



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.153047
Longitude: -69.85613539
Datum: NAD 83
NWI/WWI Classification: Upland
Local Relief: Linear
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W12EI
Sample Point: Upland

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils

Restrictive Layer (If Observed) Type: Ledge Depth: 12
Hydric Soil Present?

Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W12EI

Sample Point Upland

Tree Stratum (Plot size: 10 meter radius)
Species Name % Cover Dominant Ind. Status
1. Thuja occidentalis 1 N FACW
2. Betula alleghaniensis 5 N FAC
3. Picea rubens 50 Y FACU
4. Betula papyrifera 1 N FACU
5. Acer rubrum 5 N FAC
6. -- -- -- --
7. -- -- -- --
8. -- -- -- --
9. -- -- -- --
10. -- -- -- --
Total Cover = 62
Sapling/Shrub Stratum (Plot size: 5 meter radius)
1. Picea rubens 15 Y FACU
2. Betula alleghaniensis 5 N FAC
3. Betula papyrifera 1 N FACU
4. -- -- -- --
5. -- -- -- --
6. -- -- -- --
7. -- -- -- --
8. -- -- -- --
9. -- -- -- --
10. -- -- -- --
Total Cover = 21
Herb Stratum (Plot size: 2 meter radius)
1. Medeola virginiana 50 Y FACU
2. -- -- -- --
3. -- -- -- --
4. -- -- -- --
5. -- -- -- --
6. -- -- -- --
7. -- -- -- 0
8. -- -- -- --
9. -- -- -- --
10. -- -- -- --
11. -- -- -- --
12. -- -- -- --
13. -- -- -- --
14. -- -- -- --
15. -- -- -- --
Total Cover = 50
Woody Vine Stratum (Plot size: 10 meter radius)
1. -- -- -- --
2. -- -- -- --
3. -- -- -- --
4. -- -- -- --
5. -- -- -- --
Total Cover = 0
Remarks:

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index Worksheet
Total % Cover of: Multiply by:
OBL spp. 0 x 1 = 0
FACW spp. 1 x 2 = 2
FAC spp. 15 x 3 = 45
FACU spp. 117 x 4 = 468
UPL spp. 0 x 5 = 0
Total 133 (A) 515 (B)
Prevalence Index = B/A = 3.872

Hydrophytic Vegetation Indicators:
[] Yes [] No Rapid Test for Hydrophytic Vegetation
[] Yes [] No Dominance Test is > 50%
[] Yes [] No Prevalence Index is <= 3.0 *
[] Yes [] No Morphological Adaptations (Explain) *
[] Yes [] No Problem Hydrophytic Vegetation (Explain) *
* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No

Additional Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slc
Landform: Terrace
Slope (%): See topo map
Latitude: 45.153047
Longitude: -69.856135
Datum: NAD 83
Project #: 194-7130
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W12EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: 6 (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %), Type, Location, Texture. Includes data for horizons 1 and 2.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
Restrictive Layer (If Observed) Type: Ledge Depth: 12
Hydric Soil Present?

Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W12EI Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Thuja occidentalis, Betula alleghaniensis, Picea mariana, and others.

Total Cover = 55

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 41

Table for Herb Stratum (Plot size: 2 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 37

Table for Woody Vine Stratum (Plot size: 10 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index Worksheet

Total % Cover of: OBL spp. 5, FACW spp. 102, FAC spp. 15, FACU spp. 11, UPL spp. 0. Multiply by: x 1 = 5, x 2 = 204, x 3 = 45, x 4 = 44, x 5 = 0. Total 133 (A), 298 (B). Prevalence Index = B/A = 2.241

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

- Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Monarda Telos Complex 0-8 % slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.158284
Longitude: -69.844436
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W19DS
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda Telos Complex 0-8 % slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 12
Hydric Soil Present?

Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W19DS

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Betula alleghaniensis, Picea rubens.

Total Cover = 55

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea rubens, Acer rubrum, Viburnum acerifolium.

Total Cover = 17

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Dryopteris marginalis, Cornus canadensis, Medeola virginiana, Coptis trifolia, Acer rubrum, Rubus hispidus.

Total Cover = 46

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows for Woody Vine Stratum.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of and Multiply by calculations for OBL, FACW, FACU, and UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



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Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Dave Santillo
Investigator #2: Emmy Irvin
Soil Unit: Monarda Telos Complex 0-8 % slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.158284
Longitude: -69.849353
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W19DS
Sample Point: Wetland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present? [x] Yes [] No
Wetland Hydrology Present? [x] Yes [] No
Hydric Soils Present? [x] Yes [] No
Is This Sampling Point Within A Wetland? [x] Yes [] No

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present) []
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present? [] Yes [x] No
Water Table Present? [] Yes [x] No
Saturation Present? [x] Yes [] No
Depth: 0 (in.)
Wetland Hydrology Present? [x] Yes [] No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda Telos Complex 0-8 % slopes
Series Drainage Class: poorly drained
Taxonomy (Subgroup): Loamy, mixed, active, acid, frigid, shallow Aeris Endoaquepts

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present) []
Indicators for Problematic Soils 1
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B), S9 - Thin Dark Surface (LRR R, MLRA 149B), F1 - Loamy Mucky Mineral (LRR K, L), F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B), A16 - Coast Prairie Redox (LRR K, L, R), S3 - 5cm Mucky Peat of Peat (LRR K, L, R), S7 - Dark Surface (LRR K, L, M), S8 - Polyvalue Below Surface (LRR K, L), S9 - Thin Dark Surface (LRR K, L), F12 - Iron-Manganese Masses (LRR K, L, R), F19 - Piedmont Floodplain Soils (MLRA 149B), TA6 - Mesic Spodic (MLRA 144A, 145, 149B), TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 12
Hydric Soil Present? [x] Yes [] No

Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W19DS

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Thuja occidentalis, Acer rubrum, Abies balsamea.

Total Cover = 50

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Row includes Spiraea alba.

Total Cover = 10

Table for Herb Stratum (Plot size: 2 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Onoclea sensibilis, Coptis trifolia, Osmundastrum cinnamomeum, Fragaria vesca, Clintonia borealis.

Total Cover = 55

Table for Woody Vine Stratum (Plot size: 10 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. All entries are --.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and calculation results for OBL, FACW, FAC, FACU, and UPL species.

Prevalence Index = B/A = 2.565

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Date: 09/09/20
County: Somerset
State: ME
Soil Unit: Telos-Chesuncook association, 3 to 15 % slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.150130°
Longitude: -69.856510°
Datum: NAD 83
NWI/WWI Classification: Upland
Wetland ID: W18EI
Sample Point: Upland

Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

Map Unit Name: Telos-Chesuncook association, 3 to 15 % slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Muck Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: None Depth: N/A
Hydric Soil Present?

Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W18EI Sample Point Upland

Tree Stratum (Plot size: 10 meter radius)
Species Name % Cover Dominant Ind. Status
1. Betula papyrifera 5 N FACU
2. Betula alleghaniensis 20 Y FAC
3. Picea rubens 10 Y FACU
...
Total Cover = 35
Sapling/Shrub Stratum (Plot size: 5 meter radius)
1. Picea rubens 10 Y FACU
2. Acer rubrum 2 N FAC
3. Viburnum acerifolium 10 Y UPL
...
Total Cover = 22
Herb Stratum (Plot size: 2 meter radius)
1. Dryopteris marginalis 5 N FACU
2. Cornus canadensis 20 Y FAC
3. Medeola virginiana 10 Y FACU
...
Total Cover = 44
Woody Vine Stratum (Plot size: 10 meter radius)
1. -- -- -- --
...
Total Cover = 0
Remarks:

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index Worksheet
Total % Cover of: Multiply by:
OBL spp. 0 x 1 = 0
FACW spp. 2 x 2 = 4
FAC spp. 49 x 3 = 147
FACU spp. 40 x 4 = 160
UPL spp. 10 x 5 = 50
Total 101 (A) 361 (B)
Prevalence Index = B/A = 3.574

Hydrophytic Vegetation Indicators:
[] Yes [x] No Rapid Test for Hydrophytic Vegetation
[] Yes [x] No Dominance Test is > 50%
[] Yes [x] No Prevalence Index is <= 3.0 *
[] Yes [x] No Morphological Adaptations (Explain) *
[] Yes [x] No Problem Hydrophytic Vegetation (Explain) *
* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No

Additional Remarks:



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WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Date: 09/09/20
County: Somerset
State: ME
Soil Unit: Telos-Chesuncook association, 3 to 15 % slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.150087°
Longitude: -69.856604°
Datum: NAD 83
NWI/WWI Classification: PFO
Wetland ID: W18EI
Sample Point: Wetland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present? [x] Yes [] No
Wetland Hydrology Present? [x] Yes [] No
Hydric Soils Present? [x] Yes [] No
Is This Sampling Point Within A Wetland? [x] Yes [] No

Remarks: Drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present) [x]
Primary:
[] A1 - Surface Water
[] A2 - High Water Table
[x] A3 - Saturation
[] B1 - Water Marks
[] B2 - Sediment Deposits
[] B3 - Drift Deposits
[] B4 - Algal Mat or Crust
[] B5 - Iron Deposits
[] B7 - Inundation Visible on Aerial Imagery
[] B8 - Sparsely Vegetated Concave Surface
Secondary:
[] B6 - Surface Soil Cracks
[x] B10 - Drainage Patterns
[] B16 - Moss Trim Lines
[] C2 - Dry-Season Water Table
[] C8 - Crayfish Burrows
[] C9 - Saturation Visible on Aerial Imagery
[] D1 - Stunted or Stressed Plants
[] D2 - Geomorphic Position
[] D3 - Shallow Aquitard
[] D4 - Microtopographic Relief
[] D5 - FAC-Neutral Test

Field Observations:
Surface Water Present? [] Yes [x] No
Water Table Present? [] Yes [x] No
Saturation Present? [x] Yes [] No
Depth: 0 (in.)
Wetland Hydrology Present? [x] Yes [] No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Seep wetland

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 % slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present) [x]:
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
S9 - Thin Dark Surface (LRR R, MLRA 149B)
F1 - Loamy Mucky Mineral (LRR K, L)
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
Indicators for Problematic Soils 1:
A10 - 2 cm Muck (LRR K, L, MLRA 149B)
A16 - Coast Prairie Redox (LRR K, L, R)
S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
S7 - Dark Surface (LRR K, L, M)
S8 - Polyvalue Below Surface (LRR K, L)
S9 - Thin Dark Surface (LRR K, L)
F12 - Iron-Manganese Masses (LRR K, L, R)
F19 - Piedmont Floodplain Soils (MLRA 149B)
TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: Ledge Depth: 10
Hydric Soil Present? [x] Yes [] No

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W18EI Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Thuja occidentalis (30% cover, dominant Y, FACW) and Picea mariana (10% cover, dominant N, FACW).

