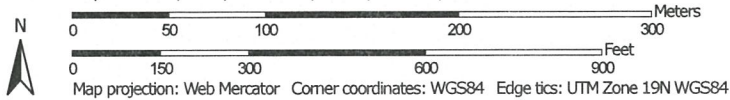


Hydrologic Soil Group—Bristol County, Massachusetts, Southern Part
(Bass Creek Road Fairhaven)



Soil Map may not be valid at this scale.

Map Scale: 1:3,770 if printed on A portrait (8.5" x 11") sheet.



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

9/1/2020
Page 1 of 4

Hydrologic Soil Group—Bristol County, Massachusetts, Southern Part
(Bass Creek Road Fairhaven)

MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils





Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bristol County, Massachusetts, Southern Part
 Survey Area Data: Version 14, Jun 9, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Jul 3, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| 61A | Pawcatuck and Ipswich peats, 0 to 2 percent slopes, very frequently flooded | A/D | 2.7 | 4.3% |
| 71A | Ridgebury fine sandy loam, 0 to 3 percent slopes, extremely stony | D | 17.6 | 28.7% |
| 71B | Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony | D | 2.3 | 3.7% |
| 73A | Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony | D | 5.8 | 9.5% |
| 306B | Paxton fine sandy loam, 0 to 8 percent slopes, very stony | C | 7.7 | 12.5% |
| 312B | Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony | C/D | 24.6 | 40.1% |
| 608 | Water, ocean | | 0.6 | 1.0% |
| 609 | Beaches, Boulders | | 0.0 | 0.0% |
| Totals for Area of Interest | | | 61.3 | 100.0% |

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

BC3-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| | | | | |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| Vegetation | Observation Plot Number: BC3 | | Transect Number: BC3-W | Date of Delineation: 6/15/20 |
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| SPHAGNUM MOSS * (NORTHERN CLUB MOSS) | 90% | 90% | YES | OBL |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: /

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC3-W

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
title/date: Bristol County MA June 9, 2020
map number: NRCS
soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR3/3 | - |
| B | 10" | 2.5YR 2.5/2 | |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: > 18"
- ☐ Depth to soil saturation in observation hole: 6"
- ☐ Water marks: N/A
- ☐ Drift lines: N/A
- ☐ Sediment Deposits: N/A
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: _____
- ☐ Water-stained leaves: _____
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|----------|-------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | _____ |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | _____ |
| Other indicators of hydrology present | <u>✓</u> | _____ |
| Sample location is in a BVW | <u>✓</u> | _____ |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

BC3-U

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC3 | Transect Number: BC3-U | Date of Delineation: 6/15/20 |
|--|-------------------------------------|-------------------------|-------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) |
| CAT GREENBRIAR | 90% | YES | FACU |
| STRIPED MAPLE | 50% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 1

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC3-U

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | - |
| B | 12" | 5YR 4/4 | - |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: no
- ☐ Depth to free water in observation hole: > 18"
- ☐ Depth to soil saturation in observation hole: > 18"
- ☐ Water marks: N/A
- ☐ Drift lines: _____
- ☐ Sediment Deposits: _____
- ☐ Drainage patterns in BVW: _____
- ☐ Oxidized rhizospheres: _____
- ☐ Water-stained leaves: _____
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | _____ | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | _____ | <u>X</u> |
| Other indicators of hydrology present | _____ | <u>X</u> |
| Sample location is in a BVW | _____ | <u>X</u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC 5/6-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| | | | | |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| Vegetation | Observation Plot Number: BC 5/6 | | Transect Number: BC 5/6-W | Date of Delineation: 6/15/20 |
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |

SPHAGNUM MOSS*
(NORTHERN CLUB MOSS)

90%

YES

OBL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: /

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC 5/6 W

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| 0/A | 6" | 5YR 3/3 | |
| B | 12" | 2.5YR 2.5/2 | |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: N/A
- ☐ Depth to soil saturation in observation hole: 3"
- ☐ Water marks: NO
- ☐ Drift lines: NO
- ☐ Sediment Deposits: NO
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: _____
- ☐ Water-stained leaves: _____
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|----------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | _____ |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | _____ |
| Other indicators of hydrology present | <u>✓</u> | <u>✓</u> |
| Sample location is in a BVW | <u>✓</u> | _____ |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

