#### ATTACHMENT 1: DESCRIPTION OF ACTIVITY

### A. Project Description

Western Maine Renewables, LLC (Applicant), a joint venture between Patriot Renewables, LLC and Cianbro Development Corporation, proposes to construct the Western Maine Renewable Energy Project (Project), a 14 turbine utility-scale wind energy facility located in the Town of Moscow, Somerset County, Maine (see Attachment 3 Figure 3-1). The proposed Project is located approximately 5 miles northeast of the center of the village of Moscow on land currently comprised of forested timberland and the remnants of a former United States Air Force (USAF) long-range, over-the-horizon backscatter radar transmitter station (USAF Radar Station). The wind facility will have an installed capacity of 58.8 megawatts (MWs) of electricity.

The Project is designed to use Vestas V150-4.2 MW turbines on a 344-foot hub and a maximum turbine blade tip height of 591 feet. As described in greater detail below, other Project features will include: upgrades to existing roads and construction of new roads; an aircraft detection lighting system (ADLS); a series of 34.5 kilovolt (kV) electrical collector lines among the turbines; a 34.5/115 kV Project substation; a 115 kV interconnection substation; an operations and maintenance (O&M) building; and a 12.7 kV overhead electrical distribution line to provide power to the O&M building.

A substantial road network, primarily consisting of gravel logging roads and access roads associated within the former USAF Radar Station, currently exists within the Project area. The Applicant will use existing roads to the extent practicable to minimize Project impacts. Approximately 6.4 miles of existing access roads will be upgraded to provide construction and maintenance access to the Project areas and to connect turbine locations. Additionally, approximately 3.7 miles of new roads will be constructed to further connect turbine locations and access the ADLS towers, and will be maintained by the Applicant.

The Project's ADLS is designed to minimize the effects of the nighttime safety lighting of the turbines. Such systems are approved by the Federal Aviation Administration on a project-by-project basis and allow turbine obstruction lights to remain off unless an aircraft is operating in the vicinity of the Project, thus greatly reducing the time that nighttime lighting is visible. Standard turbine lighting will be installed and tied into the ADLS upon approval of the system by the Federal Aviation Administration. The Project is designed so that one of two ADLS's can be constructed. The specific ADLS are:

- A two-radar transmitter system that will include the construction of two 100-foot permanent lattice towers containing radar transmitters, and approximately 4.85 miles of underground power and fiber optic cable; or
- A one-radar transmitter system that will include the construction of one 150-foot permanent lattice tower
  containing a single radar transmitter, and approximately 0.86 miles of underground power and fiber optic
  cable.

The underground electrical and fiber optic lines to service the ADLS will be installed in 2-inch conduits routed within existing roadways. Below grade boxes will be installed as needed (typically every 1,500 feet) to splice cables and will be installed immediately adjacent to roadways. Boxes will be sited to avoid natural resource locations.

The power from each turbine will be collected in approximately 5.45 miles of 34.5-kV electrical collector lines. The collector lines will primarily be underground, though aboveground lines will be installed in some areas. The underground electrical collector lines will be buried in trenches generally located within roadways. Below grade boxes will be installed as needed (typically every 1,500 feet) to splice collector cables and will be installed immediately adjacent to roadways. Boxes will be sited to avoid natural resource locations. Underground fiber optic

communications cables will be installed in typical 2-inch conduits routed adjacent to the electrical collector lines, and the fiber optic cables will require splice/pull boxes. Overhead collector lines will be installed on wood utility poles in some areas where practicable.

Power from the collector lines will be transmitted to a new substation facility that includes a fenced 34.5/115 kV Project substation to "step up" the power from 34.5 kV to 115 kV, and an adjacent 115 kV interconnection substation to transmit directly into the Central Maine Power (CMP) Section 222 transmission line. The Section 222 transmission line is an existing 115 kV transmission line that can accept power from the Project.

The Project will renovate one of the existing USAF Radar Station buildings to serve as the Project's O&M building. The renovation will include the construction of new interior walls to create office, meeting and equipment storage spaces; the installation of new overhead doors to access the equipment storage area; and the construction of a new fenced gravel storage and parking area. The renovation will include the construction of a new wastewater disposal system for the building. Power to the O&M building will be provided by re-energizing a 0.46-mile section of the existing 12.7 kV overhead distribution line from the USAF Radar Station.

This application has been completed in accordance with the State of Maine Department of Environmental Protection (MDEP) Natural resources protection Act (NRPA) Permit Application requirements as outlined in Maine Revised Statutes Title 38 M.R.S.  $\S\S$  480-A - 480-BB $^1$ .

The Applicant is seeking approval under NRPA to permanently fill 72,081 square feet of forested, scrub-shrub and wet meadow freshwater wetlands, permanently convert 18,098 square feet of forested wetlands to scrub-shrub and wet meadow wetlands, and cross three streams. A Permit-by-Rule Notification also will be submitted to cross an additional five streams in compliance with Chapter 305 standards. The results of environmental field surveys conducted on the site have been used to influence and inform the design of the Project to avoid and minimize impacts to wetlands and natural resources. The Project design and construction plan also minimizes potential impacts to rare, threatened, or endangered plants or animals, as they occur sparsely within the site.

The proposed Project can be seen on a set of drawings, the first of which is titled "Project Area Map," prepared by Engineering & Management Services and dated May 25, 2021 (see Attachment 5 Civil Engineering Plan Set and Attachment 6 Proposed Aquatic Resource Impacts).

#### B. Proposed Project Impacts to Wetlands and Watercourses

Wetlands and watercourses were delineated in accordance with the United States Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual (USACE 1987²), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement Version 2 (USACE 2012³) (Regional Supplement); and in accordance with criteria in the NRPA Chapter 310, Wetlands and Waterbodies Protection Rules. Wetlands of Special Significance, regulated under the NRPA 38 M.R.S. §§ 480-D, were evaluated in accordance with the criteria described in NRPA, Chapter 310, Section 4(A).

Tetra Tech, Inc. (Tetra Tech) conducted surveys for vernal pools, wetlands, and watercourses within an approximately 1,499-acre area that covered multiple conceptual Project layouts dating back to when a portion of the property was purchased in 2012. The study area has changed slightly over the course of Project planning to

<sup>&</sup>lt;sup>1</sup> MDEP. Natural Resources Protection Act (NRPA). Title 38 M.R.S. §§480-A et seq. 2007.

United States Army Corps of Engineers (USACE). 1987. Environmental Laboratory. United States Army Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87 1, U.S. Army Engineers Waterways Experiment Station, Vicksburg, MS. 100 pp.

<sup>&</sup>lt;sup>3</sup> USACE. 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J.S. Wakeley, R.W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

accommodate a changing Project design, turbine layout and interconnection options. The final Project layout includes an approximately 536-acre Study Area (Study Area) surrounding the proposed Project design as illustrated in Attachment 9 (Site Conditions Report). The Study Area encompasses all areas associated with the proposed development design, including roads, crane paths, turbine pads, O&M buildings and other appurtenant facilities.

Results of the wetland and waterbody delineations are briefly summarized below. Further details of wetland and waterbody resources identified within the Study Area, as well as relevant data forms, are provided in the Natural Resources Survey Report (see Exhibit 9-1 of Attachment 9 Site Conditions Report).

A portion of the Study Area was delineated in the winter 2020/2021 due to the addition of three radar-assisted lighting tower locations to the Project footprint and the relocation of turbines 6 through 8. The Project design includes some roadside and transmission clearing impacts and avoids all direct impacts within wetlands delineated during the winter. All portions of the Study Area delineated during the winter require field verification during the appropriate growing season, and these field efforts are currently in progress. A Natural Resources Report Addendum will be submitted to supplement the permitting record once all the follow-on field surveys and associated reporting are completed.

The Study Area is located within the Kennebec River Watershed. Chase Stream flows southeast out of the southern end of Chase Pond in the northern limit of the Study Area and flanks the west side of the Study Area. Bassett Brook, a watercourse with a smaller contributing watershed, flows out of a large wetland complex that occurs just north of the proposed turbine array area and bisects the Study Area flowing south and eventually into Chase Stream, just upstream of its intersection with Austin Stream. Austin Stream is located to the east and south of the Study Area and flows generally west, until it's confluence with the Kennebec River, in Bingham, Maine. Aquatic natural resources observed within the Study Area generally contribute to these three streams. North American beaver (*Castor canadensis*) activity is common in the Project area, and several wetlands and watercourses were observed to be affected by impoundments.

Many of the natural resources observed within the Study Area have been affected by disturbances caused by forest management activities and the previous development of the site as a USAF Radar Station. Impacts to natural resources from the more recent forestry practices are observed as tire ruts within wetlands, cleared and regenerating vegetation, as well as compaction and disturbance of topsoil. As is common in many areas throughout Maine, non-wetland areas with shallow water tables that are subject to this level of disturbance, develop hydric conditions over time, and meet the characteristics of regulated wetlands. These naturalized wetlands can be found throughout the Study Area within logging landings and skidder paths. Similar disturbances across the Study Area have developed the conditions required to support vernal pool breeding amphibians.

Areas located within the USAF Radar Station fields are heavily altered. Signs of ditching and soil disturbance are evident throughout the Study Area. Stunted vegetation indicates these soils are heavily compacted. A grounding grid installed within these fields can be observed in the form of metal mesh wires that are occasionally exposed throughout the Study Area. All the resources identified within these fields have been subject to past disturbance.

The existing network of roads represent another human-caused disturbance that disrupt the natural flow of water within and between wetlands and watercourses in the Study Area. Water passes through culverts and flows within ditches created by road construction and maintenance. Due to these past disturbances, there are ditches within the Study Area that convey water but are not subject to regulation as a wetland or watercourse.

Tetra Tech worked with the Applicant's engineer to modify the Project design based on the results of natural resource surveys, to avoid and minimize wetland impacts to the extent practicable. This process is described in more detail below in Attachment 2 Alternatives Analysis. Some Project impacts to wetlands and streams are unavoidable. Proposed wetland impacts include 72,081 square feet of permanent alteration to accommodate the construction of the Project access roads, turbine pads, 34.5 kV overhead collector line, and substation; 6,497 square feet of roadside

clearing to accommodate the temporary installation of construction best management practices (BMPs), and 18,098 square feet of conversion of palustrine forested wetland to palustrine emergent/palustrine scrub-shrub wetland associated with the construction of the 50-foot-wide, 2,265-foot-long 34.5 kV overhead collector line adjacent to Stream Road and the reuse of the existing 40-foot-wide, 2,370-foot-long 12.7 kV overhead distribution line between Stream Road and the O&M building. In addition, temporary construction mats will be used in 21,591 square feet of wetlands to gain construction access to the point of interconnection with the CMP Section 222 transmission line. All proposed wetland impacts are illustrated in Attachment 6 Proposed Aquatic Resource Impacts and summarized in Table 1-1. Construction clearing limits have been minimized to the maximum extent practicable, and all disturbed areas associated with BMP installation will be returned to natural grade and vegetative cover upon completion of construction. USACE paired plot forms (Exhibit 1-1) and a photographic log (see Attachment 4 Site Photographs) of all aquatic resources that are proposed to be impacted by the Project also are provided.

#### C. Streams

A total of eight streams are proposed to be impacted by the Project (Table 1-2). Five of the streams, S24EI, S26EI, S28EI, S51EI and S52EI, will require new culverts that are less than 75 feet in length. These culverts will meet the requirements to be permitted through a NRPA, Chapter 305 Permit by Rule Notification Form, which is being submitted concurrently with this application. Three streams, S21EI, S32EI, and S53EI, will have culverts that exceed 75 feet in length, and are included in this NRPA Individual Permit Application, along with the wetland impacts described above. All new or replacement crossings will follow Maine's Stream Smart Guidelines<sup>4</sup> and will be constructed to be 1.2 times bank full width. As further described below in Section E Wildlife and Significant Wildlife Habitat, the crossing of Bassett Brook (stream S51EI) and the unnamed tributary to Bassett Brook (stream S52EI) will

<sup>&</sup>lt;sup>4</sup> State of Maine Aquatic Resources Management Strategy Forum. Stream Smart Road Crossing Pocket Guide. Available online at: <a href="https://www.maine.gov/mdot/publications/docs/brochures/pocket\_guide\_stream\_smart\_web.pdf">https://www.maine.gov/mdot/publications/docs/brochures/pocket\_guide\_stream\_smart\_web.pdf</a>. Accessed February 2021.

Table 1-1 Summary of Wetland Impacts.

Wetland ID	Temporary Construction Clearing (square feet)	Overhead Transmission Line Clearing (square feet)	Permanent Construction Fill (square feet)	Temporary Construction Mats (square feet)	woss	Cowardian Classification <sup>1, 2</sup>	Principal Functions & Values	Previously Impacted	Impact Description
W12EI	118	0	0	0	No	PFO	Wildlife habitat	Yes	Construction best management practices (BMP) clearing
W17DS	498	0	13,279	0	Yes	PFO	Sediment / shoreline stabilization, wildlife habitat	Yes	Fill associated with construction of the access road and turbine pad, construction BMP clearing
W18EI	0	0	30	0	No	PFO	Sediment / shoreline stabilization	Yes	Fill associated with access road upgrades for proposed crane path
W30EI	2,790	0	20,057	0	No	PEM	Wildlife habitat	Yes	Fill associated with access road construction, construction BMP clearing
W35EI	0	0	1,556	0	No	PEM	Wildlife habitat	No	Fill associated with access road construction
W37EI	0	0	3,042	0	No	PFO	Wildlife habitat	No	Fill associated with construction of turbine pad
W38EI	0	0	1,692	0	No	PFO	Wildlife habitat	No	Fill associated with construction of turbine pad
W43EI	0	0	271	0	Yes	PFO	Wildlife habitat	No	Fill associated with access road construction
W47EI	55	0	7,656	0	No	PEM	Wildlife habitat	Yes	Fill associated with construction of the access road and turbine pad, construction BMP clearing
W48EI	294	0	16	0	Yes	PFO	Sediment / shoreline stabilization, wildlife habitat	No	Fill associated with access road construction, construction BMP clearing, construction BMP clearing
W51EI	0	0	1,652	0	No	PEM	Wildlife habitat, sediment / toxicant retention	Yes	Fill associated with access road upgrades and construction

Wetland ID	Temporary Construction Clearing (square feet)	Overhead Transmission Line Clearing (square feet)	Permanent Construction Fill (square feet)	Temporary Construction Mats (square feet)	woss	Cowardian Classification <sup>1, 2</sup>	Principal Functions & Values	Previously Impacted	Impact Description
W52EI	22	0	0	0	No	PFO	Wildlife habitat, sediment / toxicant retention	Yes	Construction BMP clearing
W61EI	0	0	7	0	No	PEM	Sediment / toxicant retention	Yes	Fill associated with access road upgrades
W63EI	0	0	0	0	No	PEM	Sediment / toxicant retention	Yes	Fill associated with access road upgrades
W67EI	57	0	11	0	No	PEM	Sediment / shoreline stabilization, wildlife habitat	Yes	Fill associated with access road upgrades, construction BMP clearing
W68EI	0	4,088	0	0	Yes	PEM	Sediment / shoreline stabilization, wildlife habitat	Yes	Clearing for overhead transmission line
W71EI	0	6,654	0	0	No	PEM	Sediment / shoreline stabilization, wildlife habitat	Yes	Clearing for overhead transmission line
W81EI	1,700	0	12,947	0	No	PFO	Wildlife habitat	Yes	Fill associated with access road construction, construction BMP clearing
W92EI	0	0	66	0	No	PFO	Wildlife habitat	Yes	Fill associated with construction of turbine pad
W98EI	220	0	6,788	0	No	PEM	Wildlife habitat	Yes	Fill associated with construction of turbine pad, construction BMP clearing
W99EI	0	0	3,000	0	No	PEM	Sediment / toxicant retention	Yes	Fill associated with construction of substation

Wetland ID	Temporary Construction Clearing (square feet)	Overhead Transmission Line Clearing (square feet)	Permanent Construction Fill (square feet)	Temporary Construction Mats (square feet)	woss	Cowardian Classification <sup>1, 2</sup>	Principal Functions & Values	Previously Impacted	Impact Description
W123NJ	55	0	7	0	No	PEM	Wildlife habitat, sediment / toxicant retention	Yes	Fill and clearing associated with construction of turbine pad, construction BMP clearing
W126EI	0	7,356	0	0	No	PSS	TBD	Yes	Clearing for overhead transmission line
WET-68- 02	688	0	5	21,591	No	PSS	NECEC Wetland	Yes	Temporary construction mats, utility poles
Total Wetland Impact (square feet)	6,497	18,098	72,081	21,591			118	8,268	

WOSS – wetlands of special significance

<sup>1 -</sup> PFO = palustrine forested; PEM = palustrine emergent; and PSS = palustrine scrub-shrub.

