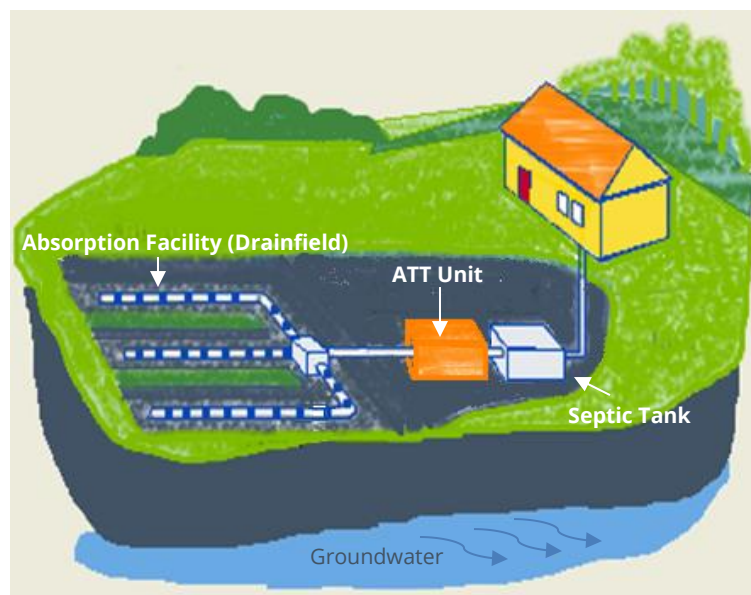


ALTERNATIVE TREATMENT TECHNOLOGY (ATT) SYSTEM GUIDE

Overview

Alternative Treatment Technologies (ATT) are decentralized wastewater treatment components that provide advanced wastewater treatment. They often supplement a septic tank and an absorption facility, such as a conventional drainfield or bottomless sand filter, and typically have an aerobic wastewater treatment element. The effluent from an ATT unit is designed to be purer than standard septic tank effluent, so it can be accompanied by a reduced size absorption facility. ATTs are required when at least one of the following conditions exists:

- The approval area is too limited to fit a conventional drainfield system;
- Soil conditions are poor and cannot adequately treat effluent in a conventional system;
- There is not enough separation from groundwater;
- Disinfection or nitrogen removal is required in order to protect sensitive water resources.



Oregon Department of Environmental Quality (DEQ) must approve the ATT manufacturer and model in order for it to be available for use in Deschutes County. The DEQ keeps a list of approved ATT's on their website: <https://www.oregon.gov/deq/Residential/Pages/Onsite-ATT.aspx>.

Operation and Maintenance Requirements

Prior to the issuance of an ATT installation permit, a copy of a maintenance agreement (contract) between the property owner and a DEQ certified maintenance provider is required to be submitted to the Deschutes County. It is the responsibility of the ATT owner to maintain an ongoing contract with a maintenance provider for the life of the system [OAR 340-071-0345(14)]. The maintenance provider is responsible for providing the following to Deschutes County on the property owner's behalf:

- An annual report that demonstrates the system has been properly maintained during the reporting year and is operating in accordance with the agent-approved design specifications, or the owner has applied for a repair permit;
- Payment of an annual report evaluation fee.



Community Development Department
117 NW Lafayette Street
Bend, Oregon 97703
www.deschutes.org/cd
(541) 388-6575

To request this information in an alternate format, please call 541-388-6575 or send an email to accessibility@deschutes.org.

Special Considerations

In addition to ATT operation and maintenance requirements, there are several special considerations regarding ATT ownership compared to a conventional septic system:

- **Not all ATT systems are equal.** Check the site-specific ATT Installation permit for which NSF/ANSI treatment standard is required. Each ATT's performance is rated as meeting either NSF/ANSI Treatment Standard I or Treatment Standard II.
- **Budget accordingly.** ATT systems often use equipment that is more complicated, such as blowers, pumps, and alarm floats, which is why regular inspections and maintenance are required. Sometimes maintenance requires the purchase of additional or replacement parts, adding to operational expenses.
- **Hire an approved installer and an approved maintenance provider.** In addition to being licensed and certified by DEQ, both ATT installers and maintenance providers must be certified by the manufacturer.
- **Be prepared for the alarm.** ATT systems are required to have a visual and audible alarm located in a conspicuous location within 50 feet of the ATT unit.

Application Requirements

In addition to as Onsite Wastewater System Application and complete plot plan, all ATT construction and installation permit applications require the following documents:

- ✓ Pump curve with selected pump model and hydraulic calculations used to determine Total Dynamic Head and Net Discharge
- ✓ Signed Operations and Maintenance Contract
- ✓ DEQ Approved Specification sheet/s for the specific manufacturer and model of the selected ATT

Inspections

In addition to the septic tank and absorption facility inspections, at least one inspection is required to confirm the ATT unit was installed properly.

1. Schedule an Initial Advanced Treatment Technology inspection (#7710) for ATT installations. This inspection is typically combined with a Pre-Cover inspection (#7020) or Squirt Test inspection (#7030).
2. Arrange for the contracted maintenance provider to conduct a Start-up inspection prior to occupying the property. The maintenance provider will provide Deschutes County with the required inspection report.

Schedule an Inspection:



Online via Oregon's [ePermitting system](https://aca.oregon.accela.com/oregon/)

<https://aca.oregon.accela.com/oregon/>



On your phone or tablet with Oregon's [ePermitting App](#). Search for Oregon inspections in the App store for your apple or android device



Call 888-299-2821 | You will need a site specific permit number and 4 digit inspection code for the type of inspection requested