

**MeE: Merrimac fine sandy loam, 25 to 50 percent slopes**

The Merrimac component makes up 85 percent of the map unit. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. This component is on dissected terraces on river valleys. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches.

|                                         |                      |                                      |
|-----------------------------------------|----------------------|--------------------------------------|
| Important farmland classification: NPSL | Land capability: 7 e | Vermont Agricultural Value Group: 11 |
|-----------------------------------------|----------------------|--------------------------------------|

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIe

This unit is moderately suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The rapid permeability in the substratum and slopes greater than 20 percent are the primary concerns. Backfilling absorption trenches and beds with at least one foot of finer textured material, or other site modifications, may be necessary to slow the percolation rate enough to allow for thorough filtering of effluent. Cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

| PHYSICAL and CHEMICAL PROPERTIES |            |                 |            |                    |                      |                      | EROSION FACTORS |     |   |
|----------------------------------|------------|-----------------|------------|--------------------|----------------------|----------------------|-----------------|-----|---|
| Soil name                        | Depth (In) | Typical texture | Clay (Pct) | Soil reaction (pH) | Permeability (In/Hr) | Organic matter (Pct) | Kw              | Kf  | T |
| Merrimac                         | 0-6        | FSL             | 3-7        | 4.5 - 6.0          | 2-6                  | 1.0-5.0              | .28             | .28 | 3 |
|                                  | 6-23       | FSL             | 1-3        | 4.5 - 6.0          | 2-20                 | 0.5-3.0              | .32             | .32 |   |
|                                  | 23-60      | GRV-S           | 0-3        | 4.5 - 6.0          | 6-20                 | 0.0-1.0              | .02             | .02 |   |

| WATER FEATURES |                  |                                           |           |          |           | SOIL FEATURES |              |                                    |
|----------------|------------------|-------------------------------------------|-----------|----------|-----------|---------------|--------------|------------------------------------|
| Soil name      | Hydrologic group | Depth to seasonal high water table (Feet) | Flooding  |          | Ponding   |               | Hydric soil? | Depth to bedrock (range in inches) |
|                |                  |                                           | Frequency | Duration | Frequency | Duration      |              |                                    |
| Merrimac       | A                | ---                                       | None      |          | None      |               | No           | ---                                |

| LAND USE LIMITATIONS |                           |              |           | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|--------------|-----------|-------------------------|--------------|
| Soil name            | Land use                  | Rating       | Reason ** | Crop name               | Yield / acre |
| Merrimac             | Dwellings with basements: | Very limited | Slope     |                         |              |
| Merrimac             | Pond reservoir areas:     | Very limited | Seepage   |                         |              |

| WOODLAND MANAGEMENT |                            |               |                   |                                                                                     |
|---------------------|----------------------------|---------------|-------------------|-------------------------------------------------------------------------------------|
| Soil name           | Management concern         | Rating        | Reason            | Vermont natural communities                                                         |
| Merrimac            | Harvest equip operability: | Poorly suited | Slope             | White Pine-Red Oak-Black Oak Forest,<br>White Pine-Northern Hardwood Forest Variant |
| Merrimac            | Road suitability:          | Poorly suited | Slope             |                                                                                     |
| Merrimac            | Erosion hazard (off-road): | Severe        | Slope/erodibility |                                                                                     |