<sup>2 –</sup> Cowardin, L.M., V. Carter, F.C. Golet, and E.T. Roe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. December 1979. 142 pp. Available online at: <a href="https://www.fws.gov/wetlands/Documents/Classification-of-Wetlands-and-Deepwater-Habitats-of-the-United-States.pdf">https://www.fws.gov/wetlands/Documents/Classification-of-Wetlands-and-Deepwater-Habitats-of-the-United-States.pdf</a>. Accessed February 2021.

Table 1-2 Stream Impacts.

Watercourse ID	Flow Regime	Existing Culvert Distance (feet)	Proposed Culvert Type <sup>1</sup>	Proposed Culvert Length (feet)	Grading Impact (feet)	Clearing Impact (feet)	Permit by Rule
S21EI	Ephemeral	0	1.2 bank width HDPE culvert	80	95.84	5.65	No
S24EI	Intermittent	22	1.2 bank width HDPE culvert	70	65.23	0.36	Yes
S26EI	Intermittent	43	1.2 bank width HDPE culvert	72	42.27	0.30	Yes
S28EI	Ephemeral	0	1.2 bank width HDPE culvert	70	73.67	0.00	Yes
S32EI	Intermittent	0	1.2 bank width HDPE culvert	110	130.64	0.00	No
S51EI	Perennial	31	1.2 bank width concrete box culvert	70	76.63	0.00	Yes
S52EI	Intermittent	23	1.2 bank width concrete box culvert	65	52.41	0.00	Yes
S53EI	Intermittent	76	1.2 bank width HDPE culvert	80	1.38	37.13	No

<sup>1 –</sup> HDPE = high-density polyethylene

be replaced with an open bottom box culvert to improve the crossing for northern spring salamander (*Gyrinophilus* porphyriticus).

The proposed access road and utility corridor for the ADLS contains 13 existing stream crossings. Construction along this route will require that the utility line be buried in the existing road. Impacts at each of the 13 stream crossings will be either avoided altogether by directionally drilling the utility line under the existing crossing, or if necessary, one or more of the existing crossings may be replaced in-kind in accordance with NRPA, Title 38 M.R.S. § 480-Q. If a culvert replacement is necessary, the new crossing will follow Stream Smart Guidelines and be 1.2 times bank full width.

#### D. Vernal Pools and Potential Vernal Pools

Vernal pool surveys were completed by Tetra Tech biologists in April and May 2020 in accordance with the criteria outlined in the Maine Association of Wetland Scientists Vernal Pool Technical Committee, Vernal Pool Survey Protocol.<sup>5</sup> Potential vernal pools (PVPs) also were identified during the winter delineation completed in December 2020 and January 2021. Additional vernal pool surveys were conducted in 2021 to verify PVPs that were identified outside the amphibian breeding season, and a determination of dry out periods for vernal pools is scheduled for July 2021.

There are eight vernal pools or PVPs identified within the Study Area. The majority of the vernal pools identified within the Study Area are non-natural vernal pools. These vernal pools are generally created by tire ruts and roadside ditches that cause water impoundments and provide conditions conducive to spring amphibian breeding activities. One of the vernal pools is characterized as a significant vernal pool (SVP) (vernal pool VP19CP). This vernal pool is naturally occurring and meets the egg mass count criteria to be considered significant under MDEP NRPA Chapter 335, Significant Wildlife Habitat Rules. Vernal pool VP19CP is located north of turbine 14 (Attachment 6, Sheet 1 of 13) and all Project development has been sited to avoid any impacts to the pool's critical terrestrial habitat as defined in Significant Wildlife Habitat Rules. Further details of the vernal pool resources identified within the Study Area, as well as relevant data forms for the Project, are provided in Attachment 9 Site Conditions Report.

#### E. Wildlife and Significant Wildlife Habitat

As part of Project planning and informal consultation with the United States Fish and Wildlife Service (USFWS) Maine Field Office, and recommendations from the Maine Department of Inland Fisheries and Wildlife (MDIFW), a suite of natural resource assessments and field surveys were performed in the Study Area in accordance with the approved Wildlife Study Plan (Exhibit 1-2). Some field surveys pre-date the final study plan approved by the agencies; however, all efforts conformed to the MDIFW Maine Wind Power Pre-construction Recommendations and Turbine Curtailment Recommendations to Avoid/Minimize Bat Mortality (Maine Wind Power Guidance). Results of the wildlife field studies are briefly summarized below. Further details regarding wildlife studies conducted for the Project are provided in the Comprehensive Wildlife Report (see Exhibit 9-2 of Attachment 9 Site Conditions Report). Wildlife field studies were performed for eagle and great blue heron (Ardea herodias) nests, golden eagle (Aquila chrysaetos) migration, eagle use, raptor migration, breeding birds, upland sandpiper (Bartramia longicauda), northern longeared bat (Myotis septentrionalis), bat winter hibernacula, Roaring Brook mayfly (Epeorus frisoni), northern bog lemming (Synaptomys borealis), northern spring salamander, and Canada lynx (Lynx canadensis). Eagle nest, eagle

<sup>&</sup>lt;sup>5</sup> Maine Association of Wetland Scientists. 2014. Vernal Pool Survey Protocol. Maine Association of Wetland Scientists Vernal Pool Technical Committee. April 2014. 84 pp. Available online at: <a href="http://mainewetlands.org/s/Complete-MAWS-2014-VP-Survey-Protocol-v3-05142014-6zs7.pdf">http://mainewetlands.org/s/Complete-MAWS-2014-VP-Survey-Protocol-v3-05142014-6zs7.pdf</a>. Accessed February 2014.

<sup>&</sup>lt;sup>6</sup> MDEP. 2016. Chapter 335: Significant Wildlife Habitat. Rule Chapters for the Department of Environmental Protection, 06-096. Available at <a href="https://www.maine.gov/sos/cec/rules/06/096/096c335.doc">https://www.maine.gov/sos/cec/rules/06/096/096c335.doc</a>. Accessed March 2021.

MDIFW. 2018. Maine Department of Inland Fisheries and Wildlife. Maine Wind Power Preconstruction Recommendations and Turbine Curtailment Recommendation to Avoid/Minimize Bat Mortality. Updated March 5, 2018.

use, northern long-eared bat, and Canada lynx surveys were completed in coordination with USFWS. All other wildlife surveys were coordinated with MDIFW.

#### Birds

The eagle and great blue heron nest survey was performed via helicopter on May 20, 2020. No eagle or great blue heron nests were observed within a 4-mile radius of the Project area boundaries, and no eagles or great blue herons were observed flying or perched during the survey. The closest documented bald eagle (*Haliaeetus leucocephalus*) nest is located along the Kennebec River approximately 5.4 miles west of the Project. A golden eagle survey, performed in conjunction with eagle use and raptor migration surveys, was conducted twice a week following a protocol prescribed by MDIFW from February 15–June 15, 2020 to capture spring movements; and from August 1–December 15, 2020 to capture fall movements. One golden eagle was observed in the Study Area on April 7, 2020. The eagle use survey commenced on January 23, 2020 and a total of 15 bald eagles were observed. Based on guidance from USFWS, eagle use surveys will continue throughout 2021, with one survey completed per month to assess risk of the Project to eagles. Ten additional raptor species were observed during the eagle and raptor surveys.

Breeding bird surveys, performed in May and June of 2020, did not detect any State- or Federally-listed species. However, 11 State Species of Special Concern and 23 Species of Greatest Conservation Need were documented. Despite past records for the Project site, no upland sandpiper were observed, and it is likely that the available habitat is not suitable for the species. While no great blue heron were observed during the nest survey period, one was observed incidentally on September 3, 2020 during a separate upland sandpiper survey. The Project is unlikely to impact golden eagle, bald eagle, or great blue heron due to low passage rates observed during focused surveys and the absence of nests within a 4-mile radius of the Project. No other State- or Federally-listed bird species were detected.

#### Bats

A summer bat acoustic survey was coordinated with the USFWS Maine Field Office and conducted in July 2020 in accordance with USFWS' 2020 Range-wide Indiana Bat Summer Survey Guidelines for Indiana Bat and Northern Longeared Bat.8 Northern long-eared bat was not detected, but the presence of five other bat species was confirmed, including big brown bat (Eptesicus fuscus), eastern red bat (Lasiurus borealis), hoary bat (Lasiurus cinereus), silverhaired bat (Lasionycteris noctivagans), and little brown bat (Myotis lucifugus). Little brown bat is a State-listed endangered species and big brown bat, eastern red bat, hoary bat, and silver-haired bat are considered State Species of Special Concern. Although little brown bat was confirmed, calls from this species composed only 1 percent of total bat activity. Furthermore, 85 of the 99 confirmed little brown bat calls (86%) were recorded in areas that have been removed from the Project area. Based on recommendations from MDIFW, a bat winter habitat analysis was performed via desktop review, drone reconnaissance, and field verification; however, no suitable habitat for overwintering bats was identified. There are no documented bat hibernacula or maternity roost trees within the Project area or within 3 miles of the Project, and tree clearing will occur in the winter to the maximum extent practicable; thus, potential impacts to northern long-eared bat and other tree-roosting bat species will be avoided.

MDIFW recommends curtailment as a protective measure for bats. This recommendation is documented in the Maine Wind Power Guidance (MDIFW 2018), MDIFW's resource survey recommendations for the Project, and MDIFW's written review and comments on other wind development projects in Maine. In addition, MDIFW provided examples of curtailment regimens from other recent projects during the December 10, 2019 agency consultation meeting. As discussed above, no known or potential hibernacula or roost trees have been documented in the Project area or within 3 miles, and the Project is not located within Maine's coastal plain. Migration patterns of bats through the Project area are unknown, however, and MDIFW has expressed concerns about the height of the turbines

<sup>&</sup>lt;sup>8</sup> USFWS. 2020. Range-wide Indiana Bat Summer Survey Guidelines. March 2020. 65 pp. Available online at: <a href="https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html">https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html</a>.

proposed for the Project at a site that also is located in an artificially elevated area. Thus, to support regional bat conservation, the Applicant proposes that turbines operate only at cut-in wind speeds exceeding 6.0 meters per second each night (from at least half an hour before sunset to at least half an hour after sunrise) from April 15–September 30. Turbines will be feathered during curtailment and allowed to turn at no more than one revolution per minute to minimize risks to bats. The Applicant does not believe an increased curtailment wind speed for July 16–September 15 is warranted. This curtailment regimen can be revisited with MDEP as research becomes available related to other weather variables that affect bat activity (e.g., absolute humidity, precipitation, cloud cover) and the efficacy of other conservation measures (e.g., ultrasonic acoustic bat deterrents) on State bat populations.

Formal post-construction fatality monitoring for bats or birds is not proposed. However, Project staff will record all discovered mortalities of bats and birds in an annual log. If possible, carcasses (especially bats) will be collected, stored in plastic bags, and frozen with labels noting the date, time, and nearest turbine number to which it was found. The Applicant will apply to MDIFW for the appropriate permits for the salvage and temporary possession of such specimens. Any bat carcasses or any incident where more than 10 bird carcasses are found during any inspection will be reported to MDIFW and MDEP within 24 hours.

### Roaring Brook Mayfly, Northern Bog Lemming, and Northern Spring Salamander

Roaring Brook mayfly and northern bog lemming surveys were conducted in September 2020 but neither species was found in the Study Area. Northern spring salamander surveys were conducted in July 2020 and the species was confirmed as present in Bassett Brook. A tributary to Bassett Brook, located approximately 383 feet northeast of the main stem, was dry in July and could not be searched, but northern spring salamander is assumed to be present. The existing crossing structure at the main stem is an undersized and slightly crushed culvert with a perched outlet, which will be replaced with an open bottom box culvert that will be a minimum of 1.2 times bank full width of the stream channel. The tributary is crossed with two undersized corrugated pipe culverts, one of which has a partially obstructed inlet. The tributary crossing also will be replaced with an open bottom box culvert that will be a minimum of 1.2 times bank full width of the stream channel. The appropriately sized, open bottom box culverts will maintain natural substrates within the crossing, restore stream function, and enhance habitat for northern spring salamander and other aquatic organisms. A minimum amount of clearing will be required to replace the crossing structures and widen the existing road. To the extent practicable, 250-foot riparian management zones will be maintained on both sides of the stream at both crossings, with particular care given to limiting in-stream disturbance and maintaining canopy closure. If construction workspaces are required, they will be located outside of the buffer zones. Current, published BMPs for stream crossings will be followed to prevent erosion, sedimentation, alteration of stream flow, or other impacts to stream habitat.<sup>9</sup>

#### Canada Lynx

A camera trap and tracking survey conducted from January 10, 2020 to October 8, 2020 confirmed the presence of Canada lynx, a Federally threatened species, within the Project area. Habitat loss or fragmentation are the two primary concerns regarding impacts on Canada lynx, which may be influenced by Project design and construction. Habitat loss related to Project development will likely be marginal in the context of the broader landscape and is driven by regional forest management practices and resulting patterns of softwood regeneration. It is likely that as long as habitats adjacent to turbines and access roads continue to support high densities of snowshoe hare (*Lepus americanus*), the main prey species for Canada lynx, this species will continue to utilize these areas. Canada lynx survey results have been submitted to the USFWS Maine Field Office.

<sup>&</sup>lt;sup>9</sup> Maine Forest Service and Maine Department of Agriculture, Conservation & Forestry, "Best Management Practices for Forestry: Protecting Maine's Water Quality - Third Edition". 2017. Forest Service Documents. 53. Available online at: <a href="https://digitalmaine.com/for\_docs/53">https://digitalmaine.com/for\_docs/53</a>. Accessed February 2021.

### Significant Wildlife Habitat

Figure 1-1 depicts mapped significant wildlife habitat (SWH) in the vicinity of the Project area. SWH areas include deer wintering areas, SVPs, inland waterfowl and wading bird habitat (IWWH), and Atlantic salmon (Salmo salar) habitat. The Project area does not intersect with any mapped SWH areas, but one moderate value IWWH is located approximately 200 feet east of the proposed access road for one of the potential ADLS radar tower sites(ADLS-2A). Another moderate value IWWH is located approximately 0.6 mile east of the same proposed radar tower (ADLS-2A) and 0.6 mile west of the proposed turbine pad for turbine 14. Moderate value IWWH meets the SWH definition and are regulated. The closest mapped deer wintering areas are located approximately 2.7 miles to the north and south of the Project area, and the closest SVP (other than vernal pool VP19CP identified near turbine 14 as described above) is located 1.7 miles south of the Project area, along the CMP transmission corridor. The Project is not expected to negatively impact any SWH areas.

