

Idaho Department of Environmental Quality

Individual/ Subsurface Sewage Disposal Rules Negotiated Rulemaking



July 10, 2019

General Housekeeping

- Sign in sheet
- Cell phones off/muted
- Mute phone lines when not participating
- Speak into a microphone and introduce yourself when providing comments
- Be precise, concise and polite
- Participation encouraged!

Current Individual/ Subsurface Sewage Disposal (SSD) Rules

- Rules address standard systems
- Minimal direction for alternative systems including proprietary and Extended Treatment Package Systems (ETPS) designs

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Alternative Systems

Individual/ Subsurface Sewage Disposal Rules

58.01.03.003.02

Alternative System. Any system for which the Department has issued design guidelines or which the Director judges to be a simple modification of a standard system.

58.01.03.004.09

Technical Guidance Manual for Individual and Subsurface Alternative Sewage Disposal. The manual maintained by the Technical Guidance Committee shall provide state-of-the-art technical guidance on alternative sewage disposal components and systems, soil type determination methodology and other information pertinent to the best management practices of individual and subsurface sewage disposal.

Proprietary Wastewater Treatment Products



Proprietary Products

Technical Guidance Manual

“All commercially manufactured wastewater components must be approved by the Director prior to installation in a subsurface sewage disposal system (IDAPA 58.01.03.009.01). Plans, specifications, and any associated third-party data (e.g., National Sanitary Foundation [NSF]/American National Standards Institute [ANSI] standards and United States Environmental Protection Agency’s [EPA] environmental technology verification testing) for commercially manufactured wastewater components must be submitted to DEQ’s on-site wastewater coordinator for approval.”

5.13 Proprietary Wastewater Treatment Products

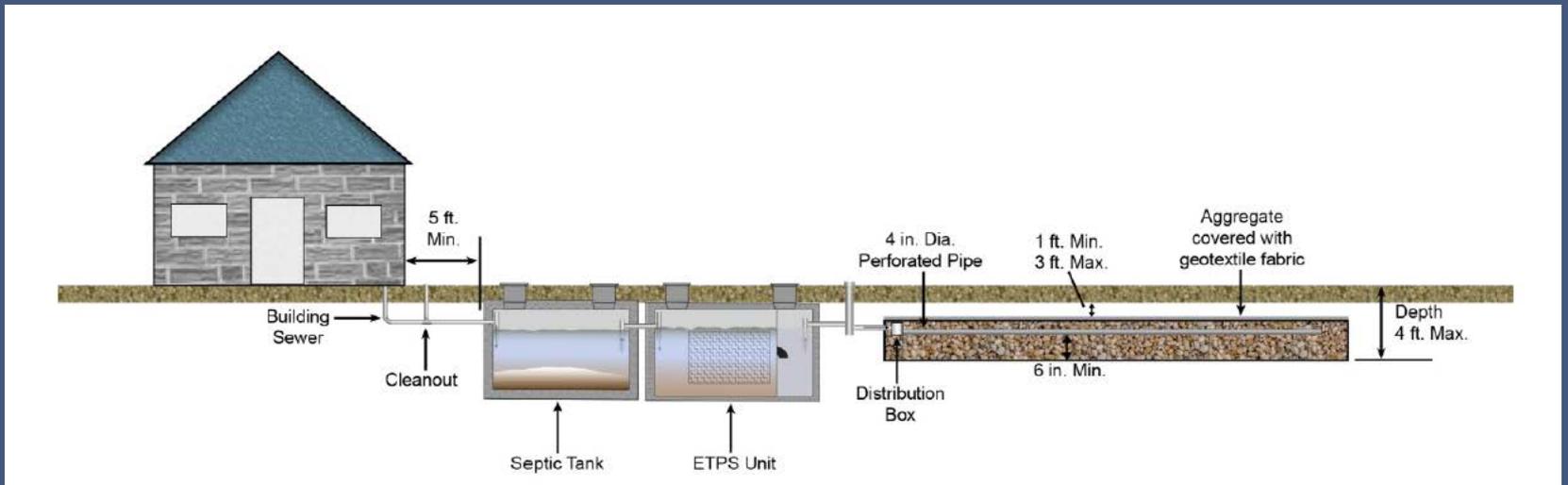
Revision: March 12, 2019

Table 5-17 lists proprietary wastewater treatment product approved by DEQ. Proprietary wastewater treatment products shall be installed by a permitted complex installer.

