I | 1,500 | | | |
| Busse Innovative Systeme GmbH MF-B-400 | 400 | TPS | Service provider and third-party tester | 7/7/09 |
| Clearstream Wastewater Systems Model 500 N/C Class I | 500 | TPS | Service provider and third-party tester | 3/28/96 |
| Model 600 N/C Class I | 600 | | | |

| Manufacturer and Model | Treatment Limit (GPD) | Third-Party Standards (TPS) or Experimental | Operation, Maintenance, and Monitoring Provider | Approval Date |
|------------------------------------|-----------------------|---|---|---------------|
| Model 750 N/C Class I | 750 | | | |
| Model 1000 N/C Class I | 1,000 | | | |
| Model 1500 N/C Class I | 1,500 | | | |
| Consolidated Treatment System Inc. | | | Service provider and third-party tester | |
| Multi-Flo FTB: Class I | 500 to | TPS | | 4/2/96 |
| 0.5, 0.6, 0.6-C, 0.75, 1.0, 1.5 | 1,500 | | | |
| Nayadic M: Class I | 500 to | | | 4/2/96 |
| 6A, 8A, 1050A, 1200A, 2000A | 1,500 | | | |
| Delta Env. Products | | | Service provider and third-party tester | |
| DF40-C, F, CC, CA, FF-Class I | 400 | TPS | | 2/3/97 |
| DF50-C, F, CC, CA, FF-Class I | 500 | | | |
| DF60-C, F, CC, CA, FF-Class I | 600 | | | |
| DF75-C, F, CC, CA, FF-Class I | 750 | | | |
| DF100-C, F, CC, CA, FF-Class I | 1,000 | | | |
| DF150-C, F, CC, CA, FF-Class I | 1,500 | | | |
| Desoto Concrete Products | | | Service provider and third-party tester | |
| H-Two-O Series: Class I | 500 | TPS | | 11/3/03 |
| | 750 | | | |
| | 1,000 | | | |
| Ecological Tanks, Inc. | | | Service provider and third-party tester | |
| AA, AS 500 Class I | 500 | TPS | | 11/1/97 |
| AA, AS-650 Class I | 650 | | | |
| AA, AS-750 Class I | 750 | | | |
| AA, AS-100 Class I | 1,000 | | | |
| AA, AS-1500 Class I | 1,500 | | | |
| Enviro-Flo: Class I | | | Service provider and third-party tester | |
| E-500, E-550 | 500 | TPS | | 12/18/02 |
| E-550 | 550 | | | |
| E-600 | 600 | | | |
| E-750 | 750 | | | |
| E-1000 | 1,000 | | | |

| Manufacturer and Model | Treatment Limit (GPD) | Third-Party Standards (TPS) or Experimental | Operation, Maintenance, and Monitoring Provider | Approval Date |
|---|-----------------------|---|---|---------------|
| Model 750 N/C Class I | 750 | | | |
| Model 1000 N/C Class I | 1,000 | | | |
| Model 1500 N/C Class I | 1,500 | | | |
| Consolidated Treatment System Inc. Multi-Flo FTB: Class I 0.5, 0.6, 0.6-C, 0.75, 1.0, 1.5 | 500 to 1,500 | TPS | Service provider and third-party tester | 4/2/96 |
| Nayadic M: Class I 6A, 8A, 1050A, 1200A, 2000A | 500 to 1,500 | | | 4/2/96 |
| Delta Env. Products DF40-C, F, CC, CA, FF-Class I | 400 | | Service provider and third-party tester | |
| DF50-C, F, CC, CA, FF-Class I | 500 | | | |
| DF60-C, F, CC, CA, FF-Class I | 600 | TPS | | 2/3/97 |
| DF75-C, F, CC, CA, FF-Class I | 750 | | | |
| DF100-C, F, CC, CA, FF-Class I | 1,000 | | | |
| DF150-C, F, CC, CA, FF-Class I | 1,500 | | | |
| Desoto Concrete Products H-Two-O Series: Class I | 500 750 1,000 | TPS | Service provider and third-party tester | 11/3/03 |
| Ecological Tanks, Inc. AA, AS 500 Class I | 500 | | Service provider and third-party tester | |
| AA, AS-650 Class I | 650 | TPS | | 11/1/97 |
| AA, AS-750 Class I | 750 | | | 5/2/02 |
| AA, AS-100 Class I | 1,000 | | | |
| AA, AS-1500 Class I | 1,500 | | | |
| Enviro-Flo: Class I E-500, E-550 | 500 | | Service provider and third-party tester | |
| E-550 | 550 | TPS | | 12/18/02 |
| E-600 | 600 | | | |
| E-750 | 750 | | | |
| E-1000 | 1,000 | | | |

