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DIRECTOR

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DEVELOPMENT SERVICES BUILDING
150 BEAVERCREEK ROAD OREGON CITY, OR 97045

October 8, 2019

Oregon Sewer & Drain
PO Box 1282
Silverton, OR 97381

IMPORTANT DOCUMENT – PLEASE READ CAREFULLY
This is not a septic construction permit.

Site: Township 3S Range 1E Section 04 Tax Lot 00601
NO SITUS

Application Number: SE044419

Results: Approved

To whom it may concern:

Onsite Wastewater Systems program staff have completed an evaluation at the property referenced above. The site that was prepared for this evaluation was found suitable for an Onsite Wastewater treatment system. A detailed report of this investigation is enclosed. Current minimum design standards for a FOUR bedroom single family residence are also included. This office can provide updated standards (fees may apply) for alternative developments or updated minimum standards as required by rule.

If you have any questions, feel free to contact me at tfuhriman@clackamas.us

Sincerely,

Tyler Fuhriman
Soil Scientist

Enclosures:
General Site Evaluation Information
Field Sheet
Construction Detail Sheet
Minimum Setback Requirements
CC:

phone: 503-742-4740

fax: 503-742-4550

www.clackamas.us/septic

General Site Evaluation Information

Please note that this approval is site specific to the area tested and does not address the feasibility of locating the system elsewhere on the property. The enclosed diagram indicates the limited area that appears suitable for this type of system. Please refer to the enclosed diagram for specifics concerning the dimensions and/or special conditions of the approved site.

Site evaluation report review. An applicant may request the Oregon Department of Environmental Quality to review a site evaluation report issued by an agent. The application for review must be submitted to the department in writing within 60 days after the site evaluation report issue date and must include the site evaluation review fee in OAR 340-071-0140(2). The department will review and approve or disapprove the site evaluation report.

This approval will remain valid until the system is installed and approved. Technical rule changes which take place after the date of this letter will not invalidate this approval, except that construction standards may be changed to meet codes applicable at the time of permit issuance. However, if conditions on this or adjacent properties are changed in any manner which would prohibit issuance of a permit because of a conflict with the applicable State rules, this approval will then be considered null and void.

The approval of this property and the conditions set forth in this letter in no way waives requirements as may be set by the zoning of the area. A permit to construct a system on this property will be subject to the review and approval of the County Planning Department. This Approval in no way waives any requirements set forth by other government agencies.

Minimum design requirements for an onsite wastewater treatment system

Work in the vicinity of the absorption area shall begin when unsaturated soils conditions are found to a depth of at least six inches below the bottom of the absorption facility

Tank:

- The septic tank will have a minimum liquid capacity of 1,000 gallons, and shall be equipped with a minimum of ONE watertight riser to the surface. (SEE NOTE 2)
 - a. An effluent lift pump may be required as part of this system.

Pretreatment:

- Your site requires installation of a pretreatment unit. Construction details must be included in the system design plans, along with any applicable standards found in this letter and OAR 340-071-290; 340-071-295; 340-071-0302 &/or 340-071-0345, Complete design plans must be submitted for review and approved before permit issuance.
 - a. Plans must include an operation and maintenance agreement in accordance with OAR 340-071-0130 (23)
 - b. Gravelless absorption method A minimum of 150 lineal feet of gravelless half pipe absorption trench is required with a maximum trench depth of 22 inches and a minimum trench depth of 18 inches. Trenches shall be constructed 1 foot wide on 10 foot minimum centers. Please reference OAR 340-071-0290(6) for comprehensive construction details

Drainfield:

A standard absorption trench is one option for this site. Please reference enclosed site map and OAR 340-071-0220 for comprehensive construction details. (SEE NOTE 1)

Conditions:

- Keep traffic, such as vehicles, heavy equipment, or livestock off the drainfield and replacement area.
- No part of the system can be installed within any utilities, right of way, or access easement.
- A replacement system layout meeting the minimum standards contained herein is required See attached field site map for approval area locations

NOTE 1: SOME SYSTEMS MAY REQUIRE A DIFFERENT TANK SIZE THAN INDICATED CONSULT INSTALLERS GUIDE OR THIS OFFICE WITH QUESTIONS

NOTE 2: SOME ALTERNATIVE DRAIN MEDIA PRODUCTS ALLOW FOR DIFFERENT CONSTRUCTION STANDARDS. CONSULT INSTALLERS GUIDE OR THIS OFFICE WITH QUESTIONS

TABLE 1
OAR 340-071-0220
MINIMUM SEPARATION DISTANCES

Items Requiring Setback	From Subsurface Absorption Area Including Replacement Area	From Septic Tank and Other Treatment Units, Effluent Sewer and Distribution Units
1. Groundwater Supplies and Wells.	*100'	50'
2. Springs:		
• Upgradient.	50'	50'
• Downgradient.	100'	50'
**3. Surface Public Waters:		
• Year round.	100'	50'
• Seasonal.	50'	50'
4. Intermittent Streams:		
• Piped (watertight not less than 20' from any part of the onsite system).	20'	20'
• Unpiped.	50'	50'
5. Groundwater Interceptors:		
• On a slope of 3% or less.	20'	10'
• On a slope greater than 3%:		
• Upgradient.	10'	5'
• Downgradient.	50'	10'
6. Irrigation Canals:		
• Lined (watertight canal).	25'	25'
• Unlined:		
• Upgradient.	25'	25'
• Downgradient.	50'	50'
7. Manmade Cuts Down Gradient in Excess of 30 Inches (top of downslope cut):		
• Which Intersect Layers that Limit Effective Soil Depth Within 48 Inches of Surface.	50'	25'
• Which Do Not Intersect Layers that Limit Effective Soil Depth.	25'	10'
8. Downgradient Escarpments:		
• Which Intersect Layers that Limit Effective Soil Depth.	50'	10'
• Which Do Not Intersect Layers that Limit Effective Soil Depth.	25'	10'
9. Property Lines.	10'	5'
10. Water Lines.	10'	10'
11. Foundation Lines of any Building, Including Garages and Out Buildings.	10'	5'
12. Underground Utilities.	10'	—
* 50-foot setback for wells constructed with special standards granted by WRD.		
**This does not prevent stream crossings of pressure effluent sewers.		