Table 5-17. Proprietary wastewater treatment products.

Proprietary Wastewater Treatment Product Manufacturer and Model	Treatment Limits (GPD)	Designer Requirements	Operation, Maintenance, and Monitoring Requirements	Drainfield Sizing and Size Limits	Vertical Separation Distances	Approval Date	Comments
Eljen Corporation Eljen GSF	None	Idaho licensed professional engineer required for the design of a mound system or if effluent is pressure distributed	Homeowner managed O&M	Table 4-22 for application rates Drainfield may exceed 1,500 ft ² when pressurized	Table 4-21	1/22/18 Updated: 3/18/19	Residential: See sections 2.17 and 2.18 of the product manual. Commercial: Contact Eljen for design information.
Infiltrator Water Technologies, LLC Advanced Treatment Leachfield (ATL)	1,500	Idaho licensed professional engineer required if effluent is pressure distributed	Homeowner managed O&M	Table 4-22 for application rates Drainfield may exceed 1,500 ft ² when pressurized	Table 4-21	4/2/18 Updated: 3/18/19	Residential application: 70 linear feet/bedroom, Nonresidential application: 2.14 GPD/linear foot.
Lowridge Onsite Technologies Onsite Sand Coil Recharge (OSCAR-II): OS-50 OS-100	500 ^a	Idaho licensed professional engineer	Homeowner managed O&M	Table 4-22 for application rates	Table 4-21	3/12/19	Residential/nonresidential: Number of coils required for the design flow depends on whether OS-50 (50 GPD) or OS-100 (100 GPD) coils are used.
Presby Environmental, Inc. Advanced Enviro-Septic (AES)	1,500	None	Homeowner managed O&M	Table 4-22 for application rates Drainfield may not exceed 1,500 ft ²	Table 4-21	08/16/16	Residential application: 50 linear feet/bedroom. Nonresidential application 2 GPD/linear foot.

a. System designs with flows above 500 GPD must be proportionally upsized, contact Lowridge Onsite Technologies.
Notes: gallons per day (GPD); square feet (ft²); milligrams per liter (mg/L)



Extended Treatment Package Systems

Extended Treatment Package Systems

Technical Guidance Manual

“Manufacturers seeking provisional approval of ETPS technology shall submit product information to DEQ’s on-site wastewater coordinator for review by DEQ. In addition to product information (i.e., engineering designs and product manuals), manufacturers seeking approval on ETPS units for reducing total suspended solids (TSS) and carbonaceous biological oxygen demand (CBOD5) must submit NSF/ANSI Standard 40 approvals, reports, and associated data or equivalent third-party standards. Manufacturers also seeking approval on the ETPS units for reduction of total nitrogen (TN) must submit NSF Standard 245 approvals, reports, and associated data or equivalent third-party standards.”

