



STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 BUREAU OF ENVIRONMENTAL HEALTH SERVICES  
 ONSITE WASTEWATER TREATMENT PROGRAM  
**SITE EVALUATION for ONSITE WASTEWATER TREATMENT SYSTEM**

APPLICATION # \_\_\_\_\_

<b>Property Owner:</b> _____		<b>Date:</b> _____	
<b>Site Address:</b> _____		<b>Mailing Address :</b> _____	
_____, MO		_____	
<b>Subdivision, Lot:</b> _____		<b>Day( ) - Evening( ) -</b>	
<b>County:</b> _____		<b>Legal Location:</b> 1/4 1/4 1/4 ,S ,T ,R	
<b>Residence - # Bedrooms:</b> _____ <b># People</b> _____		<b>Latitude:</b> _____ <b>Longitude:</b> _____	
<b>Business - Type:</b> _____		<b>Design flow:</b> _____ gpd; <b>System is:</b> New <input type="checkbox"/> Replacement <input type="checkbox"/> Repair <input type="checkbox"/>	

<u>SITE DIAGRAM</u>																			
<u>LEGEND</u>										<u>CROSS-SECTION</u>									

Site Diagram and Cross-Section : Show relative location of buildings, wells, roads, rock outcrops, depressions, sinkholes, location of soil observations, etc. Indicate the evaluated area(s) and direction of slope. (Property lines, easements, buried utilities, etc., are as observed, or as reported by property owner)



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**SOIL PROFILE DESCRIPTION**

Owner: \_\_\_\_\_

Date: \_\_\_\_\_

SOIL CHARACTERISTICS			Excavation Depth:					Pit (required for new installation) or Core #:							
Vegetation:			Parent Material:												
Suitability (S, PS, U)	Horizon		Munsell Color (moist)	Redoximorphic Features <sup>(2)</sup>	Texture		% Coarse Fragments by volume		Consis- -tence <sup>(4)</sup>	Structure	Roots /Pores <sup>(6)</sup>	Shrink /Swell	Soil Group	Application Rate	
	Desig- -nation	Depth / Boundary <sup>(1)</sup>			USDA <sup>(3)</sup>	% Clay	<3"	>3"						Conv. (Table 13)	LPP (Table 14)

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Notations used on Soil Profile Description  
**Boundary** distinctness: A-abrupt, C-clear, G-gradual; topography: S-smooth, W-wavy, I-irregular;  
**Redox Features** Report low chroma Munsell colors and iron and manganese concentrations indicative of soil drainage limitations;  
**Texture** s-sand, ls-loamy sand, sl-sandy loam, l-loam, sil-silt loam, si-silt, scl-sandy clay loam, cl-clay loam, sicl-silty clay loam, sc-sandy clay, sic-silty clay, c-clay; Designate estimated clay content for all horizons;  
**Consistence** (report moist consistence) moist: fr-friable, fi-firm, vfi-very firm; wet: ss-slightly sticky, s-sticky, vs-very sticky and sp-slightly plastic, p-plastic, vp-very plastic; dry: sh-slightly hard, h-hard, vh-very hard;  
**Structure** grade: 1-weak, 2-moderate, 3-strong; size: f-fine (thin if platy), m-medium, c-coarse (thick if platy); shape: ABK-angular blocky, SBK-subangular blocky, GR-granular, PL-platy, PR-prismatic, MA-massive;  
**Roots/Pores** abundance: f-few, c-common, m-many; size: vf-very fine, f-fine, m-medium, c-coarse.



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**SITE CLASSIFICATION for ONSITE SEWAGE SYSTEM – 19 CSR 20-3.060(2) & (7)**

**Owner:** \_\_\_\_\_ **Pit/Core #:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Suitability** See recommendations below S – Suitable; PS – Provisionally Suitable; U – Unsuitable; for conventional system.