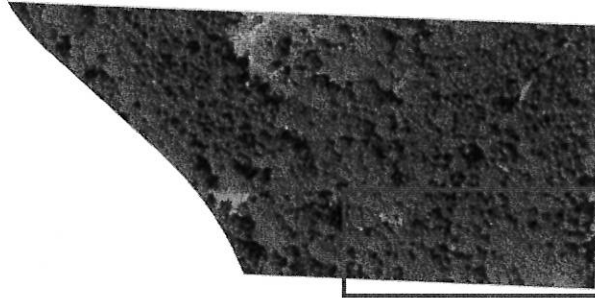
FIELD SHEET
SEPTIC AND ONSITE WASTEWATER SYSTEMS



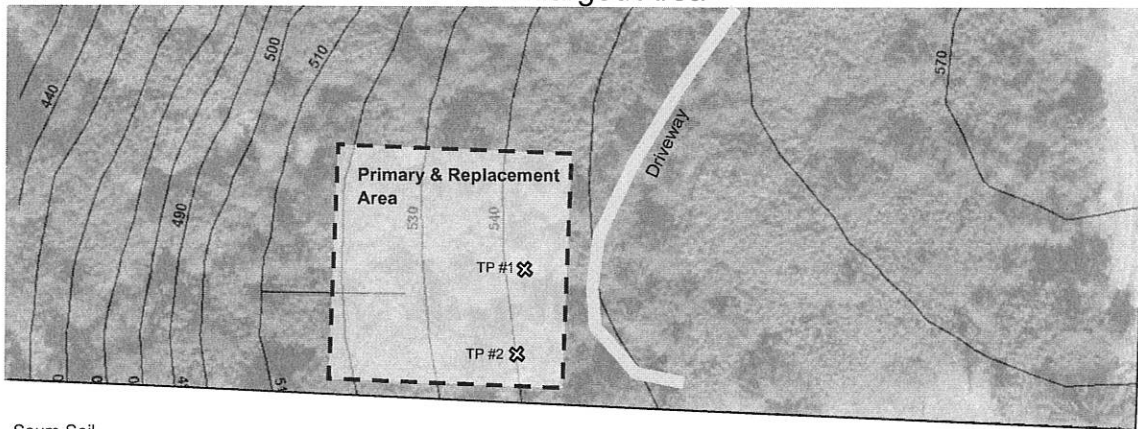
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Township 3S Range 1E Section 04 Tax Lot 00601 Acreage 10

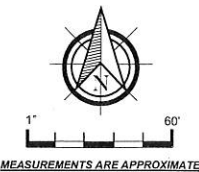
Soil Scientist T. FUHRIMAN, WWS Weather CLEAR 61° F Date 1 OCTOBER 2019



Enlarged Area



Saum Soil
Series



Approved for SAND FILTER / ATT TREATMENT STD1 Denied due to N/A

Proposed Facility FOUR BEDROOM SFR Septic/Dosing/Holding Tank Capacity 1000/500 gallons

Leach lines per 150gpd 150 lineal feet Total required 450' Drain field Distribution 1 EQUAL

Burial Depth 22 Max 18 Min Groundwater Interceptor N/A Depth Gravel Water Supply PRIVATE WELL

Comments: 1 Equal distribution via hydrosplitter **OR** pressure distribution via gravelless absorption method.

No wells Identified. Maintain 100' setback to all wells.

Sand filter required due to OAR 340-071 table 3. 21% slope requires ESD to be 38" deep.

Test Pit 1 **Slope: 21% SW**

N: 45.33214°

W: 122.69815°

Depth	Texture	Color	Redox/Conc	Consistency (Moist)	Structure	Roots	H2O, ESD, Conditions associated with saturation, etc.
0-7	GR sil	7.5yr 3/2		FR	2,vf,sbk	3vf-f, 2m-c	
7-13	GR sil	7.5yr 3/3		FR	2,f,sbk	2vf-c	
13-23	VGR sic	7.5yr 4/4		FR	2,f,sbk	2vf-f	
23-28	XGR sic	7.5yr 4/3		FI	1,m,sbk	2f	
28-52					m	1f	Fractured bedrock ESD at 28"

Test Pit 2 **Slope: 21% SW**

N: 45.33204°

W:122.69814°

0-7	GR sil	7.5yr 3/2		FR	2,vf,sbk	3vf-f, 2m-c	
7-13	GR sil	7.5yr 3/3		FR	2,f,sbk	2vf-c	
13-23	VGR sic	7.5yr 4/4		FR	2,f,sbk	2vf-f	
23-35	XGR sic	7.5yr 4/3		FI	1,m,sbk	2f-c	
34-43					m	1f	Fractured bedrock ESD at 34"

Test Pit 3 **Slope:**

N: °

W: °

Test Pit 4

Slope:

N: °

W: °

Test Pit 5

Slope:

N: °

W: °

Test Pit 6

Slope:

N: °

W: °