| Manufacturer and Model | Treatment Limit (GPD) | Third-Party Standards (TPS) or Experimental | Operation, Maintenance, and Monitoring Provider | Approval Date |
|---|-------------------------------------|---|---|-------------------------------|
| H.E. McGrew, Inc. Class I Alliance 500, 750, 1000 Mighty Mac, 500, 600, 750 Cajun Aire Basic 500, 750, 1000 Cajun Aire Advanced, 500, 750, 1000 | 500 to 1,000 | TPS | Service provider and third-party tester | 6/5/00 12/5/97 12/30/02 |
| Hoot Aerobic Systems, Inc. Class I H 500, 600, 750, 1000 LA 500, 1000 | 500 to 1,000 | TPS | Service provider and third-party tester | 2/6/01 |
| Hydro-Action, Inc.: Class I AP-500, 600, 750, 900, 1500 | 500 to 1,500 | TPS | Service provider and third-party tester | 4/2/96 3/99 8/1/03 |
| Jet Inc.: Class I J-500, J-600 J-750,1000, 1250, 1500 | 500 600 750–1,500 | TPS | Service provider and third-party tester | 10/96 5/93 7/29/97 |
| MICROSEPTEC: Class I Enviroserver, ENFG 600, 1200, 1500 | 600 1,200 1,500 | TPS | Service provider and third-party tester | 6/25/99 |
| National Wastewater Systems Inc., Solar Air 500, 800, 1000, 1200 | 500 800 1,000 1,200 | TPS | Service provider and third-party tester | 8/1/03 |
| Norweco, Inc. Singulair 950 series Class I Singulair 960 series Class I Singulair TNT | 600–1,500 500–1,500 500-1,500 | TPS | Service provider and third- party tester | 4/3/96 8/96 8/08 |

| Manufacturer and Model | Treatment Limit (GPD) | Third-Party Standards (TPS) or Experimental | Operation, Maintenance, and Monitoring Provider | Approval Date |
|--------------------------------|-----------------------|---|---|-------------------|
| Pro Flo Aerobic Systems | | | Service provider and third-party tester | |
| Pro Flo 500 TL | 500 | TPS | | 11/3/03 |
| Pro Flo 750 SL | 750 | | | |
| Pro Flo 1000 TC | 1,000 | | | |
| | | | | |
| Rogers Treatment Systems | | | Service provider and third-party tester | |
| Mudbug 5 | 500 | TPS | | 11/3/03 |
| Mudbug 10 | 1,000 | | | |
| Mudbug 15 | 1,500 | | | |
| Southern Manufacturing | | | Service provider and third-party tester | |
| SM-500 Class I | 500 | TPS | | 9/1/97 8/28/00 |
| SM-600 Class I | 600 | | | |
| SM-750 Class I | 750 | | | |
| SM-1000 Class I | 1,000 | | | |
| SM-1500 Class I | 1,500 | | | |
| SeptiTech | | | Service provider and third-party tester | |
| M400/M400D | 300 | TPS | | 12/09 |
| M550/M550D | 400 | | | |
| M750/M750D | 500 | | | |
| M1200/M1200D | 1,200 | | | |
| M1500/M1500D | 1,500 | | | |
| Zabel Environmental Technology | | | Service provider and third-party tester | 12/02 Dropped |
| ATS-AD-500: Class I | 500 | TPS | | |

Note: gallons per day (GPD)

Table 5-4. Extended treatment package systems approved by DEQ for general use.

| Manufacturer and Model | Treatment Limit (GPD) | CBOD ₅ (≤40 mg/L) and TSS (≤45 mg/L) Removal | Operation and Maintenance Provider | Approval Date |
|---|-----------------------|---|------------------------------------|---------------|
| Bio-Microbics®, Inc. RetroFAST® 0.375: Class I | 375 | Yes | Service provider | — |
| Bio-Microbics®, Inc. MicroFAST® 0.5 Class I | 500 | | Service provider | |
| MicroFAST® 0.75 Class I | 750 | Yes | | 3/5/97 |
| MicroFAST® 0.9 Class I | 900 | | | 6/5/00 |
| MicroFAST® 1.5 Class I | 1,500 | | | 12/27/02 |
| Orenco Systems Inc. AdvanTex AX20N | 500 | | Service provider | |
| AdvanTex AX20-RT | 500 | | | 4/10/02 |
| AdvanTex AX15-2N | 800 | | | |
| AdvanTex AX20-2N | 1,000 | Yes | | 3/1/10 |
| AdvanTex AX15-3N | 1,200 | | | |
| AdvanTex AX20-3N | 1,500 | | | 6/11/12 |
| AdvanTex AX25-RT3N | 625 | | | |

Notes: gallons per day (GPD); 5-day carbonaceous biological oxygen demand (CBOD₅); milligram per liter (mg/L); total suspended solids (TSS)