BC 5/6-U

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC 5/6 | | Transect Number: BC 5/6-U | Date of Delineation: 6/15/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAT GREENBRIAR | 90% | | YES | FAC U |
| WHITE ASH | 50% | | YES | FAC U |
| STRIPED MAPLE | 50% | | YES | FAC U |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes (no)

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC 5/6-U

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5 YR 3/3 | — |
| B | 12" | 10 YR 4/2 | |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: N/A
- ☐ Depth to free water in observation hole: N/A
- ☐ Depth to soil saturation in observation hole: N/A
- ☐ Water marks: N/A
- ☐ Drift lines: N/A
- ☐ Sediment Deposits: _____
- ☐ Drainage patterns in BVW: _____
- ☐ Oxidized rhizospheres: _____
- ☐ Water-stained leaves: _____
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: GRADE RISES 1.5'-2'

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | _____ | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | _____ | <u>X</u> |
| Other indicators of hydrology present | _____ | <u>X</u> |
| Sample location is in a BVW | _____ | <u>X</u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC8-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| | | | | |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| Vegetation | Observation Plot Number: BC8 | | Transect Number: BC8-W | Date of Delineation: 6/15/20 |
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| SPHAGNUM MOSS * (NORTHERN CLUBMOSS) | 70% | 70% | YES | OBL |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 1

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 10 YR 3/2 | — |
| B | 12" | 2.5 YR 2.5/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: >16"
- ☐ Depth to soil saturation in observation hole: —
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: —

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|----------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | <u>—</u> |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | <u>—</u> |
| Other indicators of hydrology present | <u>—</u> | <u>—</u> |
| Sample location is in a BVW | <u>✓</u> | <u>—</u> |

BC8-U

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC8 | | Transect Number: BC8-U | Date of Delineation: 6/15/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAT GREENBRIAR | 90% | 50% | YES | FACU |
| WHITE OAK | 50% | 50% | YES | FACU- |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes ☒ no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
title/date: Bristol County MA June 9, 2020
map number: NRCS
soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | — |
| B | 18" | 7.5YR 4/3 | — |

Remarks:

3. Other:





Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: > 24"
- ☐ Depth to soil saturation in observation hole: 0
- ☐ Water marks:
- ☐ Drift lines:
- ☐ Sediment Deposits:
- ☐ Drainage patterns in BVW:
- ☐ Oxidized rhizospheres:
- ☐ Water-stained leaves:
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other:

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-------|---|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | _____ | _____  |
| Wetland hydrology present: | | |
| Hydric soil present | _____ | _____  |
| Other indicators of hydrology present | _____ | _____  |
| Sample location is in a BVW | |  |

BC 10/11-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| | | | | |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| Vegetation | Observation Plot Number: BC 10/11 | | Transect Number: BC 10/11 W | Date of Delineation: 6/15/20 |
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| SPHAGNUM Moss | 70% | 50% | YES | OBL |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 1

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes

title/date: Bristol County MA June 9, 2020

map number: NRCS

soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam

hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5 YR 3/3 | — |
| B | 12" | 2.5 YR 2.5/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: X
- ☐ Depth to free water in observation hole: NONE OBS.
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: ✓
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-----------|-----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | <u> </u> |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | <u> </u> |
| Other indicators of hydrology present | <u> </u> | <u> </u> |
| Sample location is in a BVW | <u>✓</u> | <u> </u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC 10/11 - W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC10/11 | | Transect Number: BC10/11-W | Date of Delineation: 6/15/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAT GREENBRIAR | 80% | 50% | YES | FACU |
| WHITE OAK | 50% | 25% | YES | FACU- |
| STRIPPED MAPLES | 50% | 25% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5 YR 3/3 | — |
| B | 15" | 2.5 YR 3/6 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: —
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: GROUND LEVEL 1.5-2' ABOVE ADJACENT WETLANDS

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-----|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | — | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | — | <u>X</u> |
| Other indicators of hydrology present | — | <u>X</u> |
| Sample location is in a BVW | — | <u>X</u> |

