## Major Land Resource Area 144A New England and Eastern New York Upland, Southern Part

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## **Ecological site keys**

## 144A PES Key

- 1a. Soils not permanently submerged in water
  - 2a. Soils native, not anthropogenic (Not Human Altered Human Transported [HAHT] 3a. Soils without organic layer ("O" horizon) or organic layer < 40 cm (16") in thickness –Mineral Soils</p>
    - 4a. Parent material of glaciated nature; glaciolacustrine, glaciofluvial, or glacial till (not alluvium)
      - 5a. Glaciated Parent material water-deposited (glaciofluvial, glaciolacustrine)
        - 6a. Glaciated meltwater fluvial deposits (glaciofluvial/outwash)
          - 7a. Soils well-drained to excessively well drained
            - 8a. Soils somewhat excessively drained to excessively drained 9a. Soils nutrient rich; higher base saturation Semi-rich Dry Outwash ... F144AY021MA Semi-Rich Dry Outwash 9b. Soils not nutrient rich; lower base saturation Dry Outwash ... F144AY022MA Dry Outwash
            - 8b. Soils well drained
              - 10a. Soils nutrient rich; higher base saturation Semi-rich Moist Outwash ... F144AY025MA Semi-Rich Moist Outwash
              - 10b. Soils not nutrient rich; lower base saturation
                11a. Soils without eolian mantle (loess) Well Drained
                Outwash ... F144AY023CT Well Drained Outwash
                11b. Soils with eolian mantle (loess) Well Drained
                Eolian Outwash ... F144AY024NY Well Drained Eolian
                Outwash
          - 7b. Soils moderately well-drained to very poorly drained

12a. Soils moderately well drained

13a. Soils nutrient rich; higher base saturation – Semi-rich Moist Outwash ... F144AY025MA – Semi-Rich Moist Outwash

13b. Soils not nutrient rich; lower base saturation

14a. Surface texture silty – Moist Silty Outwash ... F144AY026CT – Moist Silty Outwash

14a. Surface texture sandy – Moist Sandy Outwash ... F144AY027MA – Moist Sandy Outwash

12b. Soils poorly to very poorly drained

15a. Soils poorly drained

16a. Soils nutrient rich; higher base saturation – Semirich Wet Outwash ... F144AY029NY – Semi-Rich Wet Outwash

16b. Soils not nutrient rich; lower base saturation – Wet Outwash ... F144AY028MA – Wet Outwash

15b. Soils Very Poorly Drained

17a. Soils nutrient rich; higher base saturation – Semirich Very Wet Outwash ... F144AY030NY – Semi-Rich Very Wet Outwash

17b. Soils not nutrient rich; lower base saturation – Very Wet Outwash ... F144AY031MA – Very Wet Outwash

6b. Glaciated lakewater deposits (glaciolacustrine)

18a. Soils well drained – Well Drained Lake Plain ... F144AY017NH – Well Drained Lake Plain

18b. Soils moderately well drained to very poorly drained

19a. Soils moderately well drained and somewhat poorly drained

- Moist Lake Plain ... F144AY018NY - Moist Lake Plain

19b. Soils poorly or very poorly drained

20a. Soils poorly drained – Wet Lake Plain ... F144AY019NH – Wet Lake Plain

20b. Soils very poorly drained – Very Wet Coastal Lake Plain ... F144AY020MA – Very Wet Coastal Lake Plain

5b. Glaciated parent material ice-deposited (glacial till)

21a. Soils well drained to excessively drained

22a. Soils somewhat excessively to excessively drained

23a. Soils shallow (< 50cm) to bedrock – Shallow Dry Till

Uplands ... F144AY033MA – Shallow Dry Till Uplands 23b. Soils moderately deep or deep to bedrock – Dry Till Uplands ... F144AY032NH – Dry Till Uplands

22b. Soils well drained

24a. Soils nutrient rich; higher base saturation

25a. Soils shallow (< 50cm) to bedrock – Shallow Semi-rich Well Drained Till Uplands ... F144AY035MA – Shallow Semi-Rich Well Drained Till Uplands

25b. Soils moderately deep or deep to bedrock – Semi-rich Well Drained Till Uplands ... F144AY036NY – Semi-Rich Well Drained Till Uplands

24b. Soils not nutrient rich; lower base saturation

26a. Soils moderately deep to densic contact -Well Drained Dense Till Uplands ... F144AY007CT – Well Drained Dense Till Uplands

26b. Soils deep to contact – Well Drained Till Uplands ... F144AY034CT – Well Drained Till Uplands

