

Soils Report

Contact your local District Conservationist for site specific assistance

Septic Tank Absorption Fields - Dominant Condition

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 72 inches is evaluated. The ratings are based on soil properties, site features, and observed performance of the soils. Permeability, a high water table, depth to bedrock or to a cemented pan, and flooding affect absorption of the effluent. Large stones and bedrock or a cemented pan interfere with installation.

Unsatisfactory performance of septic tank absorption fields, including excessively slow absorption of effluent, surfacing of effluent, and hillside seepage, can affect public health. Ground water can be polluted if highly permeable sand and gravel or fractured bedrock is less than 4 feet below the base of the absorption field, if slope is excessive, or if the water table is near the surface. There must be unsaturated soil material beneath the absorption field to filter the effluent effectively. Many local ordinances require that this material be of a certain thickness.

The limitations are considered not limiting if soil properties and site features are generally favorable for the indicated use and limitations are minor and easily overcome; somewhat limiting if soil properties or site features are not favorable for the indicated use and special planning, design, or maintenance is needed to overcome or minimize the limitations; and very limiting if soil properties or site features are so unfavorable or so difficult to overcome that special design, significant increases in construction costs, and possibly increased maintenance are required.

Soil Survey: Shelby County, Kentucky

Survey Status: Published

Correlation Date: 06/01/1978

Distribution Date: 10/11/2002

Map Symbol	Soil Name	Rating	Dominant Component(s) and Reason(s)
BeB	BEASLEY SILT LOAM, 2 TO 6 PERCENT SLOPES	Very limited	Component - BEASLEY (90%) • Restricted permeability • Depth to bedrock
BeC	BEASLEY SILT LOAM, 6 TO 12 PERCENT SLOPES	Very limited	Component - BEASLEY (85%) • Restricted permeability • Depth to bedrock • Slope
BeD	BEASLEY SILT LOAM, 12 TO 20 PERCENT SLOPES	Very limited	Component - BEASLEY (80%) • Restricted permeability • Slope • Depth to bedrock
BfC3	BEASLEY SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED	Very limited	Component - BEASLEY (85%) • Restricted permeability • Depth to bedrock • Slope
Bo	BOONESBORO SILT LOAM	Very limited	Component - BOONESBORO (90%) • Flooding • Depth to bedrock

			<ul style="list-style-type: none"> • Restricted permeability
BsE	BRASSFIELD-BEASLEY COMPLEX, 20 TO 30 PERCENT SLOPES	Very limited	<ul style="list-style-type: none"> • Component - BRASSFIELD (50%) • Depth to bedrock • Slope • Restricted permeability • Component - BEASLEY (30%) • Slope • Restricted permeability • Depth to bedrock
CrB	CRIDER SILT LOAM, 2 TO 6 PERCENT SLOPES	Somewhat limited	<ul style="list-style-type: none"> • Component - CRIDER (90%) • Restricted permeability
DAM	DAM, LARGE EARTHEN	Not Rated	<ul style="list-style-type: none"> • Component - DAM (100%) • Not Rated; Slope • Not Rated; Fragments > 75mm
EcC	EDEN SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	Very limited	<ul style="list-style-type: none"> • Component - EDEN (85%) • Depth to bedrock • Slope
EdE3	EDEN FLAGGY SILTY CLAY, 20 TO 30 PERCENT SLOPES, SEVERELY ERODED	Very limited	<ul style="list-style-type: none"> • Component - EDEN (80%) • Restricted permeability • Depth to bedrock • Slope
EIA	ELK SILT LOAM, 0 TO 2 PERCENT SLOPES	Somewhat limited	<ul style="list-style-type: none"> • Component - ELK (90%) • Restricted permeability • Flooding
EIB	ELK SILT LOAM, 2 TO 6 PERCENT SLOPES	Somewhat limited	<ul style="list-style-type: none"> • Component - ELK (90%) • Restricted permeability
EIC	ELK SILT LOAM, 6 TO 12 PERCENT SLOPES	Somewhat limited	<ul style="list-style-type: none"> • Component - ELK (85%) • Restricted permeability • Slope
FaC	FAYWOOD SILT LOAM, 6 TO 12 PERCENT SLOPES	Very limited	<ul style="list-style-type: none"> • Component - FAYWOOD (85%) • Depth to bedrock • Restricted permeability • Slope
FdD	FAYWOOD SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	Very limited	<ul style="list-style-type: none"> • Component - FAYWOOD (80%) • Depth to bedrock • Restricted permeability • Slope
LoB	LOWELL SILT LOAM, 2 TO 6 PERCENT SLOPES	Very limited	<ul style="list-style-type: none"> • Component - LOWELL (90%) • Restricted permeability • Depth to bedrock
LoC	LOWELL SILT LOAM, 6 TO 12 PERCENT SLOPES	Very limited	<ul style="list-style-type: none"> • Component - LOWELL (85%) • Restricted permeability • Depth to bedrock • Slope
LsC3	LOWELL SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERELY ERODED	Very limited	<ul style="list-style-type: none"> • Component - LOWELL (85%) • Restricted permeability • Depth to bedrock • Slope
LWE	LOWELL-EDEN ASSOCIATION, STEEP	Very limited	<ul style="list-style-type: none"> • Component - LOWELL (40%) • Slope