<b>LANDSCAPE POSITION:</b> _____		Slope aspect: _____	
Flooding frequency: None <input type="checkbox"/> Rare <input type="checkbox"/> Occasional <input type="checkbox"/> Frequent <input type="checkbox"/>		Surface depression(s) in evaluated area? ___	
<b>&amp; TOPOGRAPHY</b> Percent Slope: _____		Slope Type: Uniform <input type="checkbox"/> Complex <input type="checkbox"/>	
Shape across (contour): _____		Shape down (profile): _____	
<b>SOIL CHARACTERISTICS</b> (See Profile Description for details)			
_____ <b>TEXTURE</b> to a depth of _____ inches		Depth of unsuitable texture _____ inches	
_____ <b>STRUCTURE</b> to a depth of _____ inches		Depth of unsuitable structure _____ inches	
<b>SOIL DRAINAGE</b> Type of water table: _____		Depth to water table _____ inches	
Surface drainage limitations: _____		Runoff slope length _____ feet	
_____ <b>SOIL THICKNESS</b> Depth of bedrock: _____ inches		Rock outcrops? _____	
_____ <b>RESTRICTIVE HORIZON</b> Type: _____		Depth: _____ Thickness: _____	
<b>AVAILABLE SPACE</b> Estimated space available: _____		_____	
Adequate for a conventional system? _____		An alternative system? _____ Replacement area? _____	
<b>OTHER FACTORS</b> Note any environmental hazards: _____			
High groundwater contamination potential? (If yes, indicate reason): _____			
Sinkhole <input type="checkbox"/> Rapid permeability <input type="checkbox"/> Depth to highly permeable bedrock <input type="checkbox"/> Fill material/depth <input type="checkbox"/>			
_____ <b>OVERALL</b> Notes: _____		_____	

Overall site classification will be determined by the lowest of the uncorrectable characteristics.

- **S** An overall site classification of **suitable** indicates soil and site conditions favorable for the operation of a conventional absorption system.
- **PS** Sites classified as **provisionally suitable** require some modifications and careful planning, design, and installation for a conventional system or alternative system to function satisfactorily.
- **U** Sites originally classified as **unsuitable** may possibly be reclassified as **provisionally suitable** according to subsection (7)(K).
- An **unsuitable** site may be used for soil absorption systems, provided engineering, hydrogeologic and soil studies indicate to the administrative authority that a conventional or alternative system could be expected to function satisfactorily. These sites may be reclassified as **provisionally suitable** upon meeting the requirements of the administrative authority according to subsection (6)(K).

**Recommendations\* associated with Provisionally Suitable or Unsuitable classifications:**

Trenches must not be dug when wet to prevent damaging soil/trench surfaces.

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Surface water diversion is needed.

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An interceptor drain should be installed upslope at a depth of \_\_\_\_\_ inches.

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Shallow or modified shallow placed trenches should be installed at a depth of \_\_\_\_\_ inches.

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An alternative/engineered system is needed to overcome site limitations.

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Owner: \_\_\_\_\_ Date: \_\_\_\_\_

**Comments/Recommendations:**

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\*Recommendations are to assist the property owner and their agents in complying with the standards, and are subject to approval by the administrative authority.

I, the undersigned, hereby certify that the site evaluation was made in accordance with the requirements of Sections 701.025-701.059 RSMo and 19 CSR 20-3.060 and 19 CSR 20-3.080, and that the data recorded is correct to the best of my knowledge.

\_\_\_\_\_ Print name      \_\_\_\_\_ OSE ID #      \_\_\_\_\_ Signature      \_\_\_\_\_ Date

**Important Recommendations for Installers and Homeowners:**

**Protect the absorption area** before and after construction. Do not drive over or store excavated materials on field area etc.

Shallow placed absorption systems utilize more permeable and better-aerated soil horizons.

Do not install soil absorption system when soil is wet. Redirect surface water, house guttering, and foundation drains away from absorption field.

Establish & maintain adequate vegetative cover over the field. Regularly inspect, maintain, and pump your sewage system.

Install water saving devices & practice water conservation. Check for and repair any water leaks as soon as discovered.

Spread out water use, such as laundry, throughout the week.

Restrict garbage disposal use.

Do not put fats or grease into the sewage system. Keep chemicals and hazardous wastes out of your system.

Use disinfectants and high strength cleaners sparingly.

Do not plan any building improvements, patios, etc. near the sewage system or repair area.

<b>Minimum Set-Back Distances</b>			
Based on <b>19 CSR 20-3.060(1)(D) Table 1</b>			
[See also (6)(D) for lagoons]			
<b>Minimum Distance from</b>	<b>Sewage Tank</b>	<b>Disposal Area</b>	<b>Lagoons</b>
	(feet)	(feet)	(feet)
Private water supply well	50	100	100
Public water supply well	300	300	300
Cistern	25	25	25
Spring	50	100	100
Classified stream or lake	50	50	50
Stream or open ditch	25	25	25
Property lines	10	10**	75
Building foundation	5	15	[100]
Basement	15	25	[100]
Swimming pool	15	15	
Pressure water line	10	10	10
Suction water line	50	100	100
Upslope interceptor drain	-	10	
Downslope interceptor drain	-	25	
Embankment or cuts	-	20	
Edge of sink holes	50	100	500
Other absorption system	-	20	20

\*\*Recommend 25 feet from downslope property line.