Total Cover = 40

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Includes Thuja occidentalis (10% cover, dominant Y, FACW).

Total Cover = 10

Table for Herb Stratum (Plot size: 2 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Includes Clintonia borealis (10% cover, dominant Y, FAC), Viola cucullata (10% cover, dominant Y, OBL), Rubus hispidus (5% cover, dominant N, FACW), Uvularia sessilifolia (5% cover, dominant N, FACU), and Geum rivale (10% cover, dominant Y, OBL).

Total Cover = 50

Table for Woody Vine Stratum (Plot size: 10 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. All entries are --.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of species (OBL, FACW, FAC, FACU, UPL) and Multiply by factors (1-5) to calculate Total (A) and Prevalence Index (B/A = 2.100).

Hydrophytic Vegetation Indicators:

- Checklist of indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W30EI
Sample Point: Upland
Soil Unit: Telos-Chesuncook-Elliottsville association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.147302
Longitude: -69.862359
Datum: NAD 83
NWI/WWI Classification: Upland
Local Relief: Linear
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook-Elliottsville association, 3 to 15% slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W30EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Picea rubens, Betula alleghaniensis, Acer pensylvanicum, and 5 empty rows.

Total Cover = 105

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include 10 empty rows.

Total Cover = 0

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Osmunda claytoniana, Coptis trifolia, Athyrium angustum, Maianthemum canadense, Medeola virginiana, Viola palmata, Nabalus albus, Dryopteris campyloptera, and 7 empty rows.

Total Cover = 63

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include 5 empty rows.

Total Cover = 0

Remarks:

Additional Remarks:

Empty rectangular box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FAC, UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W30EI
Sample Point: Wetland
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes, very stony
Landform: Terrace
Slope (%): see topo map
Latitude: 45.147302
Longitude: -69.8623594
Datum: NAD 83
NWI/WWI Classification: PEM
Local Relief: Linear
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth:
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes, very stony
Series Drainage Class: somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %), Type, Location, Texture. Includes data for horizon 1 with 10YR 2/1 95 and 5YR 3/3 5.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks: HIGH ORGANIC CONTENT



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W30EI Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea mariana, Acer rubrum, Fraxinus nigra, Larix laricina.

Total Cover = 20

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Alnus incana, Acer rubrum.

Total Cover = 15

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Carex stricta, Symphyotrichum novae-angliae, Onoclea sensibilis, Impatiens capensis, Spiraea alba, Calamagrostis canadensis, Osmunda claytoniana, Solidago canadensis, Rubus idaeus, Scirpus cyperinus.

Total Cover = 205

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include empty entries.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 9 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and calculation results for OBL, FACW, FAC, FACU, UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15 % slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.144677°
Longitude: -69.865045°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W35EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15 % slopes
Series Drainage Class: Moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface
S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W35EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Picea rubens, Betula alleghaniensis, Acer pensylvanicum, and others.

Total Cover = 105

Sapling/Shrub Stratum (Plot size: 5 meter radius) table with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Herb Stratum (Plot size: 2 meter radius) table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Osmunda claytoniana, Coptis trifolia, Athyrium angustum, etc.

Total Cover = 63

Woody Vine Stratum (Plot size: 10 meter radius) table with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Remarks:

Additional Remarks:

Empty box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and calculation results for OBL, FACW, FAC, and UPL species.

Total 168 (A) 622 (B)

Prevalence Index = B/A = 3.702

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Summit
Slope (%): See topo map
Latitude: 45.144638
Longitude: -69.8652359
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W35EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year?
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: none Depth:
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W35EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea mariana, Acer rubrum, Acer pensylvanicum.

Total Cover = 45

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Table for Herb Stratum (Plot size: 2 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Osmundastrum cinnamomeum, Calamagrostis canadensis, Eutrochium purpureum, etc.

Total Cover = 95

Table for Woody Vine Stratum (Plot size: 10 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and calculation results for OBL, FACW, FAC, and UPL species.

Prevalence Index = B/A = 2.214

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15
Landform: Terrace
Slope (%): See topo map
Latitude: 45.143264°
Longitude: 45.143264°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W37EI
Sample Point: Upland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils 1
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B), S9 - Thin Dark Surface (LRR R, MLRA 149B), F1 - Loamy Mucky Mineral (LRR K, L), F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B), A16 - Coast Prairie Redox (LRR K, L, R), S3 - 5cm Mucky Peat of Peat (LRR K, L, R), S7 - Dark Surface (LRR K, L, M), S8 - Polyvalue Below Surface (LRR K, L), S9 - Thin Dark Surface (LRR K, L), F12 - Iron-Manganese Masses (LRR K, L, R), F19 - Piedmont Floodplain Soils (MLRA 149B), TA6 - Mesic Spodic (MLRA 144A, 145, 149B), TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W37EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Picea rubens, Betula alleghaniensis, Acer pensylvanicum, and others.

Total Cover = 70

Sapling/Shrub Stratum (Plot size: 5 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 are mostly empty.

Total Cover = 0

Herb Stratum (Plot size: 2 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Osmunda claytoniana, Coptis trifolia, Athyrium angustum, etc.

Total Cover = 63

Woody Vine Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 are mostly empty.

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Total % Cover of:

Multiply by:

Calculation table for Prevalence Index: OBL spp. 0 x 1 = 0, FACW spp. 2 x 2 = 4, FAC spp. 41 x 3 = 123, FACU spp. 90 x 4 = 360, UPL spp. 0 x 5 = 0.

Total 133 (A) 487 (B)

Prevalence Index = B/A = 3.662

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): see topo map
Latitude: 45.143200
Longitude: -69.8669641
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W37EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W37EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Tree Stratum (Plot size: 10 meter radius). All entries are '--'.

Total Cover = 0

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Sapling/Shrub Stratum (Plot size: 5 meter radius). All entries are '--'.

Total Cover = 0

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 for Herb Stratum (Plot size: 2 meter radius). Includes Carex crinita (50% cover, Y, OBL), Carex intumescens (25% cover, Y, FACW), and Onoclea sensibilis (5% cover, N, FACW).

Total Cover = 80

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 for Woody Vine Stratum (Plot size: 10 meter radius). All entries are '--'.

Total Cover = 0

Remarks:

Additional Remarks:

Empty rectangular box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet. Columns: Total % Cover of, Multiply by. Rows for OBL spp. (50 x 1 = 50), FACW spp. (30 x 2 = 60), FAC spp. (0 x 3 = 0), FACU spp. (0 x 4 = 0), UPL spp. (0 x 5 = 0).

Total 80 (A) 110 (B)

Prevalence Index = B/A = 1.375

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.142746°
Longitude: -69.866973°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W38EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Rows show data for depths 2, 6, and subsequent empty rows.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B), S9 - Thin Dark Surface (LRR R, MLRA 149B), F1 - Loamy Mucky Mineral (LRR K, L), F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B), A16 - Coast Prairie Redox (LRR K, L, R), S3 - 5cm Mucky Peat of Peat (LRR K, L, R), S7 - Dark Surface (LRR K, L, M), S8 - Polyvalue Below Surface (LRR K, L), S9 - Thin Dark Surface (LRR K, L), F12 - Iron-Manganese Masses (LRR K, L, R), F19 - Piedmont Floodplain Soils (MLRA 149B), TA6 - Mesic Spodic (MLRA 144A, 145, 149B), TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?
Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W38EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Picea rubens, Betula alleghaniensis, Acer pensylvanicum, and others.

Total Cover = 70

Sapling/Shrub Stratum (Plot size: 5 meter radius) table with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Herb Stratum (Plot size: 2 meter radius) table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Osmunda claytoniana, Coptis trifolia, Athyrium angustum, etc.

Total Cover = 63

Woody Vine Stratum (Plot size: 10 meter radius) table with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Remarks:

Additional Remarks:

Empty rectangular box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and calculation results for OBL, FACW, FAC, and UPL species.

Total 133 (A) 487 (B)

Prevalence Index = B/A = 3.662

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.142722°
Longitude: -69.866879°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W38EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
Secondary:
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam). Rows show soil profile data from 0 to 12 inches depth.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W38EI Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea mariana, Acer rubrum, Fagus grandifolia, Picea rubens.

Total Cover = 35

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Alnus incana.

Total Cover = 10

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Carex stricta, Scirpus cyperinus, Onoclea sensibilis, Eutrochium maculatum.

Total Cover = 50

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows for Woody Vine Stratum.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of and Multiply by for OBL, FACW, FAC, and UPL species.

Prevalence Index = B/A = 1.789

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [X] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.140627
Longitude: -69.8696469
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W43EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Row 1: 0, 12, --, 10YR, 5/3, 100, --, --, --, --, --, fine sandy loam.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface
S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: NR Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W43EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Betula lenta (75%), Acer rubrum (20%), Fraxinus nigra (5%), and others.

Total Cover = 100

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer pensylvanicum (5%), Betula lenta (20%), Acer rubrum (10%), and others.

Total Cover = 35

Table for Herb Stratum (Plot size: 2 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Medeola virginiana (5%), Polystichum acrostichoides (20%), Phegopteris hexagonoptera (5%), Athyrium angustum (5%), and others.

Total Cover = 35

Table for Woody Vine Stratum (Plot size: 10 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows are mostly empty.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of OBL, FACW, FAC, and UPL spp. multiplied by their respective indices (1-5) to get a total of 635 (B) from 170 (A). Prevalence Index = B/A = 3.735.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.142152
Longitude: -69.867685
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W43EI
Sample Point: Wetland
NWII/WWI Classification: PFO
Local Relief: Linear
Are climatic/hydrologic conditions on the site typical for this time of year?
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS
Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)
Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1- Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 13
Hydric Soil Present?
Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W43EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Fraxinus nigra, Betula papyrifera, Betula alleghaniensis, Picea mariana, Acer rubrum, and empty rows.