21b. Soils moderately well to very poorly drained

27a. Soils moderately well drained

28a. Soils nutrient rich; higher base saturation – Semi-rich Moist Till Uplands ... F144AY038NY – Semi-Rich Moist Till Uplands

28b. Soils not nutrient rich; lower base saturation

29a. Soils moderately deep to densic contact – Moist Dense Till Uplands ... F144AY037MA – Moist Dense Till Uplands 29b. Soils deep to contact – Moist Till Uplands ... F144AY008CT – Moist Till Uplands

27b. Soils poorly to very poorly drained

30a. Soils poorly drained

31a. Soils nutrient rich; higher base saturation – Semi-rich Wet Till Depressions ... F144AY039NY – Semi-Rich Wet Till Depressions

31b. Soils not nutrient rich; lower base saturation – Wet Till Depressions ... F144AY009CT – Wet Till Depressions

30b. Soils very poorly drained

32a. Soils nutrient rich; higher base saturation – Semi-rich Very Wet Till Depressions ... F144AY040NY – Semi-Rich Very Wet Till Depressions

32b. Soils not nutrient rich; lower base saturation – Very Wet Till Depressions ... F144AY041MA – Very Wet Till Depressions

4b. Parent material Alluvium; landform a floodplain

33a. Soils excessively drained to well drained

34a. Soils excessively drained – High Floodplain Levee ...

F144AY006CT – High Floodplain Levee

34b. Soils well drained - Sandy High Floodplain ... F144AY010NH – Sandy High Floodplain

33b. Soils moderately well drained to very poorly drained

35a. Soils moderately well drained – Sandy Low Floodplain ...

F144AY012CT – Sandy Low Floodplain

35b. Soils poorly to very poorly drained

36a. Soils poorly drained

37a. Soil texture coarse-sandy – Wet Sandy Low Floodplain ...

F144AY014CT – Wet Sandy Low Floodplain

37b. Soil texture coarse-silty – Wet Silty Low Floodplain ...

F144AY015NY – Wet Silty Low Floodplain

36b. Soils very poorly drained – Very Wet Low Floodplain

F144AY016MA ... F144AY016MA – Very Wet Low Floodplain

3Bb. Soils with organic layer ("O" horizon) ≥ 40 cm (16") in thickness – Organic Soils

38a. Soils formed in freshwater environments

39a. Wetland mineralogy nutrient rich; euic soil reaction class – Semi-rich Organic Wetlands ... F144AY042NY – Semi-Rich Organic Wetlands

39b. Wetland mineralogy nutrient poor; dysic soil reaction class - Acid

Organic Wetlands ... F144AY043MA ... F144AY043MA – Acidic Organic Wetlands

38b. Soils formed in salt/brackish environments

40a. Tidally flooded daily – Tidal Low Marsh ... R144AY002CT – Tidal Salt High Marsh mesic very frequently flooded

40b. Tidally flooded twice a month – Tidal High Marsh ... R144AY001CT – Tidal Salt Low Marsh mesic very frequently flooded

2b. Soils anthroprgenic (Human Altered Human Transported [HAHT] - Urban Soils

41a. HAHT material dredged

42a. Soils excessively to moderately well drained - Dredgic Material

42b. Soils somewhat poorly to poorly drained - Wet Dredgic Material

- 41b. HAHT material not dredged; either methanogenic, combustic, spolic, or pauciartifactic, or artifactic
  - 43a. HAHT material methanogenic (landfill soils) Landfills
  - 43b HAHT material not methanogenic; either combustic, spolic, pauciartifactic & artifactic
    - 44a. HAHT material combustic (coal combustion)
      - 45a. Soils somewhat excessively drained to moderately well drained Ashy
      - 45b. Soils somewhat poorly to poorly drained Wet Ashy
    - 44b. HAHT material not combustic; either spolic or pauciartifactic & artifactic
      - 46a. Soils spolic (clean fill, <10% artifacts) Clean Fill
      - 46b. Soils pauciartifactic & artifactic (>10% artifacts, mostly construction debris) Artifactic
- 1b. Soils permanently (>21hrs/day) submerged in water Subaqueous Soils
  - 47a. Soils formed in freshwater
    - 48a. Soils formed in submerged mineral deposits Subaqueous Freshwater