			<ul style="list-style-type: none"> • Depth to bedrock • Restricted permeability Component - EDEN (25%) <ul style="list-style-type: none"> • Restricted permeability • Depth to bedrock • Slope
Mc	MCGARY SILT LOAM	Very limited	Component - MCGARY (90%) <ul style="list-style-type: none"> • Restricted permeability • Depth to saturated zone
Ne	NEWARK SILT LOAM	Very limited	Component - NEWARK (90%) <ul style="list-style-type: none"> • Flooding • Depth to saturated zone • Restricted permeability
NhB	NICHOLSON SILT LOAM, 2 TO 6 PERCENT SLOPES	Very limited	Component - NICHOLSON (90%) <ul style="list-style-type: none"> • Depth to cemented pan • Depth to saturated zone • Restricted permeability
NhC	NICHOLSON SILT LOAM, 6 TO 12 PERCENT SLOPES	Very limited	Component - NICHOLSON (85%) <ul style="list-style-type: none"> • Depth to cemented pan • Depth to saturated zone • Restricted permeability
No	NOLIN SILT LOAM	Very limited	Component - NOLIN (90%) <ul style="list-style-type: none"> • Flooding • Depth to saturated zone • Restricted permeability
OtB	OTWELL SILT LOAM, 2 TO 6 PERCENT SLOPES	Very limited	Component - OTWELL (90%) <ul style="list-style-type: none"> • Depth to cemented pan • Depth to saturated zone • Restricted permeability
ShB	SHELBYVILLE SILT LOAM, 2 TO 6 PERCENT SLOPES	Very limited	Component - SHELBYVILLE (90%) <ul style="list-style-type: none"> • Restricted permeability
ShC	SHELBYVILLE SILT LOAM, 6 TO 12 PERCENT SLOPES	Very limited	Component - SHELBYVILLE (85%) <ul style="list-style-type: none"> • Restricted permeability • Slope
W	WATER	Not Rated	Component - WATER (100%) <ul style="list-style-type: none"> • Not Rated; Slope • Not Rated; Fragments > 75mm
WoB	WOOLPER SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES	Very limited	Component - WOOLPER (90%) <ul style="list-style-type: none"> • Restricted permeability
WpF	WOOLPER-FAIRMOUNT COMPLEX, 30 TO 65 PERCENT SLOPES	Very limited	Component - WOOLPER (55%) <ul style="list-style-type: none"> • Slope • Restricted permeability Component - FAIRMOUNT (35%) <ul style="list-style-type: none"> • Depth to bedrock • Slope • Content of large stones