Total Cover = 65

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. All entries are empty.

Total Cover = 0

Table for Herb Stratum (Plot size: 2 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Onoclea sensibilis and several empty rows.

Total Cover = 40

Table for Woody Vine Stratum (Plot size: 10 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. All entries are empty.

Total Cover = 0

Remarks:

Additional Remarks:

Empty rectangular box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FAC, and UPL species.

Prevalence Index = B/A = 3.200

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.140627
Longitude: -69.8696469
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W47EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Row 1: 0, 12, --, 10YR, 5/3, 100, --, --, --, --, --, fine sandy loam.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B), S9 - Thin Dark Surface (LRR R, MLRA 149B), F1 - Loamy Mucky Mineral (LRR K, L), F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B), A16 - Coast Prairie Redox (LRR K, L, R), S3 - 5cm Mucky Peat of Peat (LRR K, L, R), S7 - Dark Surface (LRR K, L, M), S8 - Polyvalue Below Surface (LRR K, L), S9 - Thin Dark Surface (LRR K, L), F12 - Iron-Manganese Masses (LRR K, L, R), F19 - Piedmont Floodplain Soils (MLRA 149B), TA6 - Mesic Spodic (MLRA 144A, 145, 149B), TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: NR Depth: 12
Hydric Soil Present?
Remarks:

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W47EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Betula lenta (75%), Acer rubrum (20%), Fraxinus nigra (5%), and others.

Total Cover = 100

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer pensylvanicum (5%), Betula lenta (20%), Acer rubrum (10%), and others.

Total Cover = 35

Table for Herb Stratum (Plot size: 2 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Medeola virginiana (5%), Polystichum acrostichoides (20%), Phegopteris hexagonoptera (5%), Athyrium angustum (5%), and others.

Total Cover = 35

Table for Woody Vine Stratum (Plot size: 10 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows are mostly empty, indicating no species were identified.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing calculations for OBL, FACW, FAC, and UPL species, resulting in a Prevalence Index of 3.735.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.140674
Longitude: -69.869728
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W47EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Rows show soil profile data from 0 to 14 inches depth.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
Restrictive Layer (If Observed) Type: LEDGE Depth: 14
Hydric Soil Present?

Restrictive Layer (If Observed) Type: LEDGE Depth: 14
Hydric Soil Present?
Remarks:

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W47EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Larix laricina (30% cover, dominant), Acer rubrum (50% cover, dominant), and Fraxinus nigra (20% cover, non-dominant).

Total Cover = 100

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea mariana, Acer rubrum, and Fraxinus nigra.

Total Cover = 15

Table for Herb Stratum (Plot size: 2 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Onoclea sensibilis, Parathelypteris noveboracensis, Calamagrostis canadensis, and Fragaria vesca.

Total Cover = 100

Table for Woody Vine Stratum (Plot size: 10 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. All entries are blank.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FAC, FACU, and UPL species.

Prevalence Index = B/A = 2.488

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.140627
Longitude: -69.8696469
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W48EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface
S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: NR Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W48EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Betula lenta (75%), Acer rubrum (20%), Fraxinus nigra (5%), and others.

Total Cover = 100

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer pensylvanicum (5%), Betula lenta (20%), Acer rubrum (10%), and others.

Total Cover = 35

Table for Herb Stratum (Plot size: 2 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Medeola virginiana (5%), Polystichum acrostichoides (20%), Phegopteris hexagonoptera (5%), Athyrium angustum (5%), and others.

Total Cover = 35

Table for Woody Vine Stratum (Plot size: 10 meter radius) with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows are mostly empty, indicating no species identified.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing calculations for OBL, FACW, FAC, and UPL species, resulting in a Prevalence Index of 3.735.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.140674
Longitude: -69.869728
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W48EI
Sample Point: Wetland
NWII/WWI Classification: PFO
Local Relief: Linear
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: moderately well drained
Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Haplorthods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Rows show soil profile data from 0 to 14 inches depth.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 14
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W48EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Larix laricina, Acer rubrum, Fraxinus nigra.

Total Cover = 100

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea mariana, Acer rubrum, Fraxinus nigra.

Total Cover = 15

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Onoclea sensibilis, Parathelypteris noveboracensis, Calamagrostis canadensis, Fragaria vesca.

Total Cover = 100

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include empty entries.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and calculation results for OBL, FACW, FAC, FACU, UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.138110
Longitude: -69.873539
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W51EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15 percent slopes, very stony
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface
S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 11
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W51EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea rubens, Acer rubrum, and 7 empty rows.

Total Cover = 40

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Viburnum lantanoides, Picea rubens, and 8 empty rows.

Total Cover = 6

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Aralia nudicaulis, Acer rubrum, and 13 empty rows.

Total Cover = 10

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include 5 empty rows.

Total Cover = 0

Remarks:

Additional Remarks:

Empty rectangular box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FACU, UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.138704
Longitude: -69.8733048
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W51EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year?
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 11
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W51EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Tree Stratum (Plot size: 10 meter radius).

Total Cover = 0

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Sapling/Shrub Stratum (Plot size: 5 meter radius).

Total Cover = 0

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 for Herb Stratum (Plot size: 2 meter radius).

Total Cover = 92

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 for Woody Vine Stratum (Plot size: 10 meter radius).

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of and Multiply by calculations for OBL, FACW, FAC, and UPL species, resulting in a Prevalence Index of 2.109.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15 percent slopes, very stony
Local Relief: Linear
NW1/WWI Classification: Upland
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W52EI
Sample Point: Upland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15 percent slopes, very stony
Series Drainage Class: Somewhat poorly drained

Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Muck Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 11
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W52EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Picea rubens, Acer rubrum, and 7 empty rows. Total Cover = 40.

Sapling/Shrub Stratum (Plot size: 5 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Viburnum lantanoides, Picea rubens, and 8 empty rows. Total Cover = 6.

Herb Stratum (Plot size: 2 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Aralia nudicaulis, Acer rubrum, and 13 empty rows. Total Cover = 10.

Woody Vine Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 are empty. Total Cover = 0.

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index Worksheet

Total % Cover of: OBL spp. 0, FACW spp. 0, FAC spp. 25, FACU spp. 31, UPL spp. 0. Multiply by: x 1 = 0, x 2 = 0, x 3 = 75, x 4 = 124, x 5 = 0. Total 56 (A), 199 (B). Prevalence Index = B/A = 3.554

Hydrophytic Vegetation Indicators:

- Yes/No checkboxes for Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

- Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes/No checkboxes

Additional Remarks:

Empty rectangular box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Chesuncook-Elliottsville-Telos association, 3 to 15%
Landform: Terrace
Slope (%): See topo map
Latitude: 45.138704
Longitude: -69.8733048
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W52EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS
Map Unit Name: Chesuncook-Elliottsville-Telos association, 3 to 15%
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with 11 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam). Rows show soil profile data at depths 0, 1, 3, 11, and 100 cm.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Muck Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mescic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed)
Type: ledge
Depth: 11
Hydric Soil Present?
Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W52EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 showing various species with 0% cover.

Total Cover = 0

Sapling/Shrub Stratum (Plot size: 5 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 showing various species with 0% cover.

Total Cover = 0

Herb Stratum (Plot size: 2 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 listing species like Calamagrostis canadensis, Symphyotrichum laeve, etc.

Total Cover = 92

Woody Vine Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 showing no species identified.

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index Worksheet

Total % Cover of:

Multiply by:

Calculation table for Prevalence Index: OBL spp. 50 x 1 = 50; FACW spp. 7 x 2 = 14; FAC spp. 10 x 3 = 30; FACU spp. 25 x 4 = 100; UPL spp. 0 x 5 = 0.

Total 92 (A) 194 (B)

Prevalence Index = B/A = 2.109

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.148614
Longitude: -69.853279
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W61EI
Sample Point: Upland
NWII/WWI Classification: Upland
Local Relief: Linear
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
Secondary:
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15% slopes
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 18
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W61EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Fagus grandifolia, Betula papyrifera.

Total Cover = 16

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Viburnum lantanoides, Acer rubrum, Acer pensylvanicum.

Total Cover = 7

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Maianthemum canadense, Uvularia sessilifolia.

Total Cover = 20

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include empty entries.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FAC, UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.148321°
Longitude: -69.853153°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W61EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15% slopes
Series Drainage Class: somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Rows show soil profile data at depths 0, 15, 18, and several blank rows.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 18
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W61EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Tree Stratum (Plot size: 10 meter radius). Total Cover = 0.

Total Cover = 0

Sapling/Shrub Stratum (Plot size: 5 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Sapling/Shrub Stratum. Total Cover = 10.

Total Cover = 10

Herb Stratum (Plot size: 2 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 for Herb Stratum. Total Cover = 90.

Total Cover = 90

Woody Vine Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 for Woody Vine Stratum. Total Cover = 0.

Total Cover = 0

Remarks:

Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Additional Remarks:

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet
Total % Cover of: Multiply by:
OBL spp. 65 x 1 = 65
FACW spp. 20 x 2 = 40
FAC spp. 15 x 3 = 45
FACU spp. 0 x 4 = 0
UPL spp. 0 x 5 = 0
Total 100 (A) 150 (B)
Prevalence Index = B/A = 1.500

Hydrophytic Vegetation Indicators:
[] Yes [x] No Rapid Test for Hydrophytic Vegetation
[x] Yes [] No Dominance Test is > 50%
[x] Yes [] No Prevalence Index is <= 3.0 *
[] Yes [x] No Morphological Adaptations (Explain) *
[] Yes [x] No Problem Hydrophytic Vegetation (Explain) *
* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [x] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.147121
Longitude: -69.85223412
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W63EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15% slopes
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Row 1: 0, 15, a, 10YR, 3/3, 100, --, --, --, --, --, fine sandy loam.

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
S9 - Thin Dark Surface (LRR R, MLRA 149B)
F1 - Loamy Mucky Mineral (LRR K, L)
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B)
A16 - Coast Prairie Redox (LRR K, L, R)
S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
S7 - Dark Surface (LRR K, L, M)
S8 - Polyvalue Below Surface (LRR K, L)
S9 - Thin Dark Surface (LRR K, L)
F12 - Iron-Manganese Masses (LRR K, L, R)
F19 - Piedmont Floodplain Soils (MLRA 149B)
TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 15
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W63EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Betula alleghaniensis, Betula papyrifera.

