



Tax Map ID: 103.04-1-25.300

Soil Analysis Report

SOIL COMPOSITION SUMMARY:

Soil Type:	Percent of Parcel:	Acres
Lima loam, 0 to 3 percent slopes	100.0%	0.860



SOIL DESCRIPTION: Lima loam, 0 to 3 percent slopes

Parent Material: loamy till derived mainly from limestone and calcareous shale

Drainage Condition: Moderately well drained **Hydric Classification:** Not Hydric

Permeability: Moderately High **Erodibility:** High

Farmland Importance: All areas are prime farmland **Hydrologic Soil Group:** C/D

Depth to Water Table (cm): 51.000 **Tolerable Soil Loss (tons/acre/year):** 5.00

Building Site Development

Corrosion of Concrete Risk: Low **Corrosion of Steel Risk:** High

Dwellings With Basements: Very limited **Dwellings Without Basements:** Somewhat limited

Lawns, Landscaping, Golf: Somewhat limited **Local Roads and Streets:** Somewhat limited

Shallow Excavations: Very limited **Unpaved Roads and Streets:** Somewhat limited

Small Commercial Buildings: Somewhat limited

Construction Materials

Gravel Source: Improbable **Road Fill Source:** Fair

Sand Source: Improbable **Reclamation Material:** Fair

Topsoil Source: Fair

Disaster Recovery Planning

Catastrophic Mortality, Large Animal Disposal in PIT: Very limited

Catastrophic Mortality, Large Animal Disposal in TRENCH: Very limited

Rubble and Debris Disposal for Large-Scale Event: Severely limited

Composting Medium and Final Cover: Fair **Clay Liner Material Source:** Poor

Composting Facility - Subsurface: Very limited **Composting Facility - Surface:** Very limited

Land Management

Construction Limitations for Haul Roads and Log Landings: Moderate

Forestland Harvest Equipment Operability: Moderately suited

Soil Rutting Hazard by Forestry Equipment: Severe

Erosion Hazard (Off-Road, Off-Trail): Slight **Erosion Hazard (Road, Trail):** Slight

Mechanical Site Prep (Deep): Well suited **Mechanical Site Prep (Surface):** Well suited

Potential for Damage by Fire: Low **Potential for Seedling Mortality:** Low

Suitability for Hand Planting: Well suited **Suitability for Log Landings:** Moderately suited

Suitability for Mechanical Planting: Well suited **Suitability for Roads (Natural):** Slight

Ground Penetrating Radar: Low penetration

Recreational Development

Camp Areas: Somewhat limited **Off-Road Motorcycle Trails:** Somewhat limited

Paths and Trails: Somewhat limited **Picnic Areas:** Somewhat limited



Sanitary Facilities

Daily Cover for Landfill: Somewhat limited **Septic Tanks Absorption Fields:** Somewhat limited
Sanitary Landfill (Area): Very limited **Sanitary Landfill (Trench):** Very limited
Sewage Lagoons: Very limited

Soil Chemical Properties

Calcium Carbonate (CaCO₃): 18.00 **Cation-Exchange Capacity (CEC-7):** 5.40
Electrical Conductivity (EC): 0.00 **Effective Cation-Ion Exchange Capacity (ECEC):**
pH (1 to 1 Water): 8.10 **Gypsum:**
Sodium Adsorption Ratio:

Soil Erosion Factors

K Factor, Rock Free: 0.55 **Wind Erodibility Group:** 5.00
T Factor: 5.00 **Wind Erodibility Index:** 56.00

Soil Physical Factors

Available Water Supply, 0-25 cm: 4.95 **Available Water Supply, 0-50 cm:** 8.70
Available Water Supply, 0-100 cm: 15.83 **Available Water Supply, 0-150 cm:** 22.76
Available Water Capacity: 0.15 **Available Water Storage:** 27.53
Linear Extensibility: 1.50 **Liquid Limit:** 26.70 **Plasticity Index:** 9.00
Percent Sand: 41.90 **Percent Clay:** 14.40 **Percent Silt:** 43.70
Organic Matter: 0.83 **Surface Texture:** Loam
Bulk Density, One-Third Bar: 1.59 **Saturated Hydraulic Conductivity:** 3.83
Water Content, 15 Bar: 8.80 **Water Content, One-Third Bar:** 22.20

Soil Qualities and Features

AASHTO Group Classification (Surface): A-6 **Frost Action:** Moderate
Depth to a Selected Soil Restrictive Layer: 201.00 **Frost-Free Days:** 163.00
Depth to Any Soil Restrictive Layer: 201.00 **Representative Slope:** 1.70

Vegetative Productivity (Yields of Non-Irrigated Crops)

Alfalfa (tons): 5.50 **Corn (bu):** 140.00 **Corn Silage (tons):** 24.00
Oats (boxes): 95.00 **Grass Hay (tons):** **Grass-Legume Hay (tons):**
Pasture (AUM): 8.50 **Soybeans (bu):** 45.00 **Wheat (bu):**
Winter Barley (bu): 50.00 **Winter Wheat (bu):** 55.00

Forest Productivity (Cubic Feet per Acre per Year)

American Bass: **Eastern White Cedar:** **Red Maple:**
American Beech: **Eastern White Pine:** **Sugar Maple:**
Black Cherry: **Northern Red Oak:** **Tuliptree:**
White Ash:



Waste Management

Disposal of Wastewater by Irrigation:	Very limited
Disposal of Wastewater by Rapid Infiltration:	Very limited
Land Application of Municipal Sewage Sludge:	Very limited
Manure and Food-Processing Waste:	Very limited
Overland Flow Treatment of Wastewater:	Very limited
Slow Rate Treatment of Wastewater:	Very limited

Water Features

Depth to Water Table: 51.00	Ponding Frequency Class: None
Flooding Freq. Class: None	

Water Management

Embankments, Dikes and Levees:	Very limited
Excavated Ponds (Aquifer-Fed):	Very limited
Irrigation, General:	Not rated
Irrigation, Sprinkler (Close Spaced Drops):	Not Rated
Irrigation, Sprinkler (General):	Not Rated
Irrigation, Micro (Above Ground):	Not Rated
Irrigation, Micro (Subsurface Drip):	Not Rated
Irrigation, Surface (Graded):	Not Rated
Irrigation, Surface (Level):	Not Rated
Pond Reservoir Areas:	Somewhat limited
Storm Water Management - Infiltration (NY):	Most limited
Storm Water Management - Ponds (NY):	Least limited
Storm Water Management - Wetlands (NY):	Least limited