BC 13-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC 13 | | Transect Number: BC 13-W | Date of Delineation: 4/15/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| SPHAGNUM MOSS | 50% | 50% | YES | OBL |
| RED MAPLE | 50% | 50% | YES | FAC |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | — |
| B | 12" | 2.5YR 4/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|----------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | _____ |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | _____ |
| Other indicators of hydrology present | _____ | <u>✓</u> |
| Sample location is in a BVW | <u>✓</u> | _____ |

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: | | Transect Number: | Date of Delineation: |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAT GREENBRIAR | 90% | 50% | YES | FACU |
| WHITE OAK | 50% | 25% | YES | FACU- |
| WHITE ASH | 50% | 25% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes

title/date: Bristol County MA June 9, 2020

map number: NRCS

soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam

hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | — |
| B | 12" | 5YR 6/3 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: None
- ☐ Depth to soil saturation in observation hole: None
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: —
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: GRADE 1.5'-2' HIGHER THAN ADJACENT WETLANDS

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | _____ | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | _____ | <u>X</u> |
| Other indicators of hydrology present | _____ | <u>X</u> |
| Sample location is in a BVW | _____ | <u>X</u> |

BC 14/15-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC 14/15 | | Transect Number: BC 14/15-W | Date of Delineation: 6/26/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| SPHAGNUM MOSS | 50% | 50% | YES | OBL |
| RED MAPLE | 50% | 50% | YES | FAC |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC 14/15-u

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 7.5YR 3/2 | — |
| B | 12" | 2.5YR 4/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: 4"
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: —

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|----------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | <u>—</u> |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | <u>—</u> |
| Other indicators of hydrology present | <u>✓</u> | <u>—</u> |
| Sample location is in a BVW | <u>✓</u> | <u>—</u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC14/15-U

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: | | Transect Number: | Date of Delineation: 6/26/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAF COLEUMBRIAN | 90% | 50% | YES | FACU |
| WHITE OAK | 50% | 25% | YES | FACU- |
| WHITE ASH | 50% | 25% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BL 14/15-U

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | — |
| B | 12" | 5YR 6/3 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: —
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: GRADE IS 1.5'-2' HIGHER THAN ADJACENT WETLAND

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-----|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | — | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | — | <u>X</u> |
| Other indicators of hydrology present | — | <u>X</u> |
| Sample location is in a BVW | — | <u>X</u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC 16-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC-16 | | Transect Number: BC-16-W | | Date of Delineation: 6/26/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* | |
| SPHAGNUM MOSS | 50% | 50% | YES | OBL | |
| RED MAPLE | 25% | 25% | YES | FAC | |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 2.5YR 3/4 | — |
| B | 12" | 2.5YR 4/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|----------|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | _____ |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | _____ |
| Other indicators of hydrology present | _____ | <u>✓</u> |
| Sample location is in a BVW | <u>✓</u> | _____ |

BC 16-U

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC 16 | | Transect Number: BC 16-U | Date of Delineation: 6/24/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| PEAT GREENBRIAR | 80% | 40% | YES | FACU |
| WHITE OAK | 30% | 20% | YES | FACU- |
| WHITE ASH | 30% | 20% | YES | FACU |
| STRIPED MAPLE | 30% | 20% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 4

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|---------|--------------|---------------|
| O/A | 6" | 2.5 YR 3/4 | — |
| B | 12"-15" | 5 YR 6/3 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: —
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: GRADE IS 2' HIGHER THAN ADJACENT WETLANDS

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-----|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | — | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | — | <u>X</u> |
| Other indicators of hydrology present | — | <u>X</u> |
| Sample location is in a BVW | — | <u>X</u> |

BC 17/18-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| | | | | |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| Vegetation | Observation Plot Number: BC 17/18 | | Transect Number: BC 17/18-W | Date of Delineation: 6/26/20 |
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| SPHAGNUM MOSS | 70% | 50% | YES | OBL |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: /

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes

title/date: Bristol County MA June 9, 2020

map number: NRCS

soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam

hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O1A | 6" | 7.5 YR 3/2 | — |
| B | 12" | 2.5 YR 3/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: YES
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-------------------------------------|-------------------------------------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Wetland hydrology present: | | |
| Hydric soil present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Other indicators of hydrology present | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample location is in a BVW | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC 17/18-U