#### F. Fisheries

The Project area is not located within designated Critical Habitat for the Federally endangered Atlantic salmon, Gulf of Maine Distinct Population Segment. The Penobscot Basin Salmon Habitat Recovery Unit is located approximately 6.2 miles west of the Project area (Figure 1-1). <sup>10</sup> No additional agency consultation for Atlantic salmon is expected to be required. Aquatic surveys were not performed since there were no sensitive aquatic resources documented within or near the Project area, and there are no proposed activities that would directly impact rivers, streams, or brooks. The Project will adhere to MDIFW's guidance and maintain a 100-foot vegetated buffer from the upland edges of all streams and contiguous wetlands.

### **Figures**

• Figure 1-1 Mapped Significant Wildlife Habitat

#### **Exhibits**

- Exhibit 1-1 USACE Paired Plot Forms
- Exhibit 1-2 Wildlife Study Plan

<sup>&</sup>lt;sup>10</sup> National Oceanic and Atmospheric Administration. 2020. Atlantic Salmon Critical Habitat – Gulf of Maine DPS. NOAA Fisheries Available online at: <a href="https://www.fisheries.noaa.gov/resource/map/atlantic-salmon-critical-habitat-gulf-maine-dps">https://www.fisheries.noaa.gov/resource/map/atlantic-salmon-critical-habitat-gulf-maine-dps</a>.

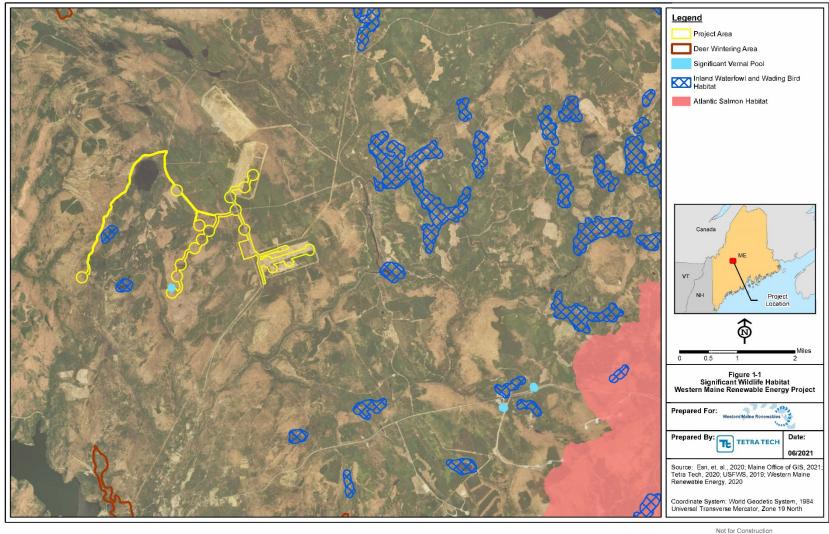
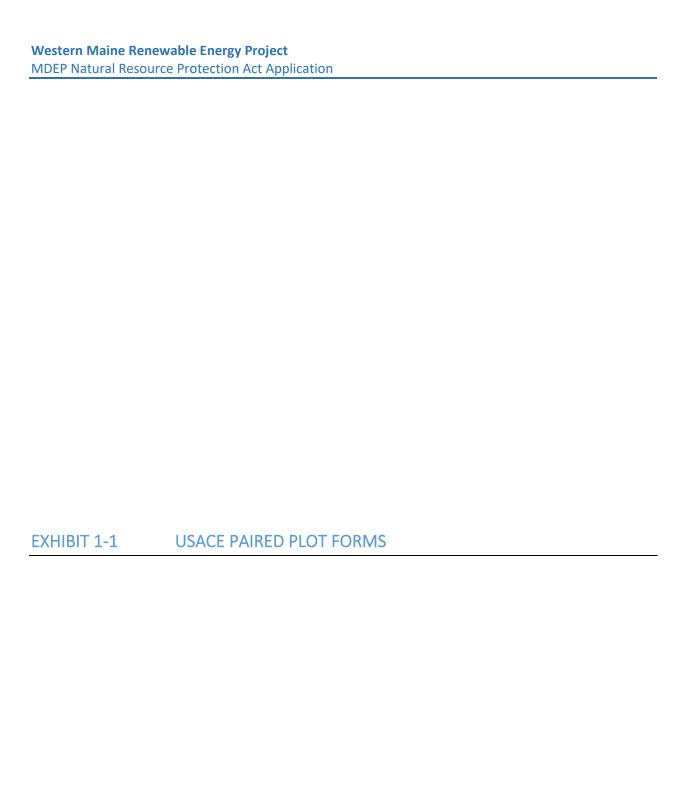


Figure 1-1 **Mapped Significant Wildlife Habitat.** 

MDEP Natural Resource Protection Act Application	
	This page intentionally left blank.

**Western Maine Renewable Energy Project** 





Are Vegetation	Western Mai  Emmy Irvin  Telos-Chesu  Terrace See topo map  drologic cond  □ , Soil □ , □ , Soil □ ,	ditions on the site typor or Hydrology □ signor or Hydrology □ nat	15 percent s 45.153047 bical for thin	lopes Loc L s time of sturbed	?	NW Linear -69.8561 no, explain i	n remarks) Are normal circumsta	Datum: □ Yes □		Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W12EI Upland  □ Yes ☑ No
Wetland Hydro	_			□ Yes						Within A Wetlan	
Remarks:	Statewide										
		•									
Primary	A1 - Surface A2 - High Wa A3 - Saturation B1 - Water Mater	ater Table on Marks nt Deposits posits at or Crust	gery	are not	B9 - Wate B13 - Aqu B15 - Mar C1 - Hydr C3 - Oxid C4 - Pres	latic Faun I Deposits ogen Sulfi ized Rhizo ence of R ent Iron Re Muck Sur	a de Odor ospheres on Living Roots educed Iron eduction in Tilled Soils face		Secondary:	B6 - Surface Soil B10 - Drainage Pa B16 - Moss Trim I C2 - Dry-Season C8 - Crayfish Burn	atterns Lines Water Table rows sible on Aerial Imagery tressed Plants Position tard aphic Relief
Field Observation Surface Water Water Table Presented	Present? resent?	□ Yes ☑ No □ Yes ☑ No □ Yes ☑ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hy		resent? □	Yes ☑ No
Describe Record	ded Data (str	eam gauge, monitorir	ng well, aeri	al photos	s, previous	inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
Map Unit Name	9:	Telos-Chesuncook ass	ociation, 3 to	15 perce	ent slopes	S	eries Drainage Class:	Somewhat p	oorly draine	ed	
Taxonomy (Sul		Loamy, isotic, frigid					<b>.</b>	<u>'</u>			
		the depth needed to document the ind			cators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C		nins; Location: PL=Po	ore Lining, M=Matrix)	_
Тор	Bottom			Matrix	1 0/		0 1 (11 1 1)	Mottles	T =	I	Texture
Depth	Depth	Horizon	Color (I		%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	12	1	10YR	5/3	100						fine sandy loam
			<del></del>								
					<del></del>						
NRCS Hydric	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I S1 - Sandy N S4 - Sandy R S5 - Sandy R S6 - Stripped	istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Bleyed Matrix Redox	re if indica	tors are	S8 - Poly S9 - Thin	value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	x urface Surface		A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	matic Soils 1 Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat ( urface (LRR K, L, M) lue Below Surface (LRR K, L fanganese Masses nont Floodplain Soil Spodic (MLRA 144A, 1 Parent Material Shallow Dark Surfain in Remarks) ation and wetland hydrology	K, L, R) LRR K, L, R) (LRR K, L) ) 5 (LRR K, L, R)  S (MLRA 149B) 45, 149B)
Restrictive Layer (If Observed)	Type:	Ledge		Depth:	12			Hydric Soil	Present?		Yes ☑ No
Remarks:											

# TETRA TECH

## WETLAND DETERMINATION DATA FORM

**Northeast and Northcentral Region** 

Western Maine Renewable Energy Project Project/Site: Wetland ID: W12EI Sample Point **Upland** Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name Ind.Status % Cover Dominant Thuja occidentalis **FACW** 1. Ν Betula alleghaniensis 5 Ν FAC Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 2. Υ **FACU** 3. Picea rubens 50 4. Betula papyrifera Ν **FACU** Total Number of Dominant Species Across All Strata: 3 (B) 5. Ν **FAC** Acer rubrum Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) 6. --7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: --Multiply by: OBL spp. \_\_\_\_ OBL spp. 0
FACW spp. 1 x 1 = 10. Total Cover = 62 x 2 =x 3 =FAC spp. FACU spp. 117 Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =468 FACU Picea rubens 15 UPL spp. 0 x = 5 =1. 2. 5 FAC Betula alleghaniensis Ν 3. **FACU** Betula papyrifera Ν Total 133 (A) 515 4. 5. Prevalence Index = B/A = 3.872 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. ☐ Yes □ No Rapid Test for Hydrophytic Vegetation 10. Yes Dominance Test is > 50% □ No Total Cover = 21 Yes □ No Prevalence Index is ≤ 3.0 \* Yes □ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) \* Yes □ No 50 Medeola virginiana **FACU** 1. \* Indicators of hydric soil and wetland hydrology must be 2. -----present, unless disturbed or problematic. 3. **Definitions of Vegetation Strata:** 4. 5. 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. ′\_\_ 7. 0 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. -----tall. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 50 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** □ Yes ☑ No 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:** 



	Western Mai Emmy Irvin Telos-Ches Terrace See topo map drologic cond	ne Renewable Energy Fine Renewables, LLC suncook association Latitude: ditions on the site typor Hydrology	, 3 to 15 pe 45.153047 pical for thi	ercent sle Loc L s time of	cal Relief: ongitude: f year? (If	NW Linear -69.8561		Datum: □ Yes □	: NAD 83 No t?	Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W12EI Wetland
Are Vegetation	□ , Soil □ ,	or Hydrology □ nat	urally probl	ematic?			□ Yes	☑ No			
SUMMARY OF											
Hydrophytic Ve	•							Hydric Soils			☑ Yes □ No
Wetland Hydro					□ No			Is This Sam	pling Point '	<u> Within A Wetlan</u>	d? ☑ Yes □ No
Remarks:	Statewide of	drought									
HYDROLOGY											
	<u>:</u> A1 - Surface		indicators	are not	B9 - Wate				Secondary:	B6 - Surface Soil	
		on Marks nt Deposits posits at or Crust			C4 - Pres	I Deposits ogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Sur	de Odor ospheres on Living Roots educed Iron eduction in Tilled Soils face			B10 - Drainage Pa B16 - Moss Trim C2 - Dry-Season C8 - Crayfish Burn C9 - Saturation Vi D1 - Stunted or So D2 - Geomorphic D3 - Shallow Aqui D4 - Microtopogra D5 - FAC-Neutral	Lines Water Table Tows sible on Aerial Imagery tressed Plants Position tard aphic Relief
Field Observation Surface Water Water Table President Saturation	Present? esent?	□ Yes ☑ No □ Yes ☑ No ☑ Yes □ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hy		resent? ☑	Yes □ No
	•	eam gauge, monitorir	ng well, aeri	al photos	s, previous	inspection	ons), if available:		N/A		
Remarks:	Statewide of	drout									
SOILS											
Map Unit Name	٥.	Telos-Chesuncook ass	ociation 3 to	15 perce	ent slones	S	eries Drainage Class:	Somewhat n	oorly draine	2d	
Taxonomy (Sub		Loamy, isotic, frigid					ones Bramage Glass.	. Comownac p	oony arant	<u> </u>	
	<del>-                                    </del>						D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix				Mottles		_	Texture
Depth	Depth	Horizon	Color (I	Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
0	12	1	10YR	4/1	85	10YR	3/2	10	D	M	sandy loam
						10YR	5/8	5	С	PL	sandy loam
										<u></u>	
NRCS Hydric	Soil Field Ir	ndicators (check he	re if indica	tors are	not prese	<u>ent</u> ⊐):		Indicato	rs for Proble	matic Soils <sup>1</sup>	<u> </u>
	A12 - Thick I S1 - Sandy I S4 - Sandy I S5 - Sandy I S6 - Stripped	istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Bleyed Matrix Redox			S9 - Thin	Dark Surfany Mucky I Day Gleyed Dated Matria Dark Sueted Dark	x ırface Surface	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Muck (LRR K, L, MLRA 1 t Prairie Redox (LRR ucky Peat of Peat ( urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, L Manganese Masses nont Floodplain Soil Spodic (MLRA 144A, 1 Parent Material Shallow Dark Surfain in Remarks)	K, L, R) LRR K, L, R) (LRR K, L) ) 5 (LRR K, L, R)  S (MLRA 149B) 45, 149B)
Restrictive Layer (If Observed)	Type:	Ledge		Depth:	12			Hydric Soil	Present?	V	Yes □ No
Remarks:											

Sample Point Wetland

# TETRA TECH

Western Maine Renewable Energy Project

Project/Site:

## WETLAND DETERMINATION DATA FORM

Wetland ID:

W12EI

**Northeast and Northcentral Region** 

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) Species Name % Cover Dominant Ind.Status **Dominance Test Worksheet** Thuja occidentalis 25 Υ **FACW** 1. Betula alleghaniensis Ν 5 FAC 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) Υ 3. 25 **FACW** Picea mariana 4. Total Number of Dominant Species Across All Strata: 5 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B) 6. 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: --Multiply by: --OBL spp. x 1 = 10. FACW spp. \_\_\_\_ Total Cover = 55 x 2 =FAC spp. \_\_\_\_ x 3 =FACU spp. 11 Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =44 **FACW** Alnus incana 35 UPL spp. 0 1. x = 52. 5 FAC Betula alleghaniensis Ν 3. **FACU** Betula papyrifera Ν Total 133 298 4. 5. Prevalence Index = B/A = 2.241 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. Yes Dominance Test is > 50% □ No Total Cover = 41 Yes □ No Prevalence Index is ≤ 3.0 \* Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) \* Yes ✓ No Ν FAC Osmunda claytoniana 5 1. \* Indicators of hydric soil and wetland hydrology must be 2. Onoclea sensibilis 5 Ν **FACW** present, unless disturbed or problematic. 3. 2 Ν **FACW** Symphyotrichum novae-angliae Osmunda spectabilis 5 Ν **Definitions of Vegetation Strata:** 4. OBL Υ Rubus hispidoides **FACW** 5. 10 Υ 6 **FACU** Gaultheria procumbens 10 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. **'**\_\_ 7. 0 ----8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. -----tall. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 37 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** ✓ Yes □ No 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:** 



