

INVENTORY & EVALUATION

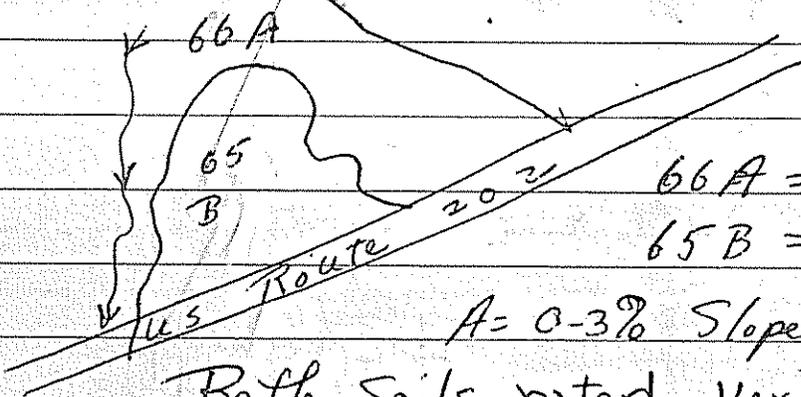
INDIVIDUAL  
GROUP  
UNIT OF GOVERNMENT

REQUESTED BY Charles Morton, Plumbing Inspector  
City of Augusta

LOCATION Cider Mill Trailer Park  
Rt # 202

ASSISTED BY David C. Chase, District Conservationist DATE 6-27-72

SITUATION: Trailer Park with Septic Sewage field



66A = Scantic Silt loam  
65B = Buxton " "

A = 0-3% Slope, B = 3-8% Slope

Both soils rated Very Poor for

~~House Bldg with~~ Trailer Parks including  
(or with) Septic Sewage fields

according to the "Soil Suitability Guide for Land Use  
Planning in Maine" Misc. Publication 667 (Rev)  
Me Agric, Exp Sta, Feb '67

SUGGESTED SOLUTION(S):

Septic Sewage Fields will not work in  
this soil

David C. Chase

Soil Conservation Service  
Federal Bldg. & Post Office  
40 Western Avenue  
Augusta, Maine 04330

\* Circle appropriate category.

State: Maine Date: October 1968 Soil: Scantic silt loam

TENTATIVE-Not coordinated and for limited local use only.

Map Symbol: 66

These soils are deep poorly drained silt loams over very firm marine and lacustrine deposits of silts and clays. These soils occur in small depressions and nearly level to gently undulating lowlands of the coastal and inland waterways. The Scantic soils generally contain no coarse fragments greater than 2 mm. They have 12 inches to 16 inches of grayish brown silty surface layer that is underlain by a silty clay loam or silty clay subsoil. Below the subsoil is a very firm silt and clay substratum. These marine and lacustrine deposits generally range from 6 to 20 feet thick. The water table is about 1 foot or less below the surface for 9 months each year. Slopes range from 0-8%. Permeability is very slow. The soil reaction ranges from slight to strongly acid, but is usually neutral at depths of three feet and below. Natural fertility is low. Moisture for plants is very high to excessive. Susceptibility to frost is severe. Compressibility is slight. Shear strength is low. Workability is poor. Bearing ratio is low. The soil, subsoil, and substratum is highly sticky and plastic especially when wet. It ranges from organic silts and clay (OL, OH) in the surface to silts and clays (ML, CL, MH, CH) in the subsoil and substratum.

ENGINEERING INTERPRETATIONS

Estimated Chemical and Physical Properties

General Soil Profile (Inches)	Classification			% of Material Passing			Permeability Inches per hr.	Available Water Capacity in/in	Soil Reaction (pH)	Shrink Swell Potential
	USDA Texture	Unified	AASHO	#4	#10	#200				
0-13	silt loam	OL, OH, ML, MH	A-4,5 A-7	100	100	85-100	0.20-0.63	0.25-0.30	5.0-6.5	Low
13-60	silty clay & clay	MH, MEL, CL, CH	A-4,6 A-7	100	100	90-100	< 0.20	0.12-0.20	5.5-6.5	Low

Suitability as a source of roadfill is poor; the material is not suitable as a source of sand and gravel; the material is not suitable as a source of roadfill.

