



# Oregon

Kate Brown, Governor

Department of Environmental Quality

Western Region Eugene Office

165 East 7th Avenue, Suite 100

Eugene, OR 97401

(541) 686-7838

FAX (541) 686-7551

TTY 711

March 5, 2019

Dave Lowe  
Lowridge Onsite Technologies  
PO Box 1179  
Lake Stevens, WA 98258

RE: LOWeFLOW® LF-500 Treatment Standard 1

You applied to Oregon Department of Environmental Quality to list the above-referenced product as an approved alternative treatment technology. DEQ has reviewed your application, plans, specifications, and other required exhibits for the LOWeFLOW® system. The system's design flow rating is 500 gallons per day and your application was submitted requesting treatment standard 1 designation.

You provided third party NSF/ANSI testing data from an organization whose accreditation is specific to onsite wastewater treatment products certifying the product complies with all applicable DEQ rules. DEQ has reviewed these materials for compatibility with the standards and criteria found in Oregon Administrative Rules 340-071-0345. I am pleased to advise you that DEQ has found the following ATT system manufactured by Lowridge Onsite Technologies to meet the approval criteria for **Treatment Standard 1** when used as part of an onsite wastewater treatment system in Oregon:

LOWeFLOW® - LF-500 - Design Flow 500 gallons per day

Lowridge Onsite Technologies is authorized to manufacture, market, and distribute these ATTs for use in single family dwellings and commercial facilities in Oregon so long as the following conditions are met:

1. You must manufacture the ATT in compliance with DEQ's rules, approved plans and design specifications. Alteration of the ATT system design that might affect system performance must be approved by an ANSI accredited, third-party testing and certification organization and DEQ.
2. The approved version(s) of the plans are labeled LOWeFLOW® and are dated March 4, 2019.

3. Septic tanks and recirculation tanks. Tanks must be approved for use in Oregon and refer to DEQ-approved drawing for specific configuration. The ATT system must include one of the following:
  - a. Either a properly sized septic tank with a dosing tank, or
  - b. 1,500 gallon partitioned flow-through septic tank.
4. Per OAR 340-071-0345(6)(a), the system must be designed to prevent untreated waste passing into the absorption field if the plant malfunctions. The manufacturer has stated that the system is designed that if a malfunction occurs, sewage would surface before passing untreated or partially treated effluent to the soil absorption system.
5. An audible and visual alarm must activate in the event of electrical, mechanical equipment or hydraulic malfunction of the system.
6. You must train and certify maintenance providers on system maintenance for these ATTs. Individuals installing your system, and regulators in the county of installation, must be trained prior to installation of your products in Oregon, in accordance with the approved plan included in your application.
7. As the manufacturer of these products, it is your responsibility to assure that each assembled ATT delivered to the construction site is watertight. Assurance must be achieved by periodic testing of the ATT products for watertightness at the manufacturing facility.
8. Service contracts and inspection / service visits must meet or exceed the requirements of OAR 340-071-0345(14).
9. Unless otherwise authorized by DEQ, Lowridge Onsite Technologies must submit an annual manufacturer report. The report must include, but is not limited to:
  - a. A current list of each ATT sold in the State of Oregon for the reporting period, including the model number, serial number, and the property address where the ATT is located;
  - b. A current list of all maintenance providers certified by Lowridge Onsite Technologies; and
  - c. The material plan review fee in OAR 340-071-0140(5).
10. All other applicable rules and requirements within OAR 340-071 and 073 must be followed.

Pursuant to OAR 340-071-0345(2)(e), DEQ has the authority to remove ATTs from the approved list if DEQ determines that the requirements for approval are no longer satisfied, or if any of the following conditions have occurred:

- Ten percent or more of systems under 10 years of age fail;

- The ATT does not produce effluent quality equal to or better than Treatment Standard 1 requirements under normal operating conditions;
- The manufacturer fails to submit the annual report and annual compliance determination fee by the date specified by DEQ; or
- The manufacturer goes out of business.

DEQ's decision to list this ATT as approved does not constitute an endorsement of the product. Moreover, DEQ is not responsible for any situation that may result from improper use or misapplication of your product.

If you have any questions regarding this letter, please contact Randy Trox, [randall.trox@state.or.us](mailto:randall.trox@state.or.us), or by phone at (541) 687-7338.

Sincerely,



David Belyea, Manager  
Regional Environmental Solutions

Enclosures – approved plans

EC: All Contract County Offices

All DEQ Direct Service Offices