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	,				,			County:	Somerset
Investigator #1:	-			Invest	igator #2:					State:	ME
Soil Unit:	Monarda T	elos Complex 0-8 %	slopes				/I/WWI Classification:	: Upland		Wetland ID:	W19DS
Landform:	Terrace				cal Relief:					Sample Point:	Upland
Slope (%):	See topo map		45.158284		ongitude:				NAD 83	-	
		ditions on the site ty	•			no, explain			No t2	-	
•		or Hydrology ☐ sig	-				Are normal circumst ☐ Yes	.ances presen ☑No	l?		
SUMMARY OF		or Hydrology □ nat	lurally prob	iemalic?			□ 163	M NO			
Hydrophytic Ve		sent?		☐ Yes	s ☑ No			Hydric Soils	Drecent?		□ Yes ☑ No
Wetland Hydro	•			☐ Yes						Within A Wetlar	
Remarks:	Statewide o			100	<u> </u>			13 THIS CATTLE	omig i omic	vviumi / vveudi	103 - 100
		3									
<b>HYDROLOGY</b>											
Wetland Hydr	ology Indica	ators (Check here i	f indicators	are not	present	Ì					
Primary		atoro (orroan nara i	· ····································		p. 555t	حر			Secondary:		
	A1 - Surface			_	B9 - Wate					B6 - Surface Soil	
	A2 - High Wa A3 - Saturation				B13 - Aqı B15 - Ma					B10 - Drainage P B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	•			_	C2 - Dry-Season	
	B2 - Sedimer	•			C3 - Oxid	lized Rhizo	spheres on Living Roots			C8 - Crayfish Bur	rows
	B3 - Drift Dep						educed Iron				isible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep			_	Co - Reco		eduction in Tilled Soils			D1 - Stunted or S D2 - Geomorphic	
		on Visible on Aerial Ima	agery		Other (Ex					D3 - Shallow Aqu	
	B8 - Sparsely	y Vegetated Concave S	Surface							D4 - Microtopogra	•
							ı			D5 - FAC-Neutra	I rest
Field Observat		<b>-</b>			<i>(</i> : \						
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	l Yes ☑ No
Water Table Pr Saturation Pres		□ Yes   ☑ No □ Yes   ☑ No	Depth:		(in.)						
			Depth:		(in.)						
	•	eam gauge, monitori	ng well, aer	ial photos	s, previous	s inspecti	ons), if available:		N/A		
Domorke	Statewide										
Remarks:	Otatewide (	drought									
	Otatewide	arougnt									
SOILS			ov 0.8 % slov	nes		S	eries Drainage Class	· Somewhat n	oorly draine	ad	
SOILS Map Unit Name	e:	Monarda Telos Compl			nds	S	eries Drainage Class:	: Somewhat p	oorly draine	ed	
SOILS  Map Unit Name Taxonomy (Sub	e: ogroup):	Monarda Telos Comple Loamy, isotic, frigid, sh	nallow Aquic	Haplortho			•	·	•		
SOILS  Map Unit Name Taxonomy (Sub	e: ogroup):	Monarda Telos Comple Loamy, isotic, frigid, sh	nallow Aquic	Haplortho			eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0	·	•		Texture
SOILS  Map Unit Name Taxonomy (Sub	e: ogroup): otion (Describe to	Monarda Telos Comple Loamy, isotic, frigid, sh	nallow Aquic	Haplortho absence of indi			•	Covered/Coated Sand Gra	•		<del>-</del>
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip	e: ogroup): otion (Describe to Bottom	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind	nallow Aquic	Haplortho absence of indi	icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	<del>-</del>
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): otion (Describe to Bottom Depth	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind Horizon	nallow Aquic dicator or confirm the Color (I	Haplortho absence of indi Matrix Moist)	icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra  Mottles  %	ins; Location: PL=Po	ore Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: ogroup): otion (Describe to Bottom Depth 12	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind Horizon	Color (I	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: Digroup): Display to the control of the control	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind Horizon	Color (I	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: Digroup): Difion (Describe to Depth 12	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind Horizon	Color (I	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	Bottom Depth 12	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	Depth 12	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: Digroup): Difion (Describe to Bottom Depth 12	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Degroup): Depth Depth 12 Soil Field In	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the ind  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3      tors are	% 100 not prese	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3      tors are	% 100 not prese		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Degroup): Depth Depth 12 Soil Field In	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the incention to the depth needed to document the incention the depth needed to document the depth needed to the depth needed t	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3      tors are	% 100 not prese S8 - Poly S9 - Thin		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the ince  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	      value Belo Dark Surf my Mucky my Gleyed	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the ince  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the ince  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the incention to the inc	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy M S4 - Sandy R	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12	Monarda Telos Comple Loamy, isotic, frigid, sh the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the ince  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy M S4 - Sandy M S5 - Sandy R S6 - Stripped S7 - Dark Su	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	Bottom Depth 12	Monarda Telos Comple Loamy, isotic, frigid, she the depth needed to document the inc  Horizon	Color (I 10YR	Haplortho  absence of indi  Matrix  Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) sandy loam

# TETRA TECH

# WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W19DS Sample Point **Upland** 

Tree Stratum (Pl	(Species identified in all upperca					
TIEE Stratum (FI	ot size: 10 meter radius)					
	<u>Species Name</u>			<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum		15	Y	FAC	
2.	Betula alleghaniensis		25	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.	Picea rubens		15	Υ	FACU	T ( ) )   ( D )   ( D )   A === All Ot==t== 0
4.						Total Number of Dominant Species Across All Strata:8(B)
5.						D
6.	<b></b>					Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)
7.	<b></b>					Dravalance Index Moukobast
8.	<b></b>					Prevalence Index Worksheet  Total % Cover of:  Multiply by 6
9.						Total % Cover of:  Multiply by:
10.	<b></b>	T-t-L Cover =				OBL spp. $0   x   1 = 0$
		Total Cover =	55			FACW spp. 4
O	· ··· (Di-t-i E motor radius)					FAC spp. $59$ $\times 3 = 177$
Sapling/Shrub Su 4	ratum (Plot size: 5 meter radius)		5	Y	- FACIL	FACU spp. 45
2.	Picea rubens		2		FACU FAC	UPL spp 10 x 5 = 50
3.	Acer rubrum Viburnum acerifolium		10	N Y	UPL	T-t-U 449 (A) 445 (B)
				<u> </u>		Total 118 (A) 415 (B)
4. 5.	<del></del>					Drayolongo Indox = D/A = 2.547
5. 6.	<b></b>			<b></b>		Prevalence Index = B/A = 3.517
7.	<b></b>			<b></b>		
	<b></b>					Undrankutia Vagatatian Indiaatara
8.	<b></b>					Hydrophytic Vegetation Indicators:
9.	<b></b>					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.	<b></b>	Total Cayor =	17			☐ Yes ☐ No Dominance Test is > 50%
		Total Cover =	17			Yes ☑ No Prevalence Index is ≤ 3.0 * No ☑
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Pic	ot size: 2 meter radius)		15	Y	FACU	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
2.	Dryopteris marginalis Cornus canadensis		15	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.			10	Y	FACU	present, unless disturbed or problematic.
	Medeola virginiana		2	N	FACU	Definitions of Vocatation Strate:
4. 5.	Coptis trifolia Acer rubrum		2	N N	FACVV	Definitions of Vegetation Strata:
5. 6	Rubus hispidus		2	N N	FACW	Tree - w
7.	•					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	<del></del>					
9.				<b></b>		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
9. 10.	<del></del>			<b></b>		tall.
11.	 					
11.				<b></b>		<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.					<b></b>	woody plants less than 3.28 ft. tall.
13. 14.			<b></b>	<b></b>		
	<b></b>					Woody Vines - All woody vines greater than 3.28 ft. in height.
15.		T-t-l Cayor =	46			vvoody villes = / iii woody villoo groute. than oleo it iii no.g
		Total Cover =	46			
	(2) (2) (2) (3)					
Woody Vine Strat	tum (Plot size: 10 meter radius)					
2.	_ <del></del>		<b></b>		<b></b>	
3.			<b></b>	<b></b>	<b></b>	Hydrophytic Vocatation Present  Ves  Vo
	<b></b>					<b>Hydrophytic Vegetation Present</b> □ Yes ☑ No
<u>4.</u>	<b></b>					
5.	<b></b>	Total Cover =	0			
Remarks:		Total Cover –				
Remains.						
Additional Re	marks:					



Draigat/Sita:											
Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
		•		Invocti	igotor #2:	Emmy	nvin			State:	
Investigator #				IIIvesti	igator #2:						ME
Soil Unit:	Monarda T	elos Complex 0-8 %	slopes			NW	/I/WWI Classification:	: PFO		Wetland ID:	W19DS
Landform:	Terrace			Loc	al Relief:	Linear				Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.158284		ongitude:		53	Datum	: NAD 83	'	
<del> </del>										-	
Are climatic/ny	yarologic cond	ditions on the site ty	pical for thi	is time o	r year? (If	no, explain i	n remarks)	□ Yes □	No		
Are Vegetation	n □, Soil □,	or Hydrology □ sig	nificantly di	isturbed'	?		Are normal circumst	tances presen	ıt?		
•		or Hydrology □ nat	-				□ Yes	☑ No			
•		or riyarology in had	arany prob	iomatio.							
SUMMARY O	F FINDINGS										
Hydrophytic V	egetation Pre	sent?		Yes	i □ No			Hydric Soils	Present?		
Wetland Hydr					. □ No					Within A Wetla	nd? ☑ Yes □ No
•				_ 100				is This Carri	pinig i onic	vitiliii / v otiai	
Remarks:	Statewide of	arougnt									
HYDROLOGY	,										
IIIDKOLOGI											
Wetland Hyd	Irology Indic	ators (Check here i	f indicators	are not	present						
Primar	• • •	•			•	<b>–</b>			Secondary:		
		Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	l Cracks
	A1 - Garlace  A2 - High Wa			_							
	_				B13 - Aqu					B10 - Drainage F	
					B15 - Mai	•			_	B16 - Moss Trim	
<u> </u>	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
	B2 - Sedime	nt Deposits					spheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift De	posits			C4 - Pres	sence of R	educed Iron			C9 - Saturation V	/isible on Aerial Imagery
	∃ B4 - Algal Ma	at or Crust			C6 - Rece	ent Iron Re	eduction in Tilled Soils			D1 - Stunted or S	Stressed Plants
	B5 - Iron Dep	oosits			C7 - Thin	Muck Sur	face			D2 - Geomorphic	Position
	B7 - Inundati	on Visible on Aerial Ima	igery		Other (Ex	oplain in Re	emarks)			D3 - Shallow Aqu	
Г		y Vegetated Concave S			`	•	,			D4 - Microtopogr	
		, 3								D5 - FAC-Neutra	
							1				
Field Observa	ations:										
Surface Wate	r Present?	☐ Yes ☑ No	Depth:		(in.)						
Water Table F		<del></del>	-		1 1			Wetland Hy	drology Pr	resent?	] Yes □ No
		☐ Yes ☑ No	Depth:	_	(in.)						
Saturation Pre	esent?	☑ Yes 🔲 No	Depth:	0	(in.)						
Describe Descri	rdad Data (atr	som gouge monitori	ag well oor	ial phatac	n provious	o inonocti	one) if eveilable:		N/A		
Describe Neco	•	eam gauge, monitorii	ig well, aell	iai priotos	s, previous	s irispecti	oris), ii avallable.		11/7		
Remarks:	Statewide of	drought									
i torriarito.	Clatewide (	aroagric									
rtomanto.	Clatewide (	arougin									
	Clatewide	ar o a grit									
SOILS	Otatewide	aroagm									
SOILS			mplex 0-8 %	% slopes		S	eries Drainage Class	: poorly draine	ed		
SOILS Map Unit Nam	ne:	Monarda Telos Cor	-				eries Drainage Class	: poorly draine	ed		
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Monarda Telos Cor Loamy, mixed, activ	/e, acid, fri	gid, shal	low Aeric	Endoaq	uepts				
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Monarda Telos Cor Loamy, mixed, activ	/e, acid, fri	gid, shal	low Aeric	Endoaq				ore Lining, M=Matrix)	
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Monarda Telos Cor Loamy, mixed, activ	/e, acid, fri	gid, shal	low Aeric	Endoaq	uepts			ore Lining, M=Matrix)	Texture
SOILS  Map Unit Nam Taxonomy (Su  Profile Description	ne: ubgroup): <b>iption</b> (Describe to Bottom	Monarda Telos Cor Loamy, mixed, activ	/e, acid, fri	gid, shal absence of indi Matrix	low Aeric icators.) (Type: C	Endoaq	uepts D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	•	
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth	Monarda Telos Cor Loamy, mixed, activ	/e, acid, fri	gid, shal absence of indi Matrix Moist)	low Aeric	Endoaq	uepts	Covered/Coated Sand Gra		ore Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su  Profile Description	ne: ubgroup): <b>iption</b> (Describe to Bottom	Monarda Telos Cor Loamy, mixed, activ	/e, acid, fri	gid, shal absence of indi Matrix	low Aeric icators.) (Type: C	Endoaq	uepts D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	•	
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 4	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the ind	Color (I	gid, shal absence of indi Matrix Moist) 2/1	low Aeric (Type: C	Endoaq E=Concentration,	uepts  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location 	(e.g. clay, sand, loam) muck
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR	gid, shal absence of indi Matrix Moist) 2/1 5/1	low Aeric icators.) (Type: C	Endoaq E=Concentration,	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  %  20	Type C	Location  M	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 4	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the ind Horizon	Color (I	gid, shal absence of indi Matrix Moist) 2/1	low Aeric (Type: C	Endoaq E=Concentration,	uepts  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location 	(e.g. clay, sand, loam) muck
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR	gid, shal absence of indi Matrix Moist) 2/1 5/1	low Aeric icators.) (Type: C	Endoaq E=Concentration,	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  %  20	Type C	Location  M	(e.g. clay, sand, loam) muck
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR 10YR	gid, shal habsence of individuals Matrix Moist) 2/1 5/1	% 100 80	Endoaq E=Concentration,  10YR 	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  %   20	Type C	Location M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR 10YR	gid, shal absence of indi Matrix Moist) 2/1 5/1	No   No   No   No   No   No   No   No	Endoaq E=Concentration,  10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  % 20	Type  C	Location M	(e.g. clay, sand, loam)  muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR 10YR	gid, shal habsence of individuals Matrix Moist) 2/1 5/1	% 100 80	Endoaq E=Concentration,  10YR 	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  %   20	Type C	Location M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR 10YR	gid, shal absence of indi Matrix Moist) 2/1 5/1	No   No   No   No   No   No   No   No	Endoaq EConcentration,   10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  %   20	Type  C	Location M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist) 2/1 5/1	% 100 80	Endoaq E=Concentration,   10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  % 20	Type   C	Location M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shal absence of indi Matrix Moist) 2/1 5/1	Water   Colored   Colore	Endoaq EConcentration,   10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  % 20	Type   C	Location M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, activ the depth needed to document the inc  Horizon	Color (I 10YR 10YR	gid, shal absence of indi Matrix Moist) 2/1 5/1	Water   Colored   Colore	Endoaq EConcentration,   10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  % 20	Type  C	Location M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist) 2/1 5/1 tors are	% 100 80 not prese	Endoaq C=Concentration,  10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type C	Location   M	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 4 12 Soil Field In	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist) 2/1 5/1 tors are	% 100 80 not prese	Endoaq C=Concentration,  10YR ent	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type C sfor Proble	Location   M       matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam)  muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incent of the depth needed to document the dept	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist) 2/1 5/1 tors are	% 100 80 not presesse S8 - Polyty S9 - Thin	Endoaq E=Concentration,  10YR ent	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type C sfor Proble A10 - 2 cm A16 - Coast	Location   M       matic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not presessed S8 - Polyting S9 - Thin F1 - Loan	Endoaq C=Concentration, The second of the se	uepts  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M	Location   M        matic Soils <sup>1</sup> Muck (LRR K, L, MLRA the Prairie Redox (LR uncky Peat of Peat	(e.g. clay, sand, loam) muck fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 4 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 4 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist)  2/1  5/1     tors are	% 100 80 not presesses Polyment P1 - Loan F2 - Loan	Endoaq  10YR value Belo Dark Surf ny Mucky	uepts  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S	Location   M      matic Soils <sup>1</sup> Muck (LRR K, L, MLRA the Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam)  muck  fine sandy loam       149B) R K, L, R) (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 4 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth  4 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifiee	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	Endoaq =Concentration,  10YR ent	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval	Location   M         matic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface	(e.g. clay, sand, loam)  muck fine sandy loam  (149B) R K, L, R) (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 4 NRCS Hydric	ne:  ubgroup):  iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention  Horizon	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist)  2/1  5/1     tors are	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	Endoaq  E-Concentration,   10YR       value Belo Dark Surf ny Mucky Iny Gleyed eted Matri ox Dark Sur	uepts  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da	Location   M      matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, K)	(e.g. clay, sand, loam)  muck  fine sandy loam       149B) R K, L, R) (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth  4 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention to the incention to document the incention to document the incention the in	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist)  2/1  5/1     tors are	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C	Location   M       matic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse	(e.g. clay, sand, loam) muck fine sandy loam 149B) R K, L, R) (LRR K, L, R) c (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne:  ubgroup):  iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention to the incention to document the incention to document the incention the in	Color (I 10YR 10YR	gid, shale absence of individual Matrix Moist)  2/1  5/1     tors are	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C	Location   M      matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, K)	(e.g. clay, sand, loam) muck fine sandy loam 149B) R K, L, R) (LRR K, L, R) c (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth  4 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention  Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location   M       matic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse	(e.g. clay, sand, loam)  muck  fine sandy loam      149B) R K, L, R) (LRR K, L, R)  (LRR K, L, R) ES (LRR K, L, R) DIS (MLRA 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: libgroup): liption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention  Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type C	Location   M        matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So	(e.g. clay, sand, loam)  muck  fine sandy loam      149B) R K, L, R) (LRR K, L, R)  (LRR K, L, R) ES (LRR K, L, R) DIS (MLRA 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth  4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C	Location   M	(e.g. clay, sand, loam)  muck  fine sandy loam      149B)  R K, L, R)  (LRR K, L, R)  (LRR K, L, R)  S (LRR K, L, R)  Dils (MLRA 149B)  145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention  Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicato	Type  C	Location   M       matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So c Spodic (MLRA 144A, Parent Material y Shallow Dark Sur	(e.g. clay, sand, loam)  muck  fine sandy loam      149B)  R K, L, R)  (LRR K, L, R)  (LRR K, L, R)  S (LRR K, L, R)  Dils (MLRA 149B)  145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicato	Type  C	Location   M       matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So c Spodic (MLRA 144A, Parent Material y Shallow Dark Suriain in Remarks)	(e.g. clay, sand, loam)  muck  fine sandy loam      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)  S (LRR K, L, R)  S (LRR K, L)  L) S (LRR K, L, R)  oils (MLRA 149B)  145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the incention  Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator   Indicators	Type  C	Location   M       matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So c Spodic (MLRA 144A, Parent Material y Shallow Dark Sur	(e.g. clay, sand, loam)  muck  fine sandy loam      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)  S (LRR K, L, R)  S (LRR K, L)  L) S (LRR K, L, R)  oils (MLRA 149B)  145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 4 NRCS Hydric	iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of indice to the property of the property o	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl F8 - Red F8 - Red	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C	Location   M	(e.g. clay, sand, loam)  muck  fine sandy loam     149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) bils (MLRA 149B) 145, 149B)  rface y must be present, unless
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 4	Bottom Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of individuals absence of individual absence of i	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator   Indicators	Type  C	Location   M       matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So c Spodic (MLRA 144A, Parent Material y Shallow Dark Suriain in Remarks)	(e.g. clay, sand, loam)  muck  fine sandy loam      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) Dils (MLRA 149B) 145, 149B)  rface
SOILS  Map Unit Nam Taxonomy (St  Profile Descr  Top Depth  0 4 NRCS Hydric  Restrictive Layer (If Observed)	iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of indice to the property of the property o	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl F8 - Red F8 - Red	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C	Location   M	(e.g. clay, sand, loam)  muck  fine sandy loam     149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) bils (MLRA 149B) 145, 149B)  rface y must be present, unless
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 4 NRCS Hydric	iption (Describe to Depth 4 12	Monarda Telos Cor Loamy, mixed, active the depth needed to document the ince Horizon	Color (I 10YR 10YR	gid, shale absence of indice to the property of the property o	% 100 80 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl F8 - Red F8 - Red	endoaq c=Concentration, 10YR	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  4/4  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 20 Indicator	Type  C	Location   M	(e.g. clay, sand, loam)  muck  fine sandy loam     149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) bils (MLRA 149B) 145, 149B)  rface y must be present, unless