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

Manufacturer	Model	Treatment Limit (GPD)	CBOD ₅ (≤40 mg/L) and TSS (≤45 mg/L) Removal	Operation and Maintenance Provider	Approval Date
Bio-Microbics®, Inc. 16002 W. 110th St. Lenexa, KS 66219 (913) 422-0707 www.biomicrobics.com	RetroFAST® 0.375: Class I	375	Yes	Service provider	—
Bio-Microbics®, Inc. 16002 W. 110th St. Lenexa, KS 66219 (913) 422-0707 www.biomicrobics.com	MicroFAST® 0.5 Class I	500	Yes	Service provider	3/5/97
	MicroFAST® 0.75 Class I	750			6/5/00
	MicroFAST® 0.9 Class I	900			12/27/02
	MicroFAST® 1.5 Class I	1,500			
Norweco, Inc. 220 Republic St. Norwalk, OH 44857 (419) 668-4471 www.norweco.com	Singulair 960 series	500–1,500	Yes	Service provider	4/3/96
	Singulair TNT	500–1,500			8/96 8/08
Orenco Systems Inc. 814 Airway Ave. Sutherlin, OR 97479 (800) 348-9843 www.orengo.com	AdvanTex AX20N	500	Yes	Service provider	4/10/02
	AdvanTex AX20-RT	500			
	AdvanTex AX15-2N	800			
	AdvanTex AX20-2N	1,000			3/1/10
	AdvanTex AX15-3N	1,200			
	AdvanTex AX20-3N	1,500			
	AdvanTex AX25-RT3N	625	6/11/12		

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

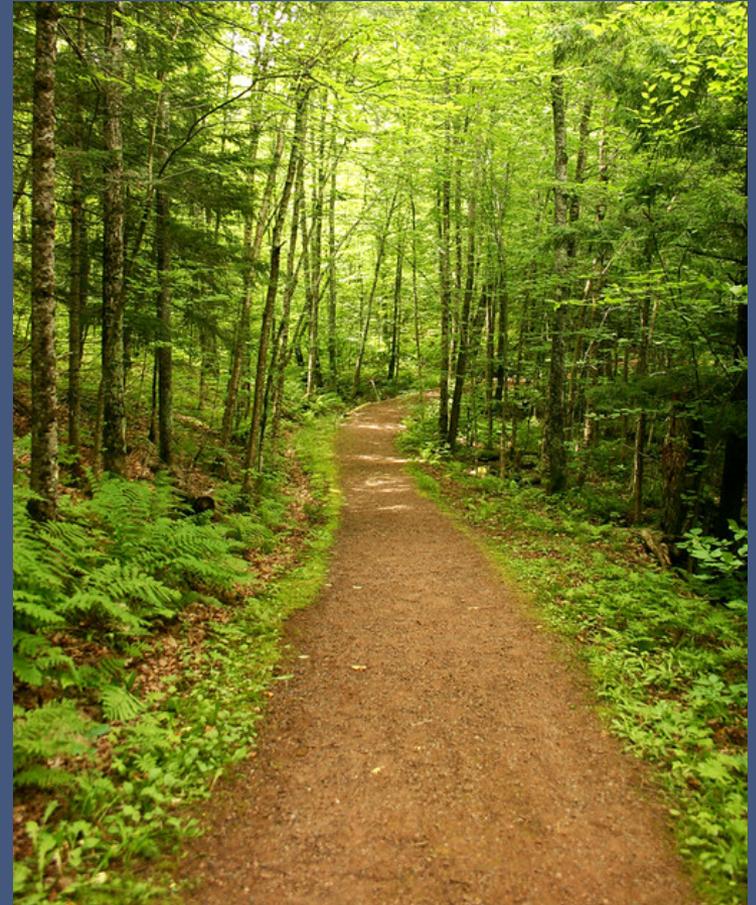
Examples of a Few Other States with Rules for Proprietary Products/ ETPS

State		
Idaho (TGM, not in Rule)	Proprietary wastewater treatment product	Extended treatment package system
Colorado	Proprietary distribution products	Proprietary treatment products
Minnesota	Proprietary distribution technologies	Proprietary treatment technologies
Oregon	Drainfield products	Alternative treatment Technologies
Washington	Proprietary distribution product	Proprietary treatment product

Path Forward

2019: Negotiations

Fall 2020 : Proposed Rule



Availability of Information

- Ongoing public comment opportunities and updates will be posted at www.deq.idaho.gov/58-0103-1901.
- To sign up for email notifications, contact Paula Wilson at paula.wilson@deq.idaho.gov.

Discussion

Objective:

- Discuss potential Rule content with regards to alternative systems
- Provide suggestions of states with effective and relevant rules for these systems





Thank you!