Total Cover = 15

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Alnus incana, Acer rubrum.

Total Cover = 2

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Viola palmata, Maianthemum canadense, Uvularia sessilifolia, Symphyotrichum laeve.

Total Cover = 30

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows are mostly empty.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FACU, UPL species.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent
Landform: Terrace
Slope (%): See topo map
Latitude: 45.147085
Longitude: -69.8522341
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W63EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought.

SOILS
Map Unit Name: Telos-Chesuncook association, 3 to 15 percent
Series Drainage Class: somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils 1

Restrictive Layer (If Observed)
Type: LEDGE
Depth: 10
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W63EI Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Fraxinus nigra, Acer rubrum, and 7 empty rows.

Total Cover = 15

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Alnus incana, Acer rubrum, and 8 empty rows.

Total Cover = 10

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Calamagrostis canadensis, Phalaris arundinacea, Scirpus cyperinus, Spiraea alba, Onoclea sensibilis, Symphyotrichum novae-angliae, and 9 empty rows.

Total Cover = 132

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include 5 empty rows.

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FAC, FACU, UPL species.

Prevalence Index = B/A = 1.841

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

Additional Remarks:

Empty rectangular box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.145100
Longitude: -69.853
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W67EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15% slopes
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils
A1- Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface
S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other

Restrictive Layer (If Observed) Type: LEDGE Depth: 18
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W67EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Tree Stratum (Acer rubrum, Betula alleghaniensis, Abies balsamea), Sapling/Shrub Stratum (Rubus idaeus), Herb Stratum (Solidago canadensis, Rubus idaeus, Calamagrostis canadensis, etc.), and Woody Vine Stratum.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index Worksheet

Total % Cover of: OBL spp. 5 x 1 = 5
FACW spp. 0 x 2 = 0
FAC spp. 15 x 3 = 45
FACU spp. 52 x 4 = 208
UPL spp. 0 x 5 = 0
Total 72 (A) 258 (B)
Prevalence Index = B/A = 3.583

Hydrophytic Vegetation Indicators:

- Yes No Rapid Test for Hydrophytic Vegetation
Yes No Dominance Test is > 50%
Yes No Prevalence Index is <= 3.0 *
Yes No Morphological Adaptations (Explain) *
Yes No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

- Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No

Remarks:

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.143541°
Longitude: -69.850896°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W67EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes
Series Drainage Class: somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: NR Depth: 18
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W67EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Tree Stratum (Plot size: 10 meter radius).

Total Cover = 0

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Sapling/Shrub Stratum (Plot size: 5 meter radius).

Total Cover = 0

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 for Herb Stratum (Plot size: 2 meter radius).

Total Cover = 70

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 for Woody Vine Stratum (Plot size: 10 meter radius).

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of and Multiply by calculations for OBL, FACW, FAC, and UPL species.

Prevalence Index = B/A = 1.643

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.145100
Longitude: -69.853
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W68E1
Sample Point: Upland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present):
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15% slopes
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam). Row 1: 0, 16, --, 10YR, 5/3, 100, --, --, --, --, --, fine sandy loam.

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils 1
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Muck Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B), S9 - Thin Dark Surface (LRR R, MLRA 149B), F1 - Loamy Mucky Mineral (LRR K, L), F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B), A16 - Coast Prairie Redox (LRR K, L, R), S3 - 5cm Mucky Peat of Peat (LRR K, L, R), S7 - Dark Surface (LRR K, L, M), S8 - Polyvalue Below Surface (LRR K, L), S9 - Thin Dark Surface (LRR K, L), F12 - Iron-Manganese Masses (LRR K, L, R), F19 - Piedmont Floodplain Soils (MLRA 149B), TA6 - Mesic Spodic (MLRA 144A, 145, 149B), TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 16
Hydric Soil Present?
Remarks:



WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

TETRA TECH

Project/Site: Western Maine Renewable Energy Project Wetland ID: W68EI Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)				
Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		0		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		0		
Herb Stratum (Plot size: 2 meter radius)				
1.	<i>Solidago canadensis</i>	20	Y	FACU
2.	<i>Rubus idaeus</i>	10	Y	FACU
3.	<i>Calamagrostis canadensis</i>	5	N	OBL
4.	<i>Symphytotrichum laeve</i>	5	N	FACU
5.	<i>Maianthemum canadense</i>	2	N	FACU
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		42		
Woody Vine Stratum (Plot size: 10 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
Total Cover =		0		
Remarks:				

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL spp.	5		x	1 =	5
FACW spp.	0		x	2 =	0
FAC spp.	0		x	3 =	0
FACU spp.	37		x	4 =	148
UPL spp.	0		x	5 =	0

Total 42 (A) 153 (B)

Prevalence Index = B/A = 3.643

Hydrophytic Vegetation Indicators:

Yes No Rapid Test for Hydrophytic Vegetation

Yes No Dominance Test is > 50%

Yes No Prevalence Index is ≤ 3.0 *

Yes No Morphological Adaptations (Explain) *

Yes No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No

Additional Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes
Local Relief: Linear
NW1/WWI Classification: PEM
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W68EI
Sample Point: Wetland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present? [x] Yes [] No
Wetland Hydrology Present? [x] Yes [] No
Hydric Soils Present? [x] Yes [] No
Is This Sampling Point Within A Wetland? [x] Yes [] No

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present) []
Primary:
[] A1 - Surface Water
[] A2 - High Water Table
[x] A3 - Saturation
[x] B1 - Water Marks
[] B2 - Sediment Deposits
[] B3 - Drift Deposits
[] B4 - Algal Mat or Crust
[] B5 - Iron Deposits
[] B7 - Inundation Visible on Aerial Imagery
[] B8 - Sparsely Vegetated Concave Surface
Secondary:
[] B6 - Surface Soil Cracks
[] B10 - Drainage Patterns
[] B15 - Marl Deposits
[] C1 - Hydrogen Sulfide Odor
[] C3 - Oxidized Rhizospheres on Living Roots
[] C4 - Presence of Reduced Iron
[] C6 - Recent Iron Reduction in Tilled Soils
[] C7 - Thin Muck Surface
[] Other (Explain in Remarks)

Field Observations:
Surface Water Present? [] Yes [x] No
Water Table Present? [] Yes [x] No
Saturation Present? [x] Yes [] No
Depth: 8 (in.)
Wetland Hydrology Present? [x] Yes [] No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes
Series Drainage Class: somewhat poorly drained

Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Row 1: 0, 16, --, 10YR, 2/1, 100, --, --, --, --, --, muck.

NRCS Hydric Soil Field Indicators (check here if indicators are not present) [x]
Indicators for Problematic Soils 1
[x] A1 - Histosol
[] A2 - Histic Epipedon
[] A3 - Black Histic
[] A4 - Hydrogen Sulfide
[] A5 - Stratified Layers
[] A11 - Depleted Below Dark Surface
[] A12 - Thick Dark Surface
[] S1 - Sandy Muck Mineral
[] S4 - Sandy Gleyed Matrix
[] S5 - Sandy Redox
[] S6 - Stripped Matrix
[] S7 - Dark Surface (LRR R, MLRA 149B)
[] S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
[] S9 - Thin Dark Surface (LRR R, MLRA 149B)
[] F1 - Loamy Mucky Mineral (LRR K, L)
[] F2 - Loamy Gleyed Matrix
[] F3 - Depleted Matrix
[] F6 - Redox Dark Surface
[] F7 - Depleted Dark Surface
[] F8 - Redox Depressions
[] A10 - 2 cm Muck (LRR K, L, MLRA 149B)
[] A16 - Coast Prairie Redox (LRR K, L, R)
[] S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
[] S7 - Dark Surface (LRR K, L, M)
[] S8 - Polyvalue Below Surface (LRR K, L)
[] S9 - Thin Dark Surface (LRR K, L)
[] F12 - Iron-Manganese Masses (LRR K, L, R)
[] F19 - Piedmont Floodplain Soils (MLRA 149B)
[] TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
[] TF2 - Red Parent Material
[] TF12 - Very Shallow Dark Surface
[] Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 16
Hydric Soil Present? [x] Yes [] No

Remarks:

1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W68EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 showing various species with 0% cover.

Total Cover = 0

Sapling/Shrub Stratum (Plot size: 5 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 showing various species with 0% cover.

Total Cover = 0

Herb Stratum (Plot size: 2 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 listing species like Typha angustifolia, Calamagrostis canadensis, etc.

Total Cover = 62

Woody Vine Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 showing no species.

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Total % Cover of:

Multiply by:

Calculation table for Prevalence Index: OBL spp. 42 x 1 = 42, FACW spp. 15 x 2 = 30, FAC spp. 5 x 3 = 15, FACU spp. 0 x 4 = 0, UPL spp. 0 x 5 = 0.

Total 62 (A) 87 (B)

Prevalence Index = B/A = 1.403

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15% slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.145100
Longitude: -69.853
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W71E1
Sample Point: Upland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present):
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS
Map Unit Name: Telos-Chesuncook association, 3 to 15% slopes
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils 1
Restrictive Layer (if Observed) Type: LEDGE Depth: 18
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W71EI Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)
Tree Stratum (Plot size: 10 meter radius)
Species Name % Cover Dominant Ind. Status
1. Acer rubrum 5 N FAC
2. Betula alleghaniensis 5 N FAC
3. Abies balsamea 5 N FAC
...
Total Cover = 15
Sapling/Shrub Stratum (Plot size: 5 meter radius)
1. Rubus idaeus 10 Y FACU
...
Total Cover = 10
Herb Stratum (Plot size: 2 meter radius)
1. Solidago canadensis 20 Y FACU
2. Rubus idaeus 10 Y FACU
3. Calamagrostis canadensis 5 N OBL
...
Total Cover = 47
Woody Vine Stratum (Plot size: 10 meter radius)
1. -- -- --
...
Total Cover = 0
Remarks:

Dominance Test Worksheet
Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index Worksheet
Total % Cover of:
OBL spp. 5 x 1 = 5
FACW spp. 0 x 2 = 0
FAC spp. 15 x 3 = 45
FACU spp. 52 x 4 = 208
UPL spp. 0 x 5 = 0
Total 72 (A) 258 (B)
Prevalence Index = B/A = 3.583

Hydrophytic Vegetation Indicators:
[] Yes [x] No Rapid Test for Hydrophytic Vegetation
[] Yes [x] No Dominance Test is > 50%
[] Yes [x] No Prevalence Index is ≤ 3.0 *
[] Yes [x] No Morphological Adaptations (Explain) *
[] Yes [x] No Problem Hydrophytic Vegetation (Explain) *
* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No

Additional Remarks:



Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes
Local Relief: Linear
Slope (%): See topo map
Latitude: 45.143541°
Longitude: -69.850896°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W71E1
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present)
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth:
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS
Map Unit Name:
Series Drainage Class: somewhat poorly drained
Taxonomy (Subgroup):

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Muck Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed)
Type:
Depth: 18
Hydric Soil Present?