# TETRA TECH

# 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	e species	5.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	Species Name	% Cover		Ind.Status	Dominance Test Worksheet
1.	Thuja occidentalis	20	У	FACW	
2.	Acer rubrum	15	У	FAC	Number of Dominant Species that are OBL, FACW, or FAC:6(A)
3.	Abies balsamea	15	У	FAC	
4.					Total Number of Dominant Species Across All Strata:6(B)
5.					
6.	<u></u>				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cover =	50			FACW spp. 70 x 2 = 140
					FAC spp. $35$ $x 3 = 105$
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)	40		E A O\A/	FACU spp. 0 x 4 = 0
1.	Spiraea alba	10	У	FACW	UPL spp. $10$ $x 5 = 50$
2.	<del></del>				
3.	<del></del>				Total(A)(B)
4.	<b></b>				
5.	<del></del>				Prevalence Index = B/A = 2.565
6.	<del></del>				
7.	<del></del>				Hardanaha Ca MaradaCa a La Pardana
8.	<del></del>				Hydrophytic Vegetation Indicators:
9.	<del></del>				✓ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.					✓ Yes ☐ No Dominance Test is > 50%
	Total Cover =	10			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
,	t size: 2 meter radius)	- 20		E A C\A/	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Onoclea sensibilis	20	У	FACW	* Indicators of hydric soil and wetland hydrology must be
2.	Coptis trifolia	5	n	FACW	present, unless disturbed or problematic.
3.	Osmundastrum cinnamomeum	15	у	FACW	Definitions of Vegetation Strate.
4.	Fragaria vesca	10	n	UPL	Definitions of Vegetation Strata:
5.	Clintonia borealis	5	n	FAC	Troo
6 7.	<del></del>				<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	_ <del></del>				g (= = /, g =
9.	_ <del></del>				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.	_ <del></del>				tall.
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.		<del></del>			
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
10.	Total Cover =	 55			vvoody vinics
	Total Cover –	55			
Woody Vine Strati	um (Plot size: 10 meter radius)				
1					
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					, a. ep, a. e e e e e e e e e e e e e e e e e e
5.					
<u> </u>	Total Cover =	0			
Remarks:	. 5.551 55751				
Additional Rer	marks:				



Are Vegetation Are Vegetation Hydrophytic Ve	Western Mai Emmy Irvin Telos-Chesu Terrace See topo map drologic cond , Soil , , Soil ,	ditions on the site typor Hydrology □ signor Hydrology □ natesent?	15 % slopes 45.150130° bical for this	Loc L s time of sturbed' ematic?	? S ☑ No	NW Linear -69.8565 no, explain i	n remarks) Are normal circumsta	Datum: □ Yes □ ances presen □ No Hydric Soils	Present?	Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W18EI Upland  □ Yes ☑ No
Wetland Hydro				□ Yes	s ☑ No			Is This Sam	pling Point \	Within A Wetlan	d? □ Yes ☑ No
Remarks:	Statewide of	arougnt									
Primary	A1 - Surface A2 - High Wa A3 - Saturation B1 - Water Mater	ater Table on Marks nt Deposits posits at or Crust	gery	are not	B9 - Wate B13 - Aqu B15 - Mar C1 - Hydr C3 - Oxidi C4 - Pres	latic Faun I Deposits ogen Sulfi ized Rhizo ence of R ent Iron Re Muck Sur	a de Odor ospheres on Living Roots educed Iron eduction in Tilled Soils face		Secondary:	B6 - Surface Soil B10 - Drainage Pa B16 - Moss Trim C2 - Dry-Season C8 - Crayfish Bur	atterns Lines Water Table rows sible on Aerial Imagery tressed Plants Position tard aphic Relief
Field Observation Surface Water Water Table Presented	Present? resent? sent?	□ Yes ☑ No □ Yes ☑ No □ Yes ☑ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hy		resent? □	Yes ☑ No
	· · · · · · · · · · · · · · · · · · ·	eam gauge, monitorir	ng well, aeri	al photos	s, previous	inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
Map Unit Name		Telos-Chesuncook ass			•		eries Drainage Class:	Somewhat p	oorly draine	ed	
Taxonomy (Sul	<del>U 1</del> /	Loamy, isotic, frigid	-				D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	nins: Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix				Mottles	,		Texture
Depth	Depth	Horizon	Color (N	Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
0	17		10YR	4/2	100						sandy loam
			<u></u>								
	A1- Histosol A2 - Histic E <sub> </sub> A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped S7 - Dark Su	istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox I Matrix Irface (LRR R, MLRA 149B)	re if indica		S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	x urface Surface	I Indicators disturbed of	A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	matic Soils 1 Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat ( urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, L danganese Masses nont Floodplain Soi s Spodic (MLRA 144A, 1 Parent Material Shallow Dark Surfain in Remarks) ation and wetland hydrology	K, L, R) LRR K, L, R) (LRR K, L) ) 5 (LRR K, L, R)  S (MLRA 149B) 45, 149B)
Restrictive Layer	<u></u>										
(If Observed)	Type:	None		Depth:	N/A			Hydric Soil	Present?		Yes ☑ No

# TETRA TECH

# WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

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

Tree Stratum (Plo	ot size: 10 meter radius)					
,	<u>Species Name</u>		% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Betula papyrifera	-	5	N	FACU	
2.	Betula alleghaniensis		20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.	Picea rubens		10	Υ	FACU	
4.						Total Number of Dominant Species Across All Strata: 6 (B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						
		Total Cover =	35			FACW spp. 2 x 2 = 4
						OBL spp. 0 $x 1 = 0$ FACW spp. 2 $x 2 = 4$ FAC spp. 49 $x 3 = 147$
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp. 40
1.	Picea rubens		10	Υ	FACU	UPL spp. $10$ $x 5 = 50$
2.	Acer rubrum		2	N	FAC	
3.	Viburnum acerifolium		10	Υ	UPL	Total 101 (A) 361 (B)
4.						
5.						Prevalence Index = $B/A =$ 3.574
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.						☐ Yes ☑ No Dominance Test is > 50%
		Total Cover =	22			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
						☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Dryopteris marginalis		5	N	FACU	
2.	Cornus canadensis		20	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Medeola virginiana		10	Υ	FACU	present, unless disturbed or problematic.
4.	Coptis trifolia		2	N	FACW	Definitions of Vegetation Strata:
5.	Clintonia borealis		2	N	FAC	
6	Osmunda claytoniana		5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
11.						
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
		Total Cover =	44			
Woody Vine Strati	um (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present □ Yes ☑ No
4.						
5.						
		Total Cover =	0			
Remarks:						
Additional Rer	marks:					



D : (/O:											
Project/Site:	Western Mai	ne Renewable Energy	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		ncook association, 3 to	15 % slopes				/I/WWI Classification:	: PFO		Wetland ID:	W18EI
Landform:	Terrace	,	·		cal Relief:	Linear				Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.150087°		ongitude:		604°	Datum:	: NAD 83		
. ,		ditions on the site ty						□ Yes ☑	No	1	
	_	or Hydrology □ sig	•		-		Are normal circumst				
•		, ,,	•					⊠ No	и:		
Ţ.		or Hydrology □ nat	lurally probl	iemanc?			res	□ NO			
SUMMARY OF		10		\ /	N.I.				D 10		_ \/
Hydrophytic Ve	•			☑ Yes				Hydric Soils		A ( )	☑ Yes □ No
Wetland Hydro		i?		✓ Yes	s □ No			Is This Sam	pling Point \	Within A Wetlan	nd? ☑ Yes □ No
Remarks:	Drought										
<b>HYDROLOGY</b>											
	مادها بسماده	otono (Chook bono i	if in all a atomo			7-					
	•	ators (Check here i	it indicators	are not	present	Þ			0		
Primary		Motor		_	DO Wete	or Ctainad	Laguag		Secondary:	DC Curfoss Cail	Cracks
	A1 - Surface			☑ □	B9 - Wate					B6 - Surface Soil	
	A2 - High Wa A3 - Saturati				B13 - Aqเ B15 - Mai				☑	B10 - Drainage Pa B16 - Moss Trim	
	B1 - Water N				C1 - Hydr	•				C2 - Dry-Season	
	B2 - Sedime						spheres on Living Roots			C8 - Crayfish Buri	
	B3 - Drift De			Ä			educed Iron			-	isible on Aerial Imagery
	B4 - Algal Ma						eduction in Tilled Soils			D1 - Stunted or S	0 ,
	B5 - Iron Dep				C7 - Thin					D2 - Geomorphic	Position
	B7 - Inundati	on Visible on Aerial Ima	agery		Other (Ex	plain in Re	emarks)			D3 - Shallow Aqui	itard
	B8 - Sparsel	y Vegetated Concave S	Surface	_						D4 - Microtopogra	•
										D5 - FAC-Neutral	Test
Field Observa	tions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)						.,
Water Table Pr		□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pres		☑ Yes □ No	Depth:		(in.)						
Saturation Fies	5 <del>6</del> 111:	□ 163 □ 1 <b>1</b> 0	Бериі.		(111.)						
Describe Record	ded Data (str	eam gauge, monitori	ng well, aeri	al photos	s, previous	s inspecti	ons), if available:		N/A		
Domorko	0 1 -	1									
Remarks:	Seep wetla	ınd									
Remarks:	Seep wetta	ind									
	Seep wetta	ınd									
SOILS	·		association	n 3 to 1	5 % slone	. S	eries Drainage Class	· Somewhat n	oorly draine	2d	
SOILS Map Unit Name	e:	Telos-Chesuncook		-			eries Drainage Class:	: Somewhat p	poorly draine	ed	
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup):	Telos-Chesuncook Loamy, isotic, frigic	d, shallow A	quic Ha	plorthods		•	•	·		
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): ption (Describe to	Telos-Chesuncook Loamy, isotic, frigic	d, shallow A	absence of ind	plorthods		eries Drainage Class.  D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	·		Toyture
SOILS Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): ption (Describe to Bottom	Telos-Chesuncook Loamy, isotic, frigio	d, shallow A	aduic Ha absence of ind Matrix	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	re Lining, M=Matrix)	Texture
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): ption (Describe to	Telos-Chesuncook Loamy, isotic, frigic	d, shallow A	absence of ind Matrix Moist)	plorthods icators.) (Type: C		•	Covered/Coated Sand Gra	·		Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): ption (Describe to Bottom	Telos-Chesuncook Loamy, isotic, frigio	d, shallow A	aduic Ha absence of ind Matrix	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	re Lining, M=Matrix)	_
SOILS Map Unit Name Taxonomy (Sui Profile Descrip Top Depth	e: bgroup): <b>ption</b> (Describe to Bottom Depth	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the inc	d, shallow A	absence of ind Matrix Moist)	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	bgroup):  ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	cl, shallow A dicator or confirm the Color (I 10YR	absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigic the depth needed to document the inc  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the inc  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	bgroup):  ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	Color (I	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the inc  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	bgroup):  ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	Color (I	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Matrix Moist)  2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	Plorthods   Cators.   (Type: Cators.   (Type: Cators.   Type: Cators.   Ca	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the inc  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %        Indicator	Type	Location	(e.g. clay, sand, loam) mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 10 Soil Field In A1- Histosol	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,  ent □: value Belo	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %        Indicator	Type	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam)  mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 10 Soil Field In	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location Matic Soils 1 Muck (LRR K, L, MLRA 1	(e.g. clay, sand, loam)  mucky loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup):  ption (Describe to Depth 10 Soil Field II A1- Histosol A2 - Histic E	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	cl, shallow A dicator or confirm the Color (I 10YR	Aquic Ha absence of ind Matrix Moist) 2/1 tors are	plorthods icators.) (Type: C	=Concentration, ent □: value Belo Dark Surf	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Mottles %	Type	Location  Location        Muck (LRR K, L, MLRA 1 Prairie Redox (LRR	(e.g. clay, sand, loam)  mucky loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist) 2/1 tors are	plorthods icators.) (Type: C  % 100 not prese S8 - Polyo S9 - Thin F1 - Loan	=Concentration,  ent □: value Belo Dark Surf ny Mucky	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles %	Type	Location  Location         Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat (	(e.g. clay, sand, loam)  mucky loam          (k. k., k., R)  (k. k., k., R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Depth 10 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplet	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist) 2/1 tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	ent D: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix curface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam         (LRR K, L, R)  (LRR K, L)  -)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth  0 NRCS Hydric	bgroup): ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist) 2/1 tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Covered/Coated Sand Gra  Mottles %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist) 2/1 tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 10 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifiee A11 - Deplet A12 - Thick II S1 - Sandy II S4 - Sandy II S5 - Sandy II S5 - Sandy II	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (S (LRR K, L, R)  (S (LRR K, L, R)  (S (MLRA 149B)  145, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth  0 NRCS Hydric	bgroup): ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (S (LRR K, L, R)  (S (LRR K, L, R)  (S (MLRA 149B)  145, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the ind Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (S (MLRA 149B)  (145, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth  0 NRCS Hydric	bgroup): ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (S (MLRA 149B)  (145, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	bgroup):  ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  % 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple F8 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam)  mucky loam       149B)  R K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (S (LRR K, L, R)  Ils (MLRA 149B)  145, 149B)  face  must be present, unless
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth  0 NRCS Hydric	bgroup):  ption (Describe to Depth 10	Telos-Chesuncook Loamy, isotic, frigio the depth needed to document the interpretation  Horizon	Color (I 10YR ere if indica	Aquic Ha absence of ind Matrix Moist)  2/1     tors are	plorthods icators.) (Type: C  %  100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Kurface Surface Surface	Mottles %	Type	Location	(e.g. clay, sand, loam)  mucky loam          (LRR K, L, R)  (S (MLRA 149B)  (145, 149B)