      Mineral Deposits ... R144AY045RI Subaqueous Freshwater Mineral Deposits

      48b. Soils formed in submerged organic deposits Subaqueous Freshwater

      Organic Deposits ... R144AY046RI Subaqueous Freshwater Organic Deposits
  - 47b. Soils formed in salt and/or brackish water
    - 49a. Soils formed in submerged glacial deposits Subaqueous Haline Glacial Deposits ... R144AY049RI Subaqueous Haline Slopes
    - 49b. Soils formed in marine or estuarine deposits
      - 50a. Soils formed in low energy environments (lagoon & bay bottoms, stream valleys, coves) Subaqueous Haline Low Energy Basins ... R144AY048RI Subaqueous Haline Low Energy Basins
      - 50b. Soils formed in high energy environments
        - 51a. Landform a washover fan slope Subaqueous Haline Slopes ... R144AY049RI Subaqueous Haline Slopes
        - 51b. Landform a washover fan flat or flood tidal delta flat Subaqueous Haline Flats ... R144AY050RI Subaqueous Haline Flats

- I. Soils permanently (>21hrs/day) submerged in water
  - A. Soils formed in freshwater
    - 1 Soils formed in submerged organic deposits ... R144AY046RI Subaqueous Freshwater Organic Deposits
    - 2 Soils formed in submerged mineral deposits ... R144AY045RI Subaqueous Freshwater Mineral Deposits
  - B. Soils formed in salt and/or brackish water
    - 1 Soils formed in submerged glacial deposits ... R144AY047RI Subaqueous Haline Glacial Deposits
    - 2 Soils formed in marine or estuarine deposits
      - i. Soils formed in low energy environments (lagoon & bay bottoms, stream valleys, coves) ... R144AY048RI Subaqueous Haline Low Energy Basins
      - ii. Soils formed in high energy environments
        - a. Landform a washover fan flat or flood tidal delta flat ... R144AY050RI Subaqueous Haline Flats
        - b. Landform a washover fan slope ... R144AY049RI Subaqueous Haline Slopes
- II. Soils not permanently submerged in water
  - A. Soils with organic layer ("O" horizon) ≥ 16" in thickness
    - 1 Soils formed in freshwater environments
      - i. Wetland mineralogy nutrient poor; Dysic soil reaction class ... F144AY043MA
      - Acidic Organic Wetlands
      - ii. Wetland mineralogy nutrient rich; Euic soil reaction class ... F144AY042NY Semi-Rich Organic Wetlands
    - 2 Soils formed in salt/brackish environments
      - i. Tidally flooded daily ... R144AY001CT Tidal Salt Low Marsh mesic very frequently flooded
      - ii. Tidally flooded twice a month ... R144AY002CT Tidal Salt High Marsh mesic very frequently flooded
  - B. Soils without organic layer ("O" horizon) or organic layer < 16" in thickness
    - 1 Parent material alluvium; landform a floodplain
      - i. Soils execessively drained ... F144AY006CT High Floodplain Levee
      - ii. Soils well, moderately well, somewhat poorly, poorly or very poorly drained
        - a. Soils hydric; drainage class somewhat poorly, poorly or very poorly drained
          - 1) Soils very poorly drained ... F144AY016MA Very Wet Low

## Floodplain

- 2) Soils somewhat poorly or poorly drained
- b. Soils not hydric; drainage class well, moderately well
  - 1) Soils well drained
    - a) Soil texture coarse-silty
    - b) Soil texture coarse-loamy ... F144AY010NH Sandy High Floodplain
  - 2) Soils moderately well drained
    - a) Soil texture coarse-silty
    - b) Soil texture coarse-loamy ... F144AY012CT Sandy Low Floodplain
- 2 Parent material glacial till, glaciofluvial, or glaciolacustrine; landform not a floodplain
  - i. Parent material glaciolacustrine
    - a. Soils well drained ... F144AY017NH Well Drained Lake Plain
    - b. Soils moderately well, somewhat poorly, poorly or very poorly drained.
      - 1) Soils moderately well and somewhat poorly drained ... F144AY018NY Moist Lake Plain
      - 2) Soils poorly or very poorly drained
        - a) Soils poorly drained ... F144AY019NH Wet Lake Plain
        - b) Soils very poorly drained ... F144AY020MA Very Wet Coastal Lake Plain
  - ii. Parent material glacial till or glaciofluvial
    - a. Soils extremely to moderately acid ... F144AY022MA Dry Outwash
    - b. Soils moderately acid to moderately alkaline ... F144AY021MA Semi-Rich Dry Outwash
- 3 Soil depth < 20" to Bedrock
  - i. Bedrock lithology limestone
  - ii. Bedrock lithology granite, gneiss, or schist