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: BC17/18 | | Transect Number: BC17/18-U | Date of Delineation: 6/24/20 |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAT GREENBRIAR | 75% | 40% | YES | FACU |
| WHITE BTH | 50% | 40% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC 17/18-0

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | — |
| B | 12" | 5YR 6/3 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: —
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: GRADE IS 1.5'-2' ABOVE ADJACENT WETLANDS

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-----|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | — | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | — | <u>✓</u> |
| Other indicators of hydrology present | — | <u>X</u> |
| Sample location is in a BVW | — | <u>X</u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC 19/20-W

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- ☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- ☐ Method other than dominance test used (attach additional information)

Section I.

| | | | | |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| Vegetation | Observation Plot Number: BC19/20 | | Transect Number: BC19/20-W | Date of Delineation: 6/26/20 |
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |

| | | | | |
|---------------|-----|-----|-----|-----|
| SPHAGNUM MOSS | 60% | 30% | YES | OBL |
|---------------|-----|-----|-----|-----|

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: /

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
title/date: Bristol County MA June 9, 2020
map number: NRCS
soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 7.5 YR 3/2 | — |
| B | 12" | 2.5 YR 3/2 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: NO
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BWV: YES
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- ☐ Other: _____

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|---------------|---------------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | <u>✓</u> | <u> </u> |
| Wetland hydrology present: | | |
| Hydric soil present | <u>✓</u> | <u> </u> |
| Other indicators of hydrology present | <u> </u> | <u>✓</u> |
| Sample location is in a BVW | <u>✓</u> | <u> </u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.

BC 19/20-1

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Michael Ristuccia Prepared by: Frederick Geisel Project location: 60 Bass Creek Rd., Fairhaven DEP File #: _____

Check all that apply:

- ☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
☒ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
☐ Method other than dominance test used (attach additional information)

Section I.

| Vegetation | Observation Plot Number: | | Transect Number: | Date of Delineation: |
|--|-------------------------------------|-------------------------|-------------------------------|--------------------------------|
| A. Sample Layer & Plant Species (by common/scientific name) | B. Percent Cover (or basal Area) | C. Percent Dominance | D. Dominant Plant (yes or no) | E. Wetland Indicator Category* |
| CAT GREENBRIAR | 75% | 25% | YES | FACU |
| WHITE OAK | 30% | 30% | YES | FACU- |
| HOLLY-AMERICAN | 30% | 20% | YES | FACU |
| AMERICAN BEECH | 30% | 25% | YES | FACU |

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 4

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

BC 19/20-U

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes
 title/date: Bristol County MA June 9, 2020
 map number: NRCS
 soil type mapped: Ridgebury Fine Sandy Loam & Woodbridge Fine Sandy Loam
 hydric soil inclusions: N/A

Are field observations consistent with soil survey? yes no
 Remarks:

2. Soil Description

| Horizon | Depth | Matrix Color | Mottles Color |
|---------|-------|--------------|---------------|
| O/A | 6" | 5YR 3/3 | — |
| B | 12" | 5YR 6/3 | — |

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- ☐ Site Inundated: no
- ☐ Depth to free water in observation hole: NONE
- ☐ Depth to soil saturation in observation hole: NONE
- ☐ Water marks: —
- ☐ Drift lines: —
- ☐ Sediment Deposits: —
- ☐ Drainage patterns in BVW: —
- ☐ Oxidized rhizospheres: —
- ☐ Water-stained leaves: —
- ☐ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
—
—
—
- ☐ Other: GRADE 1.5' ABOVE ADJACENT WETLANDS

Vegetation and Hydrology Conclusion

| | Yes | No |
|---|-----|----------|
| Number of wetland indicator plants ≥ # of non-wetland indicator plants | — | <u>X</u> |
| Wetland hydrology present: | | |
| Hydric soil present | — | <u>X</u> |
| Other indicators of hydrology present | — | <u>X</u> |
| Sample location is in a BVW | — | <u>X</u> |

Submit this form with the Request for Determination of Applicability or Notice of Intent.