Sample Point Wetland

# TETRA TECH

Western Maine Renewable Energy Project

Project/Site:

## WETLAND DETERMINATION DATA FORM

Wetland ID:

W18EI

**Northeast and Northcentral Region** 

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) Species Name % Cover Dominant Ind.Status **Dominance Test Worksheet** Thuja occidentalis 30 Υ **FACW** 1. Number of Dominant Species that are OBL, FACW, or FAC: 6 (A) Picea mariana 10 Ν **FACW** 2. 3. --4. Total Number of Dominant Species Across All Strata: 6 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: --OBL spp. \_\_\_ x 1 = 10. FACW spp. Total Cover = 40 x 2 =FAC spp. \_\_\_\_ x 3 =FACU spp. Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =20 Thuja occidentalis 10 **FACW** UPL spp. 0 1. x = 52. 3. Total 100 210 4. 5. Prevalence Index = B/A = 2.100 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. Yes Dominance Test is > 50% □ No Total Cover = 10 Yes □ No Prevalence Index is ≤ 3.0 \* Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) \* Yes ✓ No FAC Clintonia borealis 10 1. \* Indicators of hydric soil and wetland hydrology must be 2. Viola cucullata 10 Υ OBL present, unless disturbed or problematic. Rubus hispidus 3. 5 Ν **FACW** Uvularia sessilifolia 5 Ν **FACU Definitions of Vegetation Strata:** 4. Y Geum rivale OBL 5. 10 Υ 6 **FAC** Osmunda claytoniana 10 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. --8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. -----tall. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 50 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. **Hydrophytic Vegetation Present** ☑ Yes □ No 3. 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:** 



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		ncook-Elliottsville associa	tion, 3 to 15%				/I/WWI Classification:	: Upland		Wetland ID:	W30EI
Landform:	Terrace		,	•	cal Relief:			•		Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.147302		ongitude:		59	Datum	: NAD 83		- Parista
		ditions on the site ty						□ Yes ☑	No.		
		or Hydrology □ sig	•				Are normal circumst				
<u> </u>		or Hydrology □ nat	•					.ances presen ☑ No	it:		
•		or Hydrology in that	urally probl	iemalic?				M 140			
SUMMARY OF		10		\ /	N.I.				D 10		_ \/
Hydrophytic Ve	•			□ Yes				Hydric Soils		A/'	□ Yes ☑ No
Wetland Hydro				□ Yes	s ☑ No			Is This Sam	pling Point \	Within A Wetlan	d? □ Yes ☑ No
Remarks:	Statewide of	drought									
<b>HYDROLOGY</b>											
	مال مال معامر	otoro (Chook boro :	f ::= al: = at a # a			λ_					
	•	ators (Check here i	t indicators	are not	present	运			0 1		
Primary		Motor		_	DO Mata	or Ctainad	Laguag		Secondary:	DC Cumfooo Coil	Crooks
	A1 - Surface				B9 - Wate					B6 - Surface Soil	
	A2 - High Wa A3 - Saturati				B13 - Aqu B15 - Mar					B10 - Drainage Pa B16 - Moss Trim I	
	B1 - Water M				C1 - Hydr	•				C2 - Dry-Season	
	B2 - Sedime			ī			spheres on Living Roots			C8 - Crayfish Buri	
	B3 - Drift De						educed Iron			-	sible on Aerial Imagery
	B4 - Algal Ma	•			C6 - Rece	ent Iron Re	eduction in Tilled Soils			D1 - Stunted or St	0 ,
	B5 - Iron Dep	oosits			C7 - Thin	Muck Sur	face			D2 - Geomorphic	Position
		on Visible on Aerial Ima			Other (Ex	plain in Re	emarks)			D3 - Shallow Aqui	
	B8 - Sparsely	y Vegetated Concave S	Surface							D4 - Microtopogra	•
										D5 - FAC-Neutral	Test
Field Observa	tions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			<b>VA7</b> 41 111		-	
Water Table Pi		□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Saturation Pres		□ Yes ☑ No	Depth:		(in.)						
			<u> </u>								
Describe Record	ded Data (str	eam gauge, monitorii	ng well. aeri	al photos	s, previous	: inspectio	ons) if available:		N/A		
		<u> </u>	3 , , , , ,	оп ртто со с	, p	niopooti	one, ii avallabio.		,		
Remarks:	Statewide		<u> </u>	<u> p</u>	, p. 0	люроси	orio), ii availabio.				
Remarks:	Statewide		<u> </u>	э. р. тото	, p	, тороси	one), ii avallable.				
	Statewide of		<u> </u>	<u> </u>	, p	пороси	one), ii avallable.				
SOILS		drought			·	·	·	· Somewhat n		ed	
SOILS Map Unit Name	e:	drought Telos-Chesuncook	-Elliottsville	associa	ation, 3 to	15% sl <b>6</b>	eries Drainage Class:	: Somewhat p		ed	
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup):	drought  Telos-Chesuncook Loamy, isotic, frigid	-Elliottsville I, shallow A	e associa	ation, 3 to	15% sl <b>6</b>	eries Drainage Class:	•	oorly draine		
SOILS  Map Unit Name Taxonomy (Sul  Profile Descri	e: bgroup): <b>ption</b> (Describe to	drought  Telos-Chesuncook Loamy, isotic, frigid	-Elliottsville I, shallow A	e associa quic Ha	ation, 3 to	15% sl <b>6</b>	·	Covered/Coated Sand Gra	oorly draine		Toyturo
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): <b>ption</b> (Describe to Bottom	Telos-Chesuncook Loamy, isotic, frigid	-Elliottsville I, shallow A	e associa quic Ha absence of indi Matrix	ation, 3 to plorthods icators.) (Type: C	15% sl <b>6</b>	eries Drainage Class: D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	poorly draine	re Lining, M=Matrix)	Texture
SOILS  Map Unit Name Taxonomy (Sul  Profile Descri	e: bgroup): <b>ption</b> (Describe to Bottom Depth	drought  Telos-Chesuncook Loamy, isotic, frigid	-Elliottsville I, shallow A	e associa quic Ha absence of indi Matrix	ation, 3 to	15% sl <b>6</b>	eries Drainage Class:	Covered/Coated Sand Gra	oorly draine		(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): <b>ption</b> (Describe to Bottom	Telos-Chesuncook Loamy, isotic, frigid	-Elliottsville I, shallow A	e associa quic Ha absence of indi Matrix	ation, 3 to plorthods icators.) (Type: C	15% sl <b>6</b>	eries Drainage Class: D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	poorly draine	re Lining, M=Matrix)	
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): <b>ption</b> (Describe to Bottom Depth	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc	-Elliottsville I, shallow A dicator or confirm the Color (I	e associa quic Ha absence of indi Matrix Moist)	ation, 3 to plorthods icators.) (Type: C	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	oorly draine  ains; Location: PL=Poi	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 2	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc	-Elliottsville I, shallow A dicator or confirm the Color (I	e associa aquic Ha absence of indi Matrix Moist)	ation, 3 to plorthods icators.) (Type: C	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	oorly draine  ins; Location: PL=Poi  Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2	e: bgroup): ption (Describe to Bottom Depth 2 6	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc	-Elliottsville I, shallow A dicator or confirm the Color (I  10YR	e associa aquic Ha absence of indi Matrix Moist)  3/2	eation, 3 to plorthods icators.) (Type: C	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	oorly draine ains; Location: PL=Poi Type	Location	(e.g. clay, sand, loam) SAPRIC
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	e: bgroup): ption (Describe to Bottom Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I  10YR 10YR	e associal appendix Matrix Moist)  3/2 5/3	oxtion, 3 to plorthods icators.) (Type: C	15% sl6  =Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	bgroup):  ption (Describe to Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I  10YR 10YR 	e associa aduic Ha absence of indi Matrix Moist) 3/2 5/3	ation, 3 to plorthods icators.) (Type: Control  %   100  100	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	e: bgroup): ption (Describe to Bottom Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I  10YR 10YR	e associal appendix Matrix Moist)  3/2 5/3	oxtion, 3 to plorthods icators.) (Type: C	15% sl6  =Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	bgroup):  ption (Describe to Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I  10YR 10YR 	e associa aduic Ha absence of indi Matrix Moist) 3/2 5/3	ation, 3 to plorthods icators.) (Type: Control  %   100  100	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	e: bgroup): ption (Describe to Bottom Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I 10YR 10YR	e associa aduic Ha absence of indi Matrix Moist)  3/2 5/3	etion, 3 to plorthods icators.) (Type: C %  100 100  	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	e: bgroup): ption (Describe to Bottom Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I 10YR 10YR	e associal advice Hall absence of indice Matrix Moist)  3/2 5/3	etion, 3 to plorthods icators.) (Type: C	15% sl6	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6	e: bgroup): ption (Describe to Bottom Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I 10YR 10YR	e associal advice Hall absence of indice Matrix Moist)  3/2 5/3	ation, 3 to plorthods icators.) (Type: C	=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check he	-Elliottsville I, shallow A dicator or confirm the Color (I 10YR 10YR	e associal advice Hall absence of indice Matrix Moist)  3/2 5/3	ation, 3 to plorthods icators.) (Type: Complete	=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsville I, shallow A dicator or confirm the Color (I 10YR 10YR	e associal advice Hall absence of indice Matrix Moist)  3/2 5/3	ation, 3 to plorthods icators.) (Type: C	=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ACCE (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  %  Indicator	Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check he	-Elliottsville I, shallow A dicator or confirm the Color (I 10YR 10YR	associal absence of indice Matrix Moist)  3/2 5/3 tors are	ation, 3 to plorthods icators.) (Type: Complete	=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifie	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check he pipedon istic en Sulfide d Layers	-Elliottsvilled, shallow Addicator or confirm the Color (I 10YR 10YR ere if indica	e associal quic Ha absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control  % 100 100 not presence S8 - Polymon S9 - Thin F1 - Loam F2 - Loam F3 - Deple	15% sl6  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K	Mottles %	Type	Location  Matic Soils <sup>1</sup> Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat ( urface (LRR K, L, M) ue Below Surface (	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplet	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface	-Elliottsvilled, shallow Addicator or confirm the Color (I 10YR 10YR ere if indica	e associal quic Ha absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: C	=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ACC (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface	Covered/Coated Sand Gra  Mottles  %	Type  Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 2 6 14 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplet A12 - Thick I	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface	-Elliottsvilled, shallow Addicator or confirm the Color (I 10YR 10YR ere if indica	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Covered/Coated Sand Gra  Mottles % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I S1 - Sandy N	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (I 10YR 10YR ere if indica	e associal quic Ha absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: C	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type  Type	Location  Locati	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick In S1 - Sandy In S4 - S4	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (I 10YR 10YR ere if indica	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Covered/Coated Sand Gra  Mottles  %  Indicator	Type  Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplet A12 - Thick I S1 - Sandy I S4 - Sandy I S5 - S5	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (I 10YR 10YR ere if indica	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type	Location  Locati	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) 45, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type  Type	Location  Locati	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) 45, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type  Type	Location  Locati	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup): ption (Describe to Depth 2 6 14	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type  Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup):  ption (Describe to Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A12 - Thick I S1 - Sandy N S4 - Sandy N S4 - Sandy N S4 - Sandy N S5 - Sandy N S6 - Stripped S7 - Dark Su	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	associal absence of indice Matrix Moist)  3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: Control % 100 100 not presence S8 - Polyty S9 - Thin F1 - Loam F2 - Loam F3 - Deplete F6 - Redo F7 - Redo	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type  Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 2 6 NRCS Hydric	bgroup):  ption (Describe to Depth 2 6 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A12 - Thick I S1 - Sandy N S4 - Sandy N S4 - Sandy N S4 - Sandy N S5 - Sandy N S6 - Stripped S7 - Dark Su	Telos-Chesuncook Loamy, isotic, frigid the depth needed to document the inc  Horizon	-Elliottsvilled, shallow Addicator or confirm the Color (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	associal Aquic Halabsence of indice Matrix Moist) 3/2 5/3 tors are	nation, 3 to plorthods icators.) (Type: C	=Concentration,  =Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	Mottles %	Type  Type	Location	(e.g. clay, sand, loam) SAPRIC fine sandy loam fine sandy loam 49B) K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) S (MLRA 149B) 45, 149B) Face must be present, unless

Sample Point **Upland** 

# TETRA TECH

Western Maine Renewable Energy Project

Project/Site:

## WETLAND DETERMINATION DATA FORM

Wetland ID:

