

Subaqueous Soils Committee Report

2010 Northeast Cooperative Soil
Survey Conference

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Updates

- Subaqueous Soil Workshop in Rhode Island
August 2010
- Subaqueous Soil Methods Manual in progress
by Rhode Island

Proposals

1) Subaqueous drainage class

- Free water is at or above the soil surface. The occurrence of internal free water is permanent having a positive water potential at the soil surface for more than 21 hours of each day. Peraquic feature - all soil layers are permanently saturated

Proposals

2) si suffix symbol

- si presence of sulfides

This symbol indicates the presence of sulfides in mineral or organic horizons. Sulfidic horizons typically have hues of N, 10Y, 5GY, or 5Y, values of 2.5, 3, or 4, and chroma 0 or 1 and have a sulfidic odor when first exposed to air. Sulfidic materials are geologic or pedogenic and are formed in a permanently saturated environment.

Proposals

3) Shelly modifier

- Shell Fragments: hard remains of the protective outer covering of aquatic animals composed primarily of calcium carbonate such as mollusks (e.g. clams, oysters, or snails) or coral fragments; fragments may be the entire covering or broken pieces greater than 2 mm.

Proposals

- 4) Satiated (0 bar) bulk density column in NASIS
 - The oven dried weight of the less than 2 mm soil material per unit volume of soil at a water tension of 0 bar.

- 5) 5:1 Conductivity column in NASIS
 - The electrical conductivity of a 5:1 by volume mixture of soil to water.