

November 25, 2020

THORMAHLEN, STEVEN L 27763 212TH PL MAPLE VALLEY, WA 98038

RE: 247-20-001595-EVAL

54735 HUNTINGTON RD, BEND, OR 97707

Deschutes County Environmental Soils Division has reviewed your site evaluation application for an onsite wastewater treatment system on the property identified above. The site was evaluated on November 23, 2020, and was found suitable to install a "System" as defined in Oregon Administrative Rules for Onsite Wastewater Treatment Systems, Chapter 340, Division 71. The approved system for this site requires a nitrogen reducing treatment technology system discharging to a reduced size surface mounted bottomless sand filter system. For more information about the different types of systems, descriptions, design criteria, important links and diagrams, contact our office or visit our website at www.deschutes.org/cd. (Click on the Onsite Waste Water Treatment Systems link).

Minimum System Requirements:

Alternative Treatment Technology (ATT) System type:

Maximum Design flow gallons per day (gpd): 450 gpd

1,000 with 500 gallon dosing Tank Size:

 250 ft^2 Sand Filter size (ft²): **Maximum Depth:** 4 inches

CONDITIONS OF APPROVAL

Oregon Onsite Wastewater Treatment System Rules (OAR 340-071-0130(1)) state:

Deschutes County Environmental Soils Division "may not authorize installation or use of a system that is likely to pollute public waters or create a public health hazard. If, in the judgment of the agent, the minimum standards in this division will not adequately protect public waters or public health on a particular site, the agent must require a system to meet requirements that are protective. This may include but is not limited to ... using an alternative system."

Data and information produced during the La Pine National Decentralized Wastewater Demonstration Project shows that traditional onsite systems (standard, pressure distribution and sand filter systems) installed on individual sites pollute the groundwater under those sites to the extent that state groundwater quality and safe drinking water standards are exceeded. Cumulative impacts of this

pollution on individual sites include regional groundwater quality degradation and increased nutrient loading to rivers and streams of the region. Additionally, extensive groundwater sampling and modeling conducted by the Oregon Department of Environmental Quality (DEQ) and the US Geological Survey has identified specific standards for onsite systems in south Deschutes County that will protect and improve groundwater quality both on individual sites and on a regional basis.

DEQ has reviewed this area and determined a conventional onsite wastewater treatment system would cause a "likely adverse groundwater quality impact" as per DEQ's groundwater quality protection rules [OAR 340-040-0030(2)]. In addition, there is risk for degrading groundwater quality or groundwater beneficial uses.

Therefore, in order to protect drinking water quality in private wells and regional groundwater and surface water resources, the onsite system on this property must meet the following specifications:

- 1. The system serving this site must be an alternative system that achieves the highest level of nitrogen reduction achievable at time of permit application. Nitrogen reducing systems include Alternative Treatment Technologies (ATT) and Recirculating Gravel Filters designed for nitrogen reduction or an approved add-on unit designed for nitrogen reduction.
- 2. The system is sized for a maximum sewage flow of 450 gallons per day; the sizing for a one to four bedroom residence.
- 3. The area approved for the system is very specific. The land surface in the vicinity of the approved site must not be altered. Any alteration of the approved site or placement of a well within 100 feet of the approved site may invalidate this approval. Technical rule changes will not invalidate a favorable site evaluation, but may require use of a different kind of system.
- 4. A permit must be obtained from Deschutes County prior to the installation of the system. Application for a construction permit must be accompanied by an accurately drawn plan showing the layout and components of the system. The plans must also show the replacement area, proposed location of dwelling and other structures, driveways, wells, waterlines, property lines, and any other pertinent information.
- 5. This site evaluation approval does not guarantee that land development permits can be issued. When applicable, the applicant must obtain land use approval from the Deschutes County Planning Division before Deschutes County Environmental Soils can issue permits.
- 6. Additional items that are required for Alternative Treatment Technology system permit applications are:
 - a. A copy of the service contract between the authorized maintenance service provider and the property owner.
 - b. Information regarding the specific ATT with elevations of specific components such as the treatment unit, pump vaults, valves, floats, tanks and the soil absorption system.
 - c. Profile of the proposed system in a way that shows the State DEQ approved installation method proposed.
 - d. List of materials for the proposed system

Note: Each manufacturer certifies installers for their ATT systems.

7. This system is not eligible for a Pollution Reduction Credit in accordance with Deschutes County Code 11.12, Transferable Development Credit Program.

8. Additional requirements and/or comments: Maintain setbacks to property lines, wells, underground utilities, etc. There is a 25-foot setback that applies to the escarpment. A 50foot setback applies to the wetland. Installation shall take place within the approval area. A sand filter is required due to severe space limitations. The sand filter may be countersunk 4 inches.

REVIEW AVAILABLE

Site Evaluation Report Review: Pursuant to OAR 340-071, you may request a site evaluation report review if you believe this report to be in violation of Oregon Department of Environmental Quality (DEQ) rules. The DEQ conducts report reviews upon submission of the appropriate application materials including a written request that includes all information you have received from Deschutes County, the reason the report is in error including the specific Oregon Administrative Rules that conflict with the report, and the application fee.

The DEQ will review the county's report and visit the site to determine the report's compliance with the applicable rules. A variance from the rules may also be requested through the DEQ. For further information regarding a report review or a variance to DEQ rules, please contact the Oregon Department of Environmental Quality at 475 NE Bellevue Dr., Suite 110, Bend OR 97701, phone 541-388-6146.

If you have any questions, please call this office at 541-388-6519.

Sincerely.

ENVIRONMENTAL SOILS DIVISION

Kevin Hesson, REHS

Registered Environmental Health Specialist

KMH/mas



	SITE EVALUATION FIELD INSPECTION F	ORM
Applicant: Steven Thomasley	Site Evaluation # 247 - 20 - a	51595
Evaluator: Keyn Hosson	Date: 11/23/20 Parcel	
Subdivision: Lazy River	T 21 R 11 S 06 TL	LB
Suitable	Sketch/Not to Scale	Unsuitable
granded corine	See to the state of the state o	Pood Alain Door 1.55.7
20 = Z	. Active Astronaut	
System type approved: ATT to Initial ATT to SF Replacement ATT to SF Tank Size I wo gulan wy 500 gulan Special Conditions: Maintain Setto 25' setbalk that applies to the Shall take plea within the approximation	Min. Size 2505 att Max. Depth 4" Min. Size 2505 att Max. Depth 4" dosing Sewage Flow 450 gallone / day actes to property lives wells, unlegations will	Min. Depth O" Min. Depth O" Min. Depth O" hither, etc. There is a free welfard. Installation



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DEPTH	TEXTURE	COLOR	Notes on roots, structure, rock frag, redox, limiting layer type & depth
0-22	54	10/R 3/3	tight 2 may
22-36	LS	104R 3/3	Jufif, 2msBK, area is confected Jufif, 2msBK, ufc, gravels z 10%
36-56	gifs	104R 2/1	no roots, Sq , gravels = 25%, no redox observed
			area to west of hole is graveled, modified
0-28			Like 1
28-53			no redox observed
			area to the west of the hole is modified, graveled
1			
	4 34		0 201
andscape No lope:		-> escorpm	N3000W
ther site note			Aspect: Groundwater: Perment
omments:			