**W30EI** 

**Northeast and Northcentral Region** 

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) Species Name % Cover Dominant Ind.Status **Dominance Test Worksheet** Acer rubrum 20 Υ FAC 1. Number of Dominant Species that are OBL, FACW, or FAC: \_\_\_\_\_(A) Υ Picea rubens 50 **FACU** 2. Υ FAC 3. Betula alleghaniensis 20 4. Acer pensylvanicum 15 Υ **FACU** Total Number of Dominant Species Across All Strata: 8 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B) 6. --7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: --OBL spp. x 1 = 10. FACW spp. Total Cover = 105 x 2 =FAC spp. \_\_\_\_ x 3 =FACU spp. 120 Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =480 UPL spp. 0 1. x = 5--2. 3. Total 168 622 4. 5. Prevalence Index = B/A = 3.702 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. ☐ Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. Yes Dominance Test is > 50% ✓ No Total Cover = 0 Yes ✓ No Prevalence Index is ≤ 3.0 \* Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) \* Yes ✓ No Ν FAC Osmunda claytoniana 1. \* Indicators of hydric soil and wetland hydrology must be 2. Coptis trifolia 2 Ν **FACW** present, unless disturbed or problematic. 3. 5 Ν FAC Athyrium angustum 15 Υ **FACU Definitions of Vegetation Strata:** 4. Maianthemum canadense Y Medeola virginiana 10 **FACU** 5. Υ FACU 6 15 Viola palmata Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Ν 7. Nabalus albus 5 **FACU** 8. Υ **FACU** Dryopteris campyloptera 10 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. -----tall. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 63 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. **Hydrophytic Vegetation Present** □ Yes ☑ No 3. 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:** 



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC			:					County:	Somerset
Investigator #1: Soil Unit:	•	ook association, 3 to 15 perc	cent slones ver		igator #2:		/I/WWI Classification:	PFM		State: Wetland ID:	ME W30EI
Landform:	Terrace	ook association, o to 10 per	ocht siopes, vei		cal Relief:		vi, vv vvi Gladdindation.			Sample Point:	Wetland
Slope (%):	see topo map	Latitude:	45.147302	L	.ongitude:	-69.8623	594	Datum:	NAD 83	]	
		ditions on the site ty				no, explain i	·	□ Yes ☑	No		
•		or Hydrology □ sig	•				Are normal circumsta	•	it?		
SUMMARY OF		or Hydrology □ nat	urally probl	ematic?			□ Yes □	☑ No			
Hydrophytic Ve		sent?		✓ Yes	s 🗆 No			Hydric Soils	Present?		
Wetland Hydrol	•			☑ Yes						Within A Wetlar	
Remarks:	Statewide of	drought									
HADDOI OCA											
HYDROLOGY Wetland Hydr	ology Indic	ators (Check here i	f indicators	are not	present	<b>}</b>					
Primary:	• •	ators (Check here i	i iliulcators	are not	present	户			Secondary:		
	A1 - Surface				B9 - Wate					B6 - Surface Soil	
	A2 - High Wa A3 - Saturation				B13 - Aqu B15 - Mar				□	B10 - Drainage P B16 - Moss Trim	
	B1 - Water M					ogen Sulfi				C2 - Dry-Season	
	B2 - Sedime	•					ospheres on Living Roots			C8 - Crayfish Bur	
	B3 - Drift De <sub>l</sub> B4 - Algal Ma						educed Iron eduction in Tilled Soils			D1 - Saturation V	isible on Aerial Imagery tressed Plants
	B5 - Iron Dep	oosits			C7 - Thin	Muck Sur	face			D2 - Geomorphic	Position
		on Visible on Aerial Ima y Vegetated Concave S	•		Other (Ex	plain in Re	emarks)			D3 - Shallow Aqu	
	bo - Sparser	y vegetated Concave S	ourrace							D4 - Microtopogra D5 - FAC-Neutral	
Field Observat	tions:										
Surface Water	Present?	□ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	Yes □ No
Water Table Pr		□ Yes ☑ No	Depth:		(in.)			welland ny	drology Fi	esent:	Yes □ No
Saturation Pres	sent?	☑ Yes □ No	Depth:	0	(in.)						
Describe Record	ded Data (str	eam gauge, monitorir	ng well, aeri	al photos	s, previous	inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
COLLC											
SOILS  Map Unit Name	٥٠	Telos-Chesuncook associa	tion 2 to 15 por	cont along	. vorv storv	S	Series Drainage Class:	somewhat n	oorly draine	ad .	
Taxonomy (Sub		Loamy, isotic, frigid					eries Diamage Class.	30mewnat p	oony draine	<del>,</del>	
	<del>U 1</del> /		-				D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix	_			Mottles			Texture
Depth	Depth	Horizon	Color (I		%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	12	1	10YR	2/1	95	5YR	3/3	5	D	M	ERY FINE SANDY LOA
					<del></del>						
						nt d.			for Droble	matic Soils 1	
 NRCS Hydric	 Soil Field In	 ndicators (check he	ere if indica	tors are	•	,					
NRCS Hydric	Soil Field In	ndicators (check he	ere if indica		S8 - Poly	/alue Bélo	w Surface (LRR R, MLRA 149B)		A10 - 2 cm	Muck (LRR K, L, MLRA 1	
 NRCS Hydric	 Soil Field In	ndicators (check he	ere if indica	tors are	S8 - Poly S9 - Thin	/alue Belo Dark Surf	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)		A10 - 2 cm A16 - Coast		k K, L, R)
NRCS Hydric	Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge	ndicators (check he pipedon istic en Sulfide	ere if indica		S8 - Polyo S9 - Thin F1 - Loan F2 - Loan	value Belo Dark Surf ny Mucky l ny Gleyed	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S	Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M)	k K, L, R) (LRR K, L, R)
NRCS Hydric	A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified	ndicators (check he pipedon istic en Sulfide d Layers		_ _ _	S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple	value Belo Dark Surf ny Mucky l ny Gleyed eted Matri	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval	Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface	(LRR K, L, R)
NRCS Hydric	A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface		_ _ _	S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da	Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, L	(LRR K, L, R) (LRR K, L, R)
NRCS Hydric	A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy N	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral			S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M	Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, L Manganese Masses nont Floodplain Soi	(LRR K, L, R) (LRR K, L) (LRR K, L) (LRR K, L) (LRR K, L, R) (LRR K, L, R)
NRCS Hydric	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick Ep S1 - Sandy No	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Bleyed Matrix			S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic	Muck (LRR K, L, MLRA 1) Prairie Redox (LRR UCKY Peat of Peat o	(LRR K, L, R) (LRR K, L) (LRR K, L) (LRR K, L) (LRR K, L, R) (LRR K, L, R)
NRCS Hydric	A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy N	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix			S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F	Muck (LRR K, L, MLRA 1 Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, L Manganese Masses nont Floodplain Soi	(LRR K, L, R) (LRR K, L) (LRR K, L) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B)
NRCS Hydric	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick Ep S1 - Sandy No S4 - Sandy No S5 - Sandy Ro S6 - Stripped	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix			S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface		A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Muck (LRR K, L, MLRA 1) Prairie Redox (LRR UCKY Peat of Peat o	(LRR K, L, R) (LRR K, L) (LRR K, L) (S (LRR K, L, R)  S (MLRA 149B) (145, 149B)
NRCS Hydric	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick Ep S1 - Sandy No S4 - Sandy No S5 - Sandy Ro S6 - Stripped	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Bleyed Matrix Redox d Matrix			S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Muck (LRR K, L, MLRA 1) Prairie Redox (LRR UCKY Peat of Peat o	E K, L, R) (LRR K, L, R) (LRR K, L) -) -S (LRR K, L, R)
NRCS Hydric	Soil Field In A1- Histosol A2 - Histic E  A3 - Black H  A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I S1 - Sandy I S4 - Sandy I S5 - Sandy I S6 - Stripped S7 - Dark Su	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Bleyed Matrix Redox d Matrix			S8 - Polyo S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Explain Of hydrophytic veget or problematic.	Muck (LRR K, L, MLRA 1) Prairie Redox (LRR UCKY Peat of Peat o	E K, L, R) (LRR K, L, R) (LRR K, L) -) -S (LRR K, L, R)

Sample Point Wetland

# TETRA TECH

Western Maine Renewable Energy Project

Project/Site:

## WETLAND DETERMINATION DATA FORM

Wetland ID:

**W30EI** 

**Northeast and Northcentral Region** 

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Picea mariana 5 Υ **FACW** 1. 5 Number of Dominant Species that are OBL, FACW, or FAC: 9 (A) Acer rubrum Υ FAC 2. 5 Υ **FACW** 3. Fraxinus nigra 4. 5 Υ **FACW** Total Number of Dominant Species Across All Strata: 9 (B) Larix laricina 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. --7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: --OBL spp. x 1 = 10. FACW spp. \_\_\_\_ Total Cover = 20 x 2 =FAC spp. \_\_\_ x 3 =10\_\_\_\_ FACU spp. Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =40 **FACW** UPL spp. \_\_\_ 10 1. Alnus incana x = 52. 5 Acer rubrum Ν **FAC** 3. Total 240 400 4. 5. Prevalence Index = B/A = 1.667 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. Yes Dominance Test is > 50% □ No Total Cover = 15 Yes □ No Prevalence Index is ≤ 3.0 \* Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) \* Yes ✓ No 90 OBL Carex stricta 1. \* Indicators of hydric soil and wetland hydrology must be 2. Symphyotrichum novae-angliae 15 Ν **FACW** present, unless disturbed or problematic. 3. 20 **FACW** Onoclea sensibilis 25 Y **FACW Definitions of Vegetation Strata:** 4. Impatiens capensis Ν **FACW** Spiraea alba 15 5. Υ 6 20 OBL Calamagrostis canadensis Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. Osmunda claytoniana Ν 7. 5 FAC Solidago canadensis **FACU** 8. 5 Ν Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. Rubus idaeus 5 Ν **FACU** 9. tall. 5 Ν **OBL** 10. Scirpus cyperinus 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 205 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** ✓ Yes □ No 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:** 



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1					igator #2:					State:	ME
Soil Unit:	Chesuncook-E	Elliottsville-Telos associat	ion, 3 to 15 %				/I/WWI Classification:	: Upland		Wetland ID:	W35EI
Landform:	Terrace				cal Relief:			_		Sample Point:	Upland
Slope (%):	See topo map		45.144677°		ongitude:				NAD 83	4	
		ditions on the site ty				no, explain			No	1	
_		or Hydrology ☐ sig	•				Are normal circumst	•	ť?		
		or Hydrology □ nat	urally prob	iematic?			□ Yes	☑ No			
SUMMARY OF		10			— N			11 1: 0 :1	D 10		
Hydrophytic Ve	_			☐ Yes				Hydric Soils		\\/;thip \\ \\/atlar	☐ Yes ☑ No
Wetland Hydro				□ Yes	s ☑ No	)		is this Samp	pling Point	Within A Wetlar	nd? □ Yes ☑ No
Remarks:	Statewide of	arougni									
HYDROLOGY											
	alamılmılı	otomo (Obook bono i	C : :								
_		<b>ators</b> (Check here i	rindicators	are not	present	Į			Socondon.		
<u>Primary</u> □	<u>:</u> A1 - Surface	Water		П	B9 - Wate	er-Stained	Leaves		<u>Secondary:</u> □	B6 - Surface Soil	Cracks
	A2 - High Wa			_	B13 - Aqu				_	B10 - Drainage P	
_	A3 - Saturation				B15 - Ma	•			_	B16 - Moss Trim	
	B1 - Water M B2 - Sedimer				C1 - Hydr	_	de Odor espheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bur	
	B3 - Drift Dep	•					educed Iron			,	isible on Aerial Imagery
	B4 - Algal Ma	at or Crust					eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron Dep				C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima y Vegetated Concave S			Other (Ex	kplain in Re	emarks)			D3 - Shallow Aqu D4 - Microtopogra	
	Bo - oparacij	y vegetated contaive e	diaco							D5 - FAC-Neutra	
Field Observa	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)					_	
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	l Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
Describe Record	led Data (str	eam gauge, monitorir	· .			e inenacti	one) if available:		N/A		
Remarks:	Statewide of		ig wen, acr	iai priotot	s, proviou	o mopeou			14// (		
		11 ( )1 1( 11 11									
		arougnt									
	o to to made	arougni									
SOILS			sville-Telos	s associa	ation 3 to	15 % s <b>s</b>	reries Drainage Class	· Moderately v	well drained	1	
SOILS Map Unit Name	e:	Chesuncook-Elliotts				15 % s <b>ß</b>	eries Drainage Class:	: Moderately v	well drained	<u> </u>	
SOILS  Map Unit Name Taxonomy (Sul	e: ogroup):	Chesuncook-Elliotts Coarse-loamy, isoti	c, frigid Aq	luic Hapl	lorthods			•			
SOILS  Map Unit Name Taxonomy (Sul	e: ogroup): otion (Describe to	Chesuncook-Elliotts Coarse-loamy, isoti	c, frigid Aq	uic Hapl	lorthods		ceries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra			Texture
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip	e: ogroup): otion (Describe to Bottom	Chesuncook-Elliotts Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of ind Matrix	lorthods		D=Depletion, RM=Reduced Matrix, CS=0	•	nins; Location: PL=Po		<b>-</b>
SOILS  Map Unit Name Taxonomy (Sul	e: ogroup): otion (Describe to	Chesuncook-Elliotts Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of ind Matrix	Iorthods icators.) (Type: C			Covered/Coated Sand Gra		ore Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): otion (Describe to Bottom Depth	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc	c, frigid Aq licator or confirm the Color (I	uic Hapl absence of ind Matrix Moist)	lorthods icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	ore Lining, M=Matrix)  Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2	e: ogroup): otion (Describe to Bottom Depth 6	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR	uic Haple absence of ind Matrix Moist) 3/2	icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	e: Digroup): Discribe to Bottom Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	Matrix Moist) 3/2 5/3	icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	Bottom Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR	Matrix Moist) 3/2 5/3	W	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	Bottom Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR 	muic Haple absence of ind Matrix Moist) 3/2 5/3	% 100 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	e: ogroup): otion (Describe to Bottom Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the	uic Haple absence of ind Matrix Moist) 3/2 5/3	Washington	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	e: Digroup): Difion (Describe to Bottom Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the	muic Haple absence of ind Matrix Moist) 3/2 5/3	Washington	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	e: Digroup): Difion (Describe to Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist) 3/2 5/3	Washington	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	e: Digroup): Difion (Describe to Depth 6 12	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind Matrix Moist) 3/2 5/3 ttors are	which is the second state of the second state	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	e: ogroup): otion (Describe to Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	e: Digroup): Difion (Describe to Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not presessed S8 - Polyty S9 - Thin F1 - Loan	      ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  %	Type	Location  Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	e: ogroup): otion (Describe to Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not presesses Polyment Services Polyment Presesses Polyment Services Preses Polyment Preses Pre	      ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	      value Belo Dark Surf my Mucky my Gleyed	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L) L)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) rface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator    Indicator  Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) rface
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip  Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped S7 - Dark Su	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B) rface y must be present, unless
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 2 6	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped S7 - Dark Su	Chesuncook-Elliotts Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	wic Haple absence of ind  Matrix  Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator    Indicator  Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) rface y must be present, unless