SOIL LIMITATIONS FOR COMMUNITY PLANNING

Use	Slope	Limitation	Major Factors Affecting Use
Septic Sewage Disposal	A,B	Very Severe	High water table; very slow permeability.
Lagoon Sewage Disposal	A B	Slight Moderate	Steepness of slope.
Dumps and Junk Yards	A,B	Severe	High water table; excess wetness; surface stream pollution; poor trafficability.
Sanitary Land Fill	A,B	Very Severe	High water table; excess wetness; surface stream pollution; poor trafficability and workability.
Earth Covered Fallout Shelters	A,B	Very Severe	High water table; excess wetness; difficult to drain; high frost susceptibility; low bearing ratio.
House Bldg. with Septic Sewage Disposal (includes basement)	A,B	Very Severe	High water table; excess wetness; very slow permeability; high frost susceptibility; low shear strength and bearing ratio.
House Bldg. with Public Sewage Disposal (includes basement)	A,B	Severe	High water table; excess wetness; high frost susceptibility; low shear strength and bearing ratio.
Pipe & Sewer Lines - Const. & Maintenance	A,B	Severe	High water table; heavy clay substratum; low shear strength; low bearing ratio.
Cemeteries	A,B	Severe	High water table; heavy clay substratum; seasonal wetness.
Excavations	A,B	Very Severe	High water table; sticky and plastic substratum.

**SOIL LIMITATIONS FOR RECREATION DEVELOPMENT**

Use	Slope	Limitation	Major Factors Affecting Use
Wilderness Tent Sites	A,B	Very Severe	High water table; slow surface runoff; excess seasonal wetness.
Tenting & Picnic Areas (Intensive)	A,B	Very Severe	High water table; slow surface runoff; very slow permeability; excess wetness.
Trailer Park Sites	A,B	Very Severe	High water table; slow surface runoff; very slow permeability; high road maintenance; excess wetness.
Camp & Cottage Sites	A,B	Very Severe	High water table; slow surface runoff; very slow permeability; excess wetness.
Playing Fields	A,B	Very Severe	Excess wetness; slow surface runoff; poor workability.
Shooting Ranges	A,B	Very Severe	Excess wetness; slow surface runoff; poor workability.
Golf Courses	A,B	Very Severe	Excess wetness; slow surface runoff; poor workability.
Ski Slopes	A,B	Very Severe	Lacks sufficient slope.

**SOIL LIMITATIONS FOR FARMING**

Use	Slope	Limitation	Major Factors Affecting Use
Cultivated Crops: Corn, peas, oats	A,B	Severe	High water table; slow surface runoff; excess wetness; poor workability.
Potatoes	A,B	Very Severe	High water table; slow surface runoff; excess wetness; poor workability.
Sugar Beets	A,B	Very Severe	High water table; shallow rooting zone; slow surface runoff; excess wetness; poor workability.
Group I-Forage Alfalfa-Brome	A,B	Very Severe	High water table; shallow rooting zone; slow surface runoff; excess wetness; poor workability.
Group II-Forage Red Clover-Timothy	A,B	Severe	High water table; slow surface runoff; excess wetness; poor workability.
Orchards-Apples	A,B	Very Severe	High water table; shallow rooting zone; poor air drainage.
Land Use Capability	A,B		Wetness.

**SOIL LIMITATIONS FOR WILDLIFE HABITAT**

Use	Slope	Limitation	Major Factors Affecting Use
Openland Wildlife	A,B	Moderate	Excess wetness; management difficult.
Woodland Wildlife	A,B	Slight	
Wetland Wildlife	A,B	Slight	

**SOIL LIMITATIONS FOR SELECTED FARM AND NON-FARM USES**

Use	Slope	Limitation	Major Factors Affecting Use
Highway Location	A,B	Severe	High water table; excess wetness; high frost susceptibility; low shear strength; low bearing ratio.
Pond Reservoir Area	A,B	Slight	
Pond Embankment	A,B	Moderate	High silt content-moderate compaction properties; erodible on steep slopes.
Agricultural Drainage	A,B	Very Severe	Heavy clay subsoil; very slow permeability; lateral water movement.
Terraces & Diversions	A,B	Moderate	Sticky and plastic substratum; construction difficult.
Waterways	A,B	Moderate	Sticky and plastic substratum; construction difficult.
Irrigation	A,B	Very Severe	Excess wetness most of year; slow infiltration.
Corrosivity			Moderate for concrete; high for steel.

UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, in cooperation with  
 MAINE AGRICULTURAL EXPERIMENT STATION, UNIVERSITY OF MAINE and MAINE SOIL AND WATER  
 CONSERVATION COMMITTEE -- National Cooperative Soil Survey - USA