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W71E1

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Tree Stratum (Plot size: 10 meter radius). Total Cover = 0.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Total % Cover of: Multiply by:
OBL spp. 35 x 1 = 35
FACW spp. 25 x 2 = 50
FAC spp. 10 x 3 = 30
FACU spp. 0 x 4 = 0
UPL spp. 0 x 5 = 0
Total 70 (A) 115 (B)
Prevalence Index = B/A = 1.643

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-10 for Sapling/Shrub Stratum (Plot size: 5 meter radius). Total Cover = 0.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-15 for Herb Stratum (Plot size: 2 meter radius). Total Cover = 70.

Definitions of Vegetation Strata:

- Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in height.

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows 1-5 for Woody Vine Stratum (Plot size: 10 meter radius). Total Cover = 0.

Hydrophytic Vegetation Present [checked] Yes [] No

Remarks:

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook-Elliottsville association, 3 to 15 percent slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.14626951800
Longitude: -69.865158585
Datum: NAD 83
Project #: 194-7130
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W81EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary:
Secondary:
Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook-Elliottsville association, 3 to 15 percent slopes, very stony
Series Drainage Class: Well Drained

Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils 1
Restrictive Layer (If Observed) Type: LEDGE Depth: 8
Hydric Soil Present?

Restrictive Layer (If Observed) Type: LEDGE Depth: 8

Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W81EI

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Larix laricina, Picea rubens, Fraxinus pennsylvanica.

Dominance Test Worksheet. Includes calculations for Number of Dominant Species that are OBL, FACW, or FAC (1), Total Number of Dominant Species Across All Strata (2), and Percent of Dominant Species That Are OBL, FACW, or FAC (50.0%).

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Includes Acer rubrum.

Prevalence Index Worksheet. Includes calculations for Total % Cover of OBL, FACW, FAC, and UPL species, and the resulting Prevalence Index = 3.151.

Table for Herb Stratum (Plot size: 2 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Includes Aralia nudicaulis, Phegopteris hexagonoptera, Tsuga canadensis.

Hydrophytic Vegetation Indicators. Checklist for Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations, and Problem Hydrophytic Vegetation.

Table for Woody Vine Stratum (Plot size: 10 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. All entries are blank.

Definitions of Vegetation Strata. Definitions for Tree, Sapling/Shrub, Herb, and Woody Vines.

Remarks:

Additional Remarks:

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.148580
Longitude: -69.8618612
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W81EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 14
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W81EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Picea mariana, Picea rubens, Betula alleghaniensis.

Total Cover = 70

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Acer rubrum, Thuja occidentalis.

Total Cover = 10

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Phegopteris hexagonoptera, Tiarella cordifolia, Osmundastrum cinnamomeum, Onoclea sensibilis, Osmunda spectabilis, Calamagrostis canadensis, Cornus canadensis.

Total Cover = 39

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include empty entries.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet with columns: Total % Cover of, Multiply by, and results for OBL, FACW, FAC, UPL species.

Prevalence Index = B/A = 2.706

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.15494990000
Longitude: -69.852701855
Datum: NAD 83
NW/WWI Classification: Upland
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W92EI
Sample Point: Upland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought; wetland occurs within USAF Radar Station field

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Muck Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface
S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
Indicators for Problematic Soils: A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:



WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

TETRA TECH

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W92EI

Sample Point **Upland**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Tsuga canadensis</i>	10	Y	FACU
2.	<i>Thuja occidentalis</i>	5	N	FACW
3.	<i>Betula papyrifera</i>	10	Y	FACU
4.	<i>Acer rubrum</i>	5	N	FAC
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		30		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Thuja occidentalis</i>	15	Y	FACW
2.	<i>Betula papyrifera</i>	20	Y	FACU
3.	<i>Ilex verticillata</i>	5	N	FACW
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		40		
Herb Stratum (Plot size: 2 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Clintonia borealis</i>	10	Y	FAC
2.	<i>Cornus canadensis</i>	10	Y	FAC
3.	<i>Symphoricarpos ericoides</i>	10	Y	FACU
4.	<i>Medeola virginiana</i>	10	Y	FACU
5.	<i>Maianthemum canadense</i>	5	N	FACU
6.	<i>Osmunda claytoniana</i>	10	Y	FAC
7.	<i>Symphoricarpos albus</i>	5	N	FACU
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		60		
Woody Vine Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
Total Cover =		0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 9 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 44.4% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	25	x 2 =	50
FAC spp.	35	x 3 =	105
FACU spp.	70	x 4 =	280
UPL spp.	0	x 5 =	0
Total		130 (A)	435 (B)
Prevalence Index = B/A =		<u>3.346</u>	

Hydrophytic Vegetation Indicators:

- Yes No Rapid Test for Hydrophytic Vegetation
- Yes No Dominance Test is > 50%
- Yes No Prevalence Index is ≤ 3.0 *
- Yes No Morphological Adaptations (Explain) *
- Yes No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No

Remarks:

Additional Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.155391°
Longitude: -69.852149°
Datum: NAD 83
NW/WWI Classification: PFO
Local Relief: Linear
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W92EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic?
Are normal circumstances present?

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: Statewide drought; wetland occurs within USAF Radar Station field

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary:
Secondary:
Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods
Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)
Table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils 1
Restrictive Layer (If Observed)
Type: NR
Depth:
Hydric Soil Present?
Remarks:

1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

TETRA TECH

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W92EI

Sample Point **Wetland**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Thuja occidentalis</i>	20	Y	FACW
2.	<i>Betula alleghaniensis</i>	15	Y	FAC
3.	<i>Picea mariana</i>	10	Y	FACW
4.	<i>Pinus strobus</i>	2	N	FACU
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		47		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Spiraea alba</i>	10	Y	FACW
2.	<i>Thuja occidentalis</i>	15	Y	FACW
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		25		
Herb Stratum (Plot size: 2 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Scirpus cyperinus</i>	10	Y	OBL
2.	<i>Eutrochium fistulosum</i>	5	N	FACW
3.	<i>Achillea millefolium</i>	10	Y	FACU
4.	<i>Onoclea sensibilis</i>	20	Y	FACW
5.	<i>Carex stricta</i>	5	N	OBL
6.	<i>Anaphalis margaritacea</i>	5	N	FACU
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		55		
Woody Vine Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
Total Cover =		0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 7 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)

Prevalence Index Worksheet

<u>Total % Cover of:</u>		<u>Multiply by:</u>	
OBL spp.	<u>15</u>	x 1 =	<u>15</u>
FACW spp.	<u>80</u>	x 2 =	<u>160</u>
FAC spp.	<u>15</u>	x 3 =	<u>45</u>
FACU spp.	<u>17</u>	x 4 =	<u>68</u>
UPL spp.	<u>0</u>	x 5 =	<u>0</u>
Total		<u>127</u> (A)	<u>288</u> (B)
Prevalence Index = B/A =		<u>2.268</u>	

- Hydrophytic Vegetation Indicators:**
- | | | |
|---|--|--|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Rapid Test for Hydrophytic Vegetation |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Dominance Test is > 50% |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Prevalence Index is ≤ 3.0 * |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Morphological Adaptations (Explain) * |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Problem Hydrophytic Vegetation (Explain) * |
- * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No

Remarks:

Additional Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Monarda-Burnham complex, 0 to 3 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.15602402400
Longitude: -69.852326
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W98EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought; occurs in USAF Radar Station field
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Burnham complex, 0 to 3 percent slopes, very stony
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix Color (Moist), Matrix %, Matrix %, Mottles Color (Moist), Mottles %, Mottles Type, Mottles Location, Texture (e.g. clay, sand, loam). Rows show soil profile data from 0 to 11 inches depth.

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils 1
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
S9 - Thin Dark Surface (LRR R, MLRA 149B)
F1 - Loamy Mucky Mineral (LRR K, L)
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B)
A16 - Coast Prairie Redox (LRR K, L, R)
S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
S7 - Dark Surface (LRR K, L, M)
S8 - Polyvalue Below Surface (LRR K, L)
S9 - Thin Dark Surface (LRR K, L)
F12 - Iron-Manganese Masses (LRR K, L, R)
F19 - Piedmont Floodplain Soils (MLRA 149B)
TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 9
Hydric Soil Present?
Remarks:

1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

TETRA TECH

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W98EI

Sample Point **Upland**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Acer rubrum</i>	15	Y	FAC
2.	<i>Thuja occidentalis</i>	5	N	FACW
3.	<i>Betula papyrifera</i>	15	Y	FACU
4.	<i>Tsuga canadensis</i>	15	Y	FACU
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		50		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
1.	<i>Acer rubrum</i>	5	N	FAC
2.	<i>Ilex verticillata</i>	5	N	FACW
3.	<i>Tsuga canadensis</i>	5	N	FACU
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		15		
Herb Stratum (Plot size: 2 meter radius)				
1.	<i>Cornus canadensis</i>	80	Y	FAC
2.	<i>Scirpus cyperinus</i>	10	N	OBL
3.	<i>Symphotrichum ericoides</i>	15	N	FACU
4.	<i>Gaultheria hispidula</i>	20	Y	FACW
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		125		
Woody Vine Stratum (Plot size: 10 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
Total Cover =		0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index Worksheet

<u>Total % Cover of:</u>		<u>Multiply by:</u>	
OBL spp.	<u>10</u>	x 1 =	<u>10</u>
FACW spp.	<u>30</u>	x 2 =	<u>60</u>
FAC spp.	<u>100</u>	x 3 =	<u>300</u>
FACU spp.	<u>50</u>	x 4 =	<u>200</u>
UPL spp.	<u>0</u>	x 5 =	<u>0</u>
Total <u>190</u> (A)		<u>570</u> (B)	
Prevalence Index = B/A =		<u>3.000</u>	

Hydrophytic Vegetation Indicators:

- Yes No Rapid Test for Hydrophytic Vegetation
- Yes No Dominance Test is > 50%
- Yes No Prevalence Index is ≤ 3.0 *
- Yes No Morphological Adaptations (Explain) *
- Yes No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No

Remarks:

Additional Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.156135°
Longitude: -69.852196°
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W98EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Remarks: Statewide drought; occurs in USAF Radar Station field
Hydic Soils Present?
Is This Sampling Point Within A Wetland?

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Series Drainage Class: Poorly drained
Taxonomy (Subgroup): Loamy, mixed, active, acid, frigid, shallow Aeric Endoaquepts

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Muck Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F1 - Loamy Mucky Mineral
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck
A16 - Coast Prairie Redox
S3 - 5cm Mucky Peat of Peat
S7 - Dark Surface
S8 - Polyvalue Below Surface
S9 - Thin Dark Surface
F12 - Iron-Manganese Masses
F19 - Piedmont Floodplain Soils
TA6 - Mesic Spodic
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: NR Depth:
Hydic Soil Present?
Remarks:

1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

TETRA TECH

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W98EI

Sample Point **Wetland**

VEGETATION (Species identified in all uppercase are non-native species.)				
Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Salix bebbiana</i>	10	Y	FACW
2.	<i>Thuja occidentalis</i>	10	N	FACW
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		20		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
1.	<i>Thuja occidentalis</i>	10	Y	FACW
2.	<i>Salix bebbiana</i>	5	N	FACW
3.	<i>Ilex verticillata</i>	5	N	FACW
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		20		
Herb Stratum (Plot size: 2 meter radius)				
1.	<i>Equisetum arvense</i>	5	N	FAC
2.	<i>Scirpus cyperinus</i>	80	Y	OBL
3.	<i>Symphotrichum novae-angliae</i>	5	N	FACW
4.	<i>Spiraea alba</i>	20	Y	FACW
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		110		
Woody Vine Stratum (Plot size: 10 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
Total Cover =		0		
Remarks:				

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

<u>Total % Cover of:</u>		<u>Multiply by:</u>	
OBL spp.	80	x 1 =	80
FACW spp.	65	x 2 =	130
FAC spp.	5	x 3 =	15
FACU spp.	0	x 4 =	0
UPL spp.	0	x 5 =	0
Total		<u>150</u> (A)	<u>225</u> (B)
		Prevalence Index = B/A =	<u>1.500</u>

Hydrophytic Vegetation Indicators:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Rapid Test for Hydrophytic Vegetation
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Dominance Test is > 50%
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Prevalence Index is ≤ 3.0 *
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Morphological Adaptations (Explain) *
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Monarda-Burnham complex, 0 to 3 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.15602402400
Longitude: -69.852326
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W99EI
Sample Point: Upland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present):
Primary:
Secondary:
A1 - Surface Water
A2 - High Water Table
A3 - Saturation
B1 - Water Marks
B2 - Sediment Deposits
B3 - Drift Deposits
B4 - Algal Mat or Crust
B5 - Iron Deposits
B7 - Inundation Visible on Aerial Imagery
B8 - Sparsely Vegetated Concave Surface
B9 - Water-Stained Leaves
B13 - Aquatic Fauna
B15 - Marl Deposits
C1 - Hydrogen Sulfide Odor
C3 - Oxidized Rhizospheres on Living Roots
C4 - Presence of Reduced Iron
C6 - Recent Iron Reduction in Tilled Soils
C7 - Thin Muck Surface
Other (Explain in Remarks)
B6 - Surface Soil Cracks
B10 - Drainage Patterns
B16 - Moss Trim Lines
C2 - Dry-Season Water Table
C8 - Crayfish Burrows
C9 - Saturation Visible on Aerial Imagery
D1 - Stunted or Stressed Plants
D2 - Geomorphic Position
D3 - Shallow Aquitard
D4 - Microtopographic Relief
D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Burnham complex, 0 to 3 percent slopes, very stony
Series Drainage Class: Well Drained
Taxonomy (Subgroup): Loamy, isotic, frigid Lithic Haplohumods

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %), Type, Location, Texture (e.g. clay, sand, loam). Rows show soil profile data from 0 to 12 inches depth.

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils 1
A1 - Histosol
A2 - Histic Epipedon
A3 - Black Histic
A4 - Hydrogen Sulfide
A5 - Stratified Layers
A11 - Depleted Below Dark Surface
A12 - Thick Dark Surface
S1 - Sandy Mucky Mineral
S4 - Sandy Gleyed Matrix
S5 - Sandy Redox
S6 - Stripped Matrix
S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B)
S9 - Thin Dark Surface (LRR R, MLRA 149B)
F1 - Loamy Mucky Mineral (LRR K, L)
F2 - Loamy Gleyed Matrix
F3 - Depleted Matrix
F6 - Redox Dark Surface
F7 - Depleted Dark Surface
F8 - Redox Depressions
A10 - 2 cm Muck (LRR K, L, MLRA 149B)
A16 - Coast Prairie Redox (LRR K, L, R)
S3 - 5cm Mucky Peat of Peat (LRR K, L, R)
S7 - Dark Surface (LRR K, L, M)
S8 - Polyvalue Below Surface (LRR K, L)
S9 - Thin Dark Surface (LRR K, L)
F12 - Iron-Manganese Masses (LRR K, L, R)
F19 - Piedmont Floodplain Soils (MLRA 149B)
TA6 - Mesic Spodic (MLRA 144A, 145, 149B)
TF2 - Red Parent Material
TF12 - Very Shallow Dark Surface
Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present?

Remarks:

1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

TETRA TECH

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W99EI

Sample Point **Upland**

VEGETATION (Species identified in all uppercase are non-native species.)				
Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Picea rubens</i>	5	N	FACU
2.	<i>Picea mariana</i>	5	N	FACW
3.	<i>Acer rubrum</i>	5	N	FAC
4.	<i>Tsuga canadensis</i>	1	N	FACU
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		16		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
1.	<i>Betula papyrifera</i>	25	Y	FACU
2.	<i>Salix alba</i>	5	N	FACW
3.	<i>Tsuga canadensis</i>	1	N	FACU
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		31		
Herb Stratum (Plot size: 2 meter radius)				
1.	<i>Anaphalis margaritacea</i>	20	N	FACU
2.	<i>Vicia americana</i>	5	N	FACU
3.	<i>Solidago canadensis</i>	20	N	FACU
4.	<i>Galium aparine</i>	50	Y	FACU
5.	<i>Trifolium pratense</i>	30	Y	FACU
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		125		
Woody Vine Stratum (Plot size: 10 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
Total Cover =		0		
Remarks:				

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index Worksheet

<u>Total % Cover of:</u>		<u>Multiply by:</u>	
OBL spp.	<u>0</u>	x 1 =	<u>0</u>
FACW spp.	<u>10</u>	x 2 =	<u>20</u>
FAC spp.	<u>5</u>	x 3 =	<u>15</u>
FACU spp.	<u>157</u>	x 4 =	<u>628</u>
UPL spp.	<u>0</u>	x 5 =	<u>0</u>
Total <u>172</u> (A)			<u>663</u> (B)
		Prevalence Index = B/A =	<u>3.855</u>

Hydrophytic Vegetation Indicators:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Rapid Test for Hydrophytic Vegetation
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Dominance Test is > 50%
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Prevalence Index is ≤ 3.0 *
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Morphological Adaptations (Explain) *
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project
Applicant: Western Maine Renewables, LLC
Investigator #1: Emmy Irvin
Investigator #2:
Soil Unit: Telos-Chesuncook association, 3 to 15 percent slopes
Landform: Terrace
Slope (%): See topo map
Latitude: 45.140609
Longitude: -69.8499599
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W99EI
Sample Point: Wetland
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are normal circumstances present?

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought; occurs in USAF Radar Station field

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Telos-Chesuncook association, 3 to 15 percent slopes
Series Drainage Class: somewhat poorly drained
Taxonomy (Subgroup): Loamy, isotic, frigid, shallow Aquic Haplorthods

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: ledge Depth: 10
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project

Wetland ID: W99EI

Sample Point Wetland

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Larix laricina, Betula alleghaniensis, Picea mariana.

Total Cover = 35

Sapling/Shrub Stratum (Plot size: 5 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Salix bebbiana, Spiraea alba, Populus tremuloides.

Total Cover = 55

Herb Stratum (Plot size: 2 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Symphyotrichum novae-angliae, Phalaris arundinacea, Osmunda claytoniana.

Total Cover = 95

Woody Vine Stratum (Plot size: 10 meter radius)

Table with 5 columns: Species Name, % Cover, Dominant, Ind. Status. All entries are --.

Total Cover = 0

Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Total % Cover of:

Multiply by:

Calculation table for Prevalence Index: OBL spp. 0 x 1 = 0, FACW spp. 135 x 2 = 270, FAC spp. 40 x 3 = 120, FACU spp. 10 x 4 = 40, UPL spp. 0 x 5 = 0.

Total 185 (A) 430 (B)

Prevalence Index = B/A = 2.324

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

Additional Remarks:

Empty box for additional remarks.



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Moscow Renewable Energy Project
Applicant: Patriot Renewables
Investigator #1: Nicc Johnson
Investigator #2: Emmy Irvin
Soil Unit: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.136905
Longitude: -69.8302848
Datum: NAD 83
Date: 09/09/20
County: Somerset
State: ME
Wetland ID: W08NJ
Sample Point: Upland

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present)
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, B16 - Moss Trim Lines, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D3 - Shallow Aquitard, D4 - Microtopographic Relief, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Depth: (in.)
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, mixed, active, acid, frigid, shallow Aeris Endoaquepts

Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present)
Indicators for Problematic Soils 1
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F1 - Loamy Mucky Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A10 - 2 cm Muck, A16 - Coast Prairie Redox, S3 - 5cm Mucky Peat of Peat, S7 - Dark Surface, S8 - Polyvalue Below Surface, S9 - Thin Dark Surface, F12 - Iron-Manganese Masses, F19 - Piedmont Floodplain Soils, TA6 - Mesic Spodic, TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: Ledge Depth: 12
Hydric Soil Present?

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Moscow Renewable Energy Project

Wetland ID: W08NJ

Sample Point Upland

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Betula populifolia, Betula papyrifera, Picea rubens, and others.

Total Cover = 60

Table for Sapling/Shrub Stratum (Plot size: 5 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Table for Herb Stratum (Plot size: 2 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status. Rows include Solidago canadensis, Rubus idaeus, Anaphalis margaritacea, and Lupinus polyphyllus.

Total Cover = 55

Table for Woody Vine Stratum (Plot size: 10 meter radius) with columns: Species Name, % Cover, Dominant, Ind. Status.

Total Cover = 0

Remarks:

Additional Remarks:

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of OBL, FACW, FAC, and UPL spp. with multiplication factors and results.

Prevalence Index = B/A = 3.652

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [] Yes [x] No



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Moscow Renewable Energy Project
Applicant: Patriot Renewables
Investigator #1: Nicc Johnson
Investigator #2: Emmy Irvin
Date: 09/09/20
County: Somerset
State: ME
Soil Unit: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Landform: Terrace
Slope (%): See topo map
Latitude: 45.134615
Longitude: -69.8400239
Datum: NAD 83
NWII/WWI Classification: PEM/PSS/OW
Wetland ID: W08NJ
Sample Point: WET

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present? [x] Yes [] No
Wetland Hydrology Present? [x] Yes [] No
Hydric Soils Present? [x] Yes [] No
Is This Sampling Point Within A Wetland? [x] Yes [] No

Remarks: Statewide drought

HYDROLOGY

Wetland Hydrology Indicators (Check here if indicators are not present []
Primary: [x] A1 - Surface Water, [] A2 - High Water Table, [x] A3 - Saturation, [] B1 - Water Marks, [] B2 - Sediment Deposits, [] B3 - Drift Deposits, [] B4 - Algal Mat or Crust, [] B5 - Iron Deposits, [] B7 - Inundation Visible on Aerial Imagery, [] B8 - Sparsely Vegetated Concave Surface
Secondary: [] B6 - Surface Soil Cracks, [] B10 - Drainage Patterns, [] B16 - Moss Trim Lines, [] C2 - Dry-Season Water Table, [] C8 - Crayfish Burrows, [] C9 - Saturation Visible on Aerial Imagery, [] D1 - Stunted or Stressed Plants, [] D2 - Geomorphic Position, [] D3 - Shallow Aquitard, [] D4 - Microtopographic Relief, [] D5 - FAC-Neutral Test

Field Observations:
Surface Water Present? [x] Yes [] No Depth: NR (in.)
Water Table Present? [] Yes [x] No Depth: (in.)
Saturation Present? [x] Yes [] No Depth: 0 (in.)
Wetland Hydrology Present? [x] Yes [] No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A

Remarks: Statewide drought

SOILS

Map Unit Name: Monarda-Telos complex, 0 to 8 percent slopes, very stony
Series Drainage Class: Somewhat poorly drained
Taxonomy (Subgroup): Loamy, mixed, active, acid, frigid, shallow Aeric Endoaquepts

Table with 12 columns: Top Depth, Bottom Depth, Horizon, Matrix (Color (Moist), %), Mottles (Color (Moist), %, Type, Location), Texture (e.g. clay, sand, loam). Row 1: 0, 12, --, --, --, --, --, --, --, --, --, muck.

NRCS Hydric Soil Field Indicators (check here if indicators are not present []
A1- Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Mucky Mineral, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, S7 - Dark Surface (LRR R, MLRA 149B)
S8 - Polyvalue Below Surface (LRR R, MLRA 149B), S9 - Thin Dark Surface (LRR R, MLRA 149B), F1 - Loamy Mucky Mineral (LRR K, L), F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions
Indicators for Problematic Soils 1: A10 - 2 cm Muck (LRR K, L, MLRA 149B), A16 - Coast Prairie Redox (LRR K, L, R), S3 - 5cm Mucky Peat of Peat (LRR K, L, R), S7 - Dark Surface (LRR K, L, M), S8 - Polyvalue Below Surface (LRR K, L), S9 - Thin Dark Surface (LRR K, L), F12 - Iron-Manganese Masses (LRR K, L, R), F19 - Piedmont Floodplain Soils (MLRA 149B), TA6 - Mesic Spodic (MLRA 144A, 145, 149B), TF2 - Red Parent Material, TF12 - Very Shallow Dark Surface, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: LEDGE Depth: 12
Hydric Soil Present? [x] Yes [] No

Remarks:



TETRA TECH

WETLAND DETERMINATION DATA FORM
Northeast and Northcentral Region

Project/Site: Moscow Renewable Energy Project

Wetland ID: W08NJ

Sample Point WET

VEGETATION (Species identified in all uppercase are non-native species.)

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Includes Tree Stratum (Plot size: 10 meter radius) with 10 rows of data.

Total Cover = 5

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Includes Sapling/Shrub Stratum (Plot size: 5 meter radius) with 10 rows of data.

Total Cover = 15

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Includes Herb Stratum (Plot size: 2 meter radius) with 15 rows of data.

Total Cover = 205

Table with columns: Species Name, % Cover, Dominant, Ind. Status. Includes Woody Vine Stratum (Plot size: 10 meter radius) with 5 rows of data.

Total Cover = 0

Remarks:

Additional Remarks:

Empty rectangular box for additional remarks.

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Table for Prevalence Index Worksheet showing Total % Cover of (OBL, FACW, FACU, UPL spp.) and Multiply by (1-5) results, leading to a Prevalence Index of 1.311.

Hydrophytic Vegetation Indicators:

- Checkboxes for indicators: Rapid Test for Hydrophytic Vegetation, Dominance Test is > 50%, Prevalence Index is <= 3.0, Morphological Adaptations (Explain), Problem Hydrophytic Vegetation (Explain).

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present [checked] Yes [] No

EXHIBIT 7-6 AQUATIC RESOURCES PHOTOGRAPHIC LOG

Appendix D

Western Maine Renewable Energy Project

Impacted Resources Photographs

Wetlands

Photo: 01

Description: Wetland W12EI is a forested wetland that is adjacent to a gravel road.

Date: June 16, 2020

Source: Tetra Tech, Inc.



Photo: 02

Description: Wetland W17DS, located adjacent to clearing near USAF Radar Station field road berm.

Date: June 2, 2020

Source: Tetra Tech, Inc.



Appendix D Western Maine Renewable Energy Project Impacted Resources Photographs

Photo: 03

Description: Wetland
W18EI is a forested
wetland.

Date: June 4, 2020

Source: Tetra Tech, Inc.



Photo: 04

Description: Wetland
W30EI; seepy wetland on
hillslope, disturbed from
timber harvest activities.

Date: June 15, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 05

Description: Wetland
W35EI is a forested
wetland.

Date: June 16, 2020

Source: Tetra Tech, Inc.



Photo: 06

Description: Wetland
W37EI is a forested
wetland.

Date: June 2, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 07

Description: Wetland
W38EI will be impacted by
fill and clearing

Date: June 4, 2020

Source: Tetra Tech, Inc.



Photo: 08

Description: Wetland
W43EI; forested isolated
depression.

Date: June 16, 2020

Source: Tetra Tech, Inc.



Appendix D

Western Maine Renewable Energy Project

Impacted Resources Photographs

Photo: 09

Description: Wetland
W47EI is a forested
wetland.

Date: June 16, 2020

Source: Tetra Tech, Inc.



Photo: 10

Description: Wetland
W48EI is a forested
wetland.

Date: June 16, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 11

Description: Wetland
W51EI is an emergent
wetland.

Date: May 5, 2020

Source: Tetra Tech, Inc.



Photo: 12

Description: Wetland
W52EI is a forested
wetland.

Date: May 5, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 13

Description: Wetland
W61EI; emergent,
naturalized, depression
adjacent to the road.

Date: June 23, 2020

Source: Tetra Tech, Inc.



Photo: 14

Description: Wetland
W63EI is a forested
wetland

Date: June 16, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 15

Description: Wetland
W67EI

Date: June 16, 2020

Source: Tetra Tech, Inc.



Photo: 16

Description: Wetland
W68EI

Date: June 16, 2020

Source: Tetra Tech, Inc.



Appendix D Western Maine Renewable Energy Project Impacted Resources Photographs

Photo: 17

Description: Wetland W71EI is an emergent wetland with beaver activity.

Date: June 22, 2020

Source: Tetra Tech, Inc.



Photo: 18

Description: Wetland W81EI is a forested wetland.

Date: September 22, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 19

Description: Wetland
W92EI is a forested
wetland.

Date: September 22, 2020

Source: Tetra Tech, Inc.



Photo: 20

Description: Wetland
W98EI is a forested
wetland.

Date: September 22, 2020

Source: Tetra Tech, Inc.



Appendix D

Western Maine Renewable Energy Project Impacted Resources Photographs

Photo: 21

Description: Wetland
W99EI is a forested
wetland.

Date: May 5, 2020

Source: Tetra Tech, Inc.



Photo: 22

Description: Wetland
W123NJ is an extension of
a wetland that was
originally located during
the growing season of
2020.

Date: April 27, 2021

Source: Tetra Tech, Inc.



Appendix D Western Maine Renewable Energy Project Impacted Resources Photographs

Photo: 23

Description: Wetland W126EI is an extension of a wetland that was originally located during the growing season of 2020.

Date: April 24, 2021

Source: Tetra Tech, Inc.



Photo: 24

Description: Wetland WET-68-02

Date: May 19, 2021

Source: Ian Broadwater



Appendix D Western Maine Renewable Energy Project Impacted Resources Photographs

Watercourses

Photo: 25

Description: S21EI

Date: July 21, 2020

Source: Tetra Tech, Inc.



Photo: 26

Description: Ephemeral
watercourse S24EI; flows
southeast from wetlands
W49EI to W48EI.

Date: June 17, 2020

Source: Tetra Tech, Inc.



Appendix D
Western Maine Renewable Energy Project
Impacted Resources Photographs

Photo: 27

Description: Watercourse S26EI flows south through a culvert in a road, towards Chase Pond.

Date: June 22, 2020

Source: Tetra Tech, Inc.



Photo: 28

Description: S28EI

Date: June 16, 2020

Source: Tetra Tech, Inc.



Appendix D

Western Maine Renewable Energy Project

Impacted Resources Photographs

Photo: 29

Description: Intermittent watercourse S32EI; crosses the Study Area.

Date: June 22, 2020

Source: Tetra Tech, Inc.



Photo: 30

Description: Watercourse S51EI (Bassett Brook); Photo of the approximately 7-foot culvert outlet with some damage.

Date: September 10 , 2020

Source: Tetra Tech, Inc.



Appendix D Western Maine Renewable Energy Project Impacted Resources Photographs

Photo: 31

Description: Intermittent watercourse S52EI; crosses a road that is proposed for accessing the western turbine locations.

Date: September 23, 2020

Source: Tetra Tech, Inc.



Photo: 32

Description: S53EI

Date: September 23, 2020

Source: Tetra Tech, Inc.



Exhibit 7-7

Wetland Function-Value Evaluation Form – Palustrine Forested -WOSS

Human made? **No** Is wetland part of a wildlife corridor? **No** or a “habitat island”? **No** Wetland ID: **See Table 7-1** Adjacent land use: **Gravel Road, Active Timberland, abandoned radar facility** Distance to nearest roadway or other development? **Some areas are adjacent to roadway, some are 1,500+ feet from roadway** Dominant wetland systems present: **PFO** Contiguous undeveloped buffer zone present: **No** Prepared by: **Emmy Irvin** Is the wetland a separate hydraulic system? **No** If not, where does the wetland lie in the drainage basin: **Generally, ridge line seep wetlands and plateau wetlands** Impact: Type: **Fill** How many tributaries contribute to the wetland? **3** Wildlife & vegetation diversity/abundance: **See Exhibit 7-4 Natural Resources Survey Report, Table 2.**

Wetland Impact: **Type:** Clearing: 791 square feet **Type:** Permanent: 13,566 square feet **Combined Total:** 14,358 square feet

Function/Value	Suitability Y/N	Rational Reference #'s	Principal or Secondary Function	Comments
Groundwater Recharge/Discharge	Y	7, 9, 10	Primary	Some wetlands contain small streams that originate and/or disperse in wetland
Floodflow Alteration	Y	1	secondary	This is a large wetland compared to other wetlands in the area
Fish and Shellfish Habitat	N			Wetlands are not suitable to fish and shellfish habitat
Production Export	N			No exportable products are produced in wetlands
Sediment/Toxicant Retention	Y	1, 10	secondary	Some wetlands contain small streams and flood in the spring
Nutrient Removal	N			Wetlands are not suitable to nutrient removal
Sediment/Shoreline Stabilization	Y	2, 4	secondary	Some wetlands provide bank stabilization to intermittent streams
Wildlife Habitat	Y	5, 7, 8, 20	secondary	Wildlife habitat is abundant in the surrounding area
Educational/Scientific Value	N			Limited potential for educational values
Recreation	N			No potential for recreation associated with wetlands
Uniqueness/Heritage	Y	24		Wetland is, or contains, a WOSS
Visual Quality/Aesthetics	N			Not a visually or aesthetically pleasing wetland
Endangered Species Habitat	N			No listed species habitat is present in wetlands
Other	N			

Wetland Function-Value Evaluation Form – Palustrine Forested – Non-WOSS

Human made? **No** Is wetland part of a wildlife corridor? **No** or a “habitat island”? **No** Wetland ID: **See Table 7-1** Adjacent land use: **Gravel Road, Active Timberland, abandoned radar facility** Distance to nearest roadway or other development? **Some areas are adjacent to roadway, some are 1,500+ feet from roadway** Dominant wetland systems present: **PFO** Contiguous undeveloped buffer zone present: **No** Prepared by: **Emmy Irvin** Is the wetland a separate hydraulic system? **No** If not, where does the wetland lie in the drainage basin: **Generally, ridge line seep wetlands and plateau wetlands** Impact: Type: **Fill** How many tributaries contribute to the wetland? **0** Wildlife & vegetation diversity/abundance: **See Exhibit 7-4 Natural Resources Survey Report, Table 2.**

Wetland Impact: **Type:** Clearing: 1,840 square feet **Type:** Permanent: 17,776 square feet **Combined Total:** 19,616 square feet

Function/Value	Suitability Y/N	Rational Reference #'s	Principal or Secondary Function	Comments
Groundwater Recharge/Discharge	N			Limited potential for groundwater recharge or discharge
Floodflow Alteration	Y	1, 2, 3, 5, 6	Primary	Some wetlands are large compared to other wetlands in the area and are in a relatively flat area that has flood storage potential
Fish and Shellfish Habitat	N			Wetlands are not suitable to fish and shellfish habitat
Production Export	N			No exportable products are produced in wetlands
Sediment/Toxicant Retention	Y	1, 2	secondary	Some wetlands are in previously disturbed area that has potential for erosion
Nutrient Removal	Y	4, 8	secondary	Some wetlands have a dense herbaceous layer in a addition to a think canopy
Sediment/Shoreline Stabilization	Y	3	secondary	Wetland occurs in between roadway and two intermittent or perennial streams
Wildlife Habitat	N	4, 7, 8	secondary	Disturbed wetland in managed forest, other less impacted resources nearby
Educational/Scientific Value	N			Limited potential for educational values
Recreation	N			No potential for recreation associated with wetlands
Uniqueness/Heritage	N			Limited potential for uniqueness or heritage value
Visual Quality/Aesthetics	N			Not a visually or aesthetically pleasing wetland
Endangered Species Habitat	N			No listed species habitat is present in wetlands
Other	N			

Wetland Function-Value Evaluation Form – Palustrine Emergent -Non-WOSS

Human made? **No** Is wetland part of a wildlife corridor? **No** or a “habitat island”? **No** Wetland ID: **See Table 7-1** Adjacent land use: **Gravel Road, Active Timberland, abandoned radar facility** Distance to nearest roadway or other development? **Some areas are adjacent to roadway, some are 1,500+ feet from roadway** Dominant wetland systems present: **PEM** Contiguous undeveloped buffer zone present: **No** Prepared by: **Emmy Irvin** Is the wetland a separate hydraulic system? **No** If not, where does the wetland lie in the drainage basin: **Generally, ridge line seep wetlands and plateau wetlands** Impact: Type: **Fill** How many tributaries contribute to the wetland? **3** Wildlife & vegetation diversity/abundance: **See Exhibit 7-4 Natural Resources Survey Report, Table 2.**

Wetland Impact: Type: Clearing: 9,832 square feet Type: Permanent: 40,734 square feet **Combined Total:** 50,566 square feet

Function/Value	Suitability Y/N	Rational Reference #'s	Principal or Secondary Function	Comments
Groundwater Recharge/Discharge	N			Limited potential for groundwater recharge or discharge
Floodflow Alteration	Y	1, 6, 7, 13	secondary	Some wetlands are large compared to other wetlands in the area and are in a relatively flat area that has flood storage potential and/or have an associated intermittent stream
Fish and Shellfish Habitat	N			Wetlands are not suitable to fish and shellfish habitat
Production Export	N			No exportable products are produced in wetlands
Sediment/Toxicant Retention	Y	1, 2, 10	secondary	Some wetlands occur in the USAF radar field with historic human made disturbances or within man-made roadside ditches
Nutrient Removal	Y	8	Secondary	Some wetlands have a thick herbaceous layer
Sediment/Shoreline Stabilization	N			Wetland occurs in between roadway and two intermittent or perennial streams
Wildlife Habitat	Y	3, 4, 5, 7, 8, 13,17, 21	Primary	Wildlife habitat is abundant in the surrounding area. some wetlands have beaver activity.
Educational/Scientific Value	N			Limited potential for educational values
Recreation	N			No potential for recreation associated with wetlands
Uniqueness/Heritage	N			Limited potential for uniqueness or heritage value
Visual Quality/Aesthetics	N			Not a visually or aesthetically pleasing wetland
Endangered Species Habitat	N			No listed species habitat is present in wetlands
Other	N			

Wetland Function-Value Evaluation Form – Palustrine Emergent--WOSS

Human made? **No** Is wetland part of a wildlife corridor? **No** or a “habitat island”? **No** Wetland ID: **See Table 7-1** Adjacent land use: **Gravel Road, Active Timberland, abandoned radar facility** Distance to nearest roadway or other development? **Some areas are adjacent to roadway, some are 1,500+ feet from roadway** Dominant wetland systems present: **PEM** Contiguous undeveloped buffer zone present: **No** Prepared by: **Emmy Irvin** Is the wetland a separate hydraulic system? **No** If not, where does the wetland lie in the drainage basin: **Generally, ridge line seep wetlands and plateau wetlands** Impact: Type: **Fill** How many tributaries contribute to the wetland? **2** Wildlife & vegetation diversity/abundance: **See Exhibit 7-4 Natural Resources Survey Report, Table 2.**

Wetland Impact: Type: Clearing: 4,088 square feet Type: Permanent: 0 square feet Combined Total: 4,088 square feet

Function/Value	Suitability Y/N	Rational Reference #'s	Principal or Secondary Function	Comments
Groundwater Recharge/Discharge	N			Limited potential for groundwater recharge or discharge
Floodflow Alteration	N	6, 7, 13	Primary	Wetlands have intermittent watercourses associated with them and are in flat areas with flood storage potential
Fish and Shellfish Habitat	N			Wetlands are not suitable to fish and shellfish habitat
Production Export	N			No exportable products are produced in wetlands
Sediment/Toxicant Retention	Y	1, 2, 10	secondary	Some wetlands occur in the USAF radar field with historic human made disturbances or within man-made roadside ditches
Nutrient Removal	N			Some wetlands have a thick herbaceous layer
Sediment/Shoreline Stabilization	N			Limited potential for sediment or shoreline stabilization
Wildlife Habitat	Y	17	Secondary	Some wetlands have signs of beaver activity
Educational/Scientific Value	N			Limited potential for educational values
Recreation	N			No potential for recreation associated with wetlands
Uniqueness/Heritage	N			Limited potential for uniqueness or heritage value
Visual Quality/Aesthetics	N			Not a visually or aesthetically pleasing wetland
Endangered Species Habitat	N			No listed species habitat is present in wetlands
Other	N			