# TETRA TECH

# WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W35El Sample Point **Upland** 

VEGETATION	(Species identified in all uppercase ar	e non-native s	species.)			
Tree Stratum (Plo	ot size: 10 meter radius)					
,	<u>Species Name</u>	_ 9/		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum		20	Y	FAC	
2.	Picea rubens		50	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC:2(A)
3.	Betula alleghaniensis		20	Υ	FAC	
4.	Acer pensylvanicum		15	Y	FACU	Total Number of Dominant Species Across All Strata: 8 (B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: <b>25.0%</b> (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp 0
	Tota	l Cover =	105			FACW spp 2
						FAC spp 46 x 3 =138
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp 120 x 4 = 480
1.						UPL spp 0 x 5 = 0
2.						
3.						Total(A)(B)
4.						
5.						Prevalence Index = B/A = 3.702
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.						☐ Yes ☑ No Dominance Test is > 50%
	Tota	l Cover =	0			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
						☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	rt size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Osmunda claytoniana		1	N	FAC	
2.	Coptis trifolia		2	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Athyrium angustum		5	N	FAC	present, unless disturbed or problematic.
4.	Maianthemum canadense		15	Y	FACU	Definitions of Vegetation Strata:
5.	Medeola virginiana		10	Y	FACU	
6	Viola palmata		15	Y	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Nabalus albus		5	N	FACU	height (DBH), regardless of height.
8.	Dryopteris campyloptera		10	Y	FACU	
9.				<u>'</u>		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
11.						
12.	_ <del></del>					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.	<b></b>					
	<b></b>					Woody Vines - All woody vines greater than 3.28 ft. in height.
15.	 T-4-	1.0				Woody Villes - All Woody Villes greater than 5.25 ft. in height.
	lota	I Cover =	63			
	(5)					
vvoody vine Strati	um (Plot size: 10 meter radius)					
1.	<del></del>			<b></b>		
2.	<del></del>					Under physic Voscototion Process C. V. C. N.
3.						Hydrophytic Vegetation Present ☐ Yes ☑ No
4.						
5.		l Cover =				
Pomorko:	ıota	l Cover =	0			
Remarks:						
	_					
Additional Rei	narks:					



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	Tojoot				r roject ii.	104-7 100		County:	Somerset
Investigator #1		ne renewables, LLO		Investi	igator #2:					State:	ME
Soil Unit:		-Elliottsville-Telos asso	ciation 2 to 1		igatoi #Z.		/I/WWI Classification	· DEM		Wetland ID:	W35EI
Landform:	Summit	·EIIIOttsville- i elos asso	ciation, 5 to		al Relief:			i. FLIVI			Wetland
		Latituda	4E 444600					Dotum	· NAD 03	Sample Point:	vvetianu
Slope (%):	See topo map		45.144638		ongitude:				:: NAD 83 ] No	-	
		ditions on the site ty	•			no, explain i				-	
_		or Hydrology ☐ sig	•				Are normal circumst	•	11.7		
		or Hydrology □ nat	urally prob	lematic?			□ Yes	☑ No			
SUMMARY OF	FINDINGS										
Hydrophytic Ve	egetation Pre	sent?			□ No	1		Hydric Soils	Present?		
Wetland Hydro	ology Present	?			□ No			Is This Sam	pling Point	Within A Wetla	nd? ☑ Yes □ No
Remarks:	Statewide o	drought									
<b>HYDROLOGY</b>											
Wetland Hyd	rology Indic	ators (Check here i	f indicators	are not	present						
Primary	• •	atoro (orreat here i	i ilialoatore	aro not	prodont	Щ			Secondary:		
		Water		П	B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	l Cracks
	l A2 - High Wa	ater Table			B13 - Aqı	uatic Faun	a			B10 - Drainage F	Patterns
✓					B15 - Ma	•			_	B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
	B2 - Sedimei	•					spheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift De						educed Iron				/isible on Aerial Imagery
	l   B4 - Algal Ma l   B5 - Iron Dep			_	Co - Reco		eduction in Tilled Soils			D1 - Stunted or S D2 - Geomorphic	
l		on Visible on Aerial Ima	agery		Other (Ex					D3 - Shallow Aqu	
l		y Vegetated Concave S		Н	Other (Ex	фіантінт	omarko)			D4 - Microtopogr	
		, 3								D5 - FAC-Neutra	
Field Observa	ntions:										
Surface Water		☐ Yes ☑ No	Donth		(in )						
		<u> </u>	Depth:		(in.)			Wetland Hy	drology Pr	resent?	] Yes □ No
Water Table P		☐ Yes ☑ No	Depth:	_	(in.)						
Saturation Pre	sent?	☑ Yes ☐ No	Depth:	8	(in.)						
Describe Recor	ded Data (str	eam gauge, monitori	ng well, aer	ial photos	s, previous	s inspecti	ons), if available:		N/A		
Domarka	Statovida	-ll- 4									
Remarks:	Statewide of	arougnt									
Remarks.	Statewide	arougnt									
	Statewide	arougnt									
SOILS			Tolos associa	ation 3 to 1	150/	9	eries Drainage Class	· moderately	well drained	1	
SOILS Map Unit Nam	e:	Chesuncook-Elliottsville-		•		S	eries Drainage Class	: moderately	well drained	I	
SOILS  Map Unit Nam Taxonomy (Su	e: bgroup):	Chesuncook-Elliottsville- Coarse-loamy, isoti	ic, frigid Ac	uic Hapl	orthods		•				
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e:  bgroup):   <b>ption</b> (Describe to	Chesuncook-Elliottsville- Coarse-loamy, isoti	ic, frigid Ac	uic Hapl	orthods		Series Drainage Class  D=Depletion, RM=Reduced Matrix, CS=	-Covered/Coated Sand Gr			Taxtura
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e: bgroup): ption (Describe to Bottom	Chesuncook-Elliottsville-Coarse-loamy, isoti	ic, frigid Ac	uic Hapl absence of indi Matrix	orthods cators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr	rains; Location: PL=Po	ore Lining, M=Matrix)	Texture
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e:  bgroup):   <b>ption</b> (Describe to	Chesuncook-Elliottsville- Coarse-loamy, isoti	dicator or confirm the	uic Hapl absence of indi Matrix	orthods cators.) (Type: 0		•	-Covered/Coated Sand Gr			
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e: bgroup): ption (Describe to Bottom	Chesuncook-Elliottsville-Coarse-loamy, isoti	ic, frigid Ac	uic Hapl absence of indi Matrix	orthods cators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr	rains; Location: PL=Po	ore Lining, M=Matrix)	
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville-Coarse-Ioamy, isoti the depth needed to document the inc	dicator or confirm the	uic Hapl absence of indi Matrix Moist)	orthods cators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Covered/Coated Sand Gr	rains; Location: PL=Po	ore Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	ic, frigid Acdicator or confirm the Color (I	uic Hapl absence of indi Matrix Moist) 2/1	orthods cators.) (Type: 0	E=Concentration,	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I	uic Hapl absence of indi Matrix Moist) 2/1 5/1	orthods cators.) (Type: 0	e=Concentration,	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  %  25	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 10	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR 	uic Hapl absence of indi Matrix Moist) 2/1 5/1	orthods (cators.) (Type: C	=Concentration, 10YR	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  % 25	Type   C	Location M	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	wic Hapl absence of indi Matrix Moist) 2/1 5/1	orthods cators.) (Type: C	 10YR  	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  % 25	Type  C	Location M	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	wic Hapl absence of indi Matrix Moist) 2/1 5/1	orthods (cators.) (Type: C	10YR	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  % 25	Type  C	Location  M	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 10	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 2/1 5/1	% 100 75	=Concentration,  10YR	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  % 25	Type   C	Location   M	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 2/1 5/1	orthods cators.) (Type: C	10YR	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  % 25	Type  C	Location   M	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl  absence of indi  Matrix  Moist)  2/1  5/1     tors are	orthods cators.) (Type: C	=Concentration,  10YR	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type C	Location   M matic Soils 1	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup):  ption (Describe to Bottom Depth 10 18 Soil Field In	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl  absence of indi  Matrix  Moist)  2/1  5/1     tors are	orthods cators.) (Type: C	=Concentration, 10YR ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B)	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type C	Location   M       matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In A1- Histosol A2 - Histic E	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl  absence of indi  Matrix  Moist)  2/1  5/1     tors are	orthods  cators.) (Type: C	10YR ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type C	Location  Location  M      matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LR	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In A1- Histosol A2 - Histic E	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods cators.) (Type: C	=Concentration, 10YR ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M      matic Soils <sup>1</sup> Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black Hi A4 - Hydroge	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods cators.) (Type: C	=Concentration, 10YR value Belo Dark Surf ny Mucky	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M          matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam) fine sandy loam silt loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black Hi A4 - Hydroge A5 - Stratified	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc  Horizon  ndicators (check he pipedon istic en Sulfide d Layers	Color (I 10YR 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods  cators.) (Type: C  %  100  75     not prese S8 - Polyt S9 - Thin F1 - Loan F2 - Loan F3 - Depl	=Concentration,  10YR ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M      matic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface	(e.g. clay, sand, loam) fine sandy loam silt loam (LRR K, L, R)
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10 NRCS Hydric	e: bgroup):  ption (Describe to Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods cators.) (Type: C	and the second s	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LRR K, L, M)  lucky Peat of Peat urface (LRR K, L, M)  luce Below Surface ark Surface (LRR K, K)	(e.g. clay, sand, loam) fine sandy loam silt loam (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup):  ption (Describe to  Bottom Depth  10 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick I	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Voist)  2/1  5/1     tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Masse	(e.g. clay, sand, loam) fine sandy loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick I S1 - Sandy N	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods cators.) (Type: C	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M   M    matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Massement Floodplain So	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup):  ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Voist)  2/1  5/1     tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Masse	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick I S1 - Sandy N	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Voist)  2/1  5/1     tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M	(e.g. clay, sand, loam) fine sandy loam silt loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Voist)  2/1  5/1     tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr    Mottles	Type  C	Location  Location  M  Location  M  Location  Location  In M  In I	(e.g. clay, sand, loam) fine sandy loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) S (LRR K, L, R) Dils (MLRA 149B) 145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Voist)  2/1  5/1     tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato   Indicators	Type  C	Location  Location  M   M      matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LRR k, L, M)  lucky Peat of Peat urface (LRR K, L, M)  lue Below Surface ark Surface (LRR K, M)  lue Below Surface (LRR K, L, M)	(e.g. clay, sand, loam) fine sandy loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) S (LRR K, L, R) Dils (MLRA 149B) 145, 149B)
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10	e: bgroup):  ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M   M     matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR urface (LRR K, L, M))  Jue Below Surface ark Surface (LRR K, M)  Jue Below Surface (LRR	(e.g. clay, sand, loam) fine sandy loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) si (LRR K, L, R) pils (MLRA 149B) 145, 149B) rface y must be present, unless
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 10 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Voist)  2/1  5/1     tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato   Indicators	Type  C	Location  Location  M  Location  M  Location  Location  In M  In I	(e.g. clay, sand, loam) fine sandy loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) S (LRR K, L, R) Dils (MLRA 149B) 145, 149B)
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 10	e: bgroup):  ption (Describe to Bottom Depth 10 18	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation  Horizon	Color (I 10YR 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 2/1 5/1 tors are	orthods cators.) (Type: 0  % 100 75 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ant	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  4/6  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	-Covered/Coated Sand Gr  Mottles  % 25 Indicato	Type  C	Location  Location  M   M     matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR urface (LRR K, L, M))  Jue Below Surface ark Surface (LRR K, M)  Jue Below Surface (LRR	(e.g. clay, sand, loam) fine sandy loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) si (LRR K, L, R) pils (MLRA 149B) 145, 149B) rface y must be present, unless

# TETRA TECH

# WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W35El Sample Point wetland

VEGETATION	(Species identified in all uppercase are non-nativ	e species	5.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
,	<u>Species Name</u>		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Picea mariana	30	Υ	FACW	
2.	Acer rubrum	10	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC:4(A)
3.	Acer pensylvanicum	5	N	FACU	
4.					Total Number of Dominant Species Across All Strata:4(B)
5.				-	
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 25 x 1 = 25
10.	Total Cover =	45			FACW spp. 70 x 2 = 140
	Total Gover –	40			FAC spp. 35
Sanling/Shrub Str	atum (Plot size: 5 meter radius)				<u>.</u>
3apiirig/3rii ub 3ti a					
7.					UPL spp 0
2.	<del></del>				T + 1
3.	<del></del>				Total <u>140</u> (A) <u>310</u> (B)
4.					
5.	<del></del>				Prevalence Index = B/A = 2.214
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cover =	0			
					 ☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	ot size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Osmundastrum cinnamomeum	20	Υ	FACW	
2.	Calamagrostis canadensis	25	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Eutrochium purpureum	25	Y	FAC	present, unless disturbed or problematic.
4.	Symphyotrichum novae-angliae	10	 N	FACW	Definitions of Vegetation Strata:
5.	Ribes lacustre	10	N	FACW	Definitions of Vegetation Strata.
6		5	N	FACU	Tree
	Dryopteris marginalis				<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	<del></del>				
8.	<del></del>				Open Line of Ohamah Woody plants loss than 3 in DRH and greater than 3.29 ft
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.	<del></del>				
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					11000, planto 1000 titali 0120 titali
14.					
15.				-	Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	95			
Woody Vine Strate	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					1. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
5.					
J.	Total Cover =				
Remarks:	Total Covel –	<u> </u>			
i tomarts.					
	_				
Additional Rei	marks:				
I					



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	,				,			County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:	Chesuncoc	k-Elliottsville-Telos	associatio	n, 3 to 1	5	NV	/I/WWI Classification:	: Upland		Wetland ID:	W37EI
Landform:	Terrace			Loc	cal Relief:	Linear				Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.143264°	, <u> </u>	ongitude:	45.1432	64°		NAD 83	]	
Are climatic/hy	drologic cond	ditions on the site ty	oical for thi	s time o	f year? (If	no, explain	n remarks)	□ Yes ☑	No		
_		or Hydrology 🛭 sig	-				Are normal circumst	•	t?		
		or Hydrology	urally prob	lematic?			□ Yes	☑ No			
SUMMARY OF											
Hydrophytic Ve	_			☐ Yes				Hydric Soils			☐ Yes ☑ No
Wetland Hydro				□ Yes	s ☑ No	)		Is This Sam	oling Point	Within A Wetlar	nd? □ Yes ☑ No
Remarks:	Statewide of	drought									
LIVEROLOGY											
HYDROLOGY						,					
	• •	<b>ators</b> (Check here i	f indicators	are not	present	Į			0		
<u>Primary</u> □	<u>/:</u>	Water			B9 - Wate	er-Stained	Leaves		<u>Secondary:</u> □	B6 - Surface Soil	Cracks
	A2 - High Wa				B13 - Aqu				_	B10 - Drainage P	
<b> </b>	A3 - Saturation	on			B15 - Ma	rl Deposits	}			B16 - Moss Trim	Lines
	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
	B2 - Sedimer B3 - Drift Dep	•					espheres on Living Roots educed Iron			C8 - Crayfish Bur	rows /isible on Aerial Imagery
	B4 - Algal Ma						eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron Dep				C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima / Vegetated Concave S			Other (Ex	kplain in Re	emarks)			D3 - Shallow Aqu	
"	Bo - Sparsery	vegetated Concave S	uriace							D4 - Microtopogra D5 - FAC-Neutra	
Field Observa	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)						
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	l Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ded Data (str	eam gauge, monitorir	<u> </u>			e inenecti	ons) if available:		N/A		
Remarks:	Statewide of		ig won, acri	iai prioto.	s, provious	o mopeou	ons), ii avallable.		14//		
rtemants.	Clatewide	aroagrit									
		J									
SOILS		J									
SOILS Map Unit Name	e:		e-Telos asso	ociation. 3	to 15%	S	eries Drainage Class:	: moderately v	well drained	1	
Map Unit Name		Chesuncook-Elliottsville				S	eries Drainage Class:	: moderately v	well drained	1	
Map Unit Name Taxonomy (Sul	bgroup):	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl	lorthods		•	•			
Map Unit Name Taxonomy (Sul <b>Profile Descri</b>	bgroup):	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl	lorthods		Depletion, RM=Reduced Matrix, CS=0	•			Texture
Map Unit Name Taxonomy (Sul <b>Profile Descri</b> ) Top	bgroup): ption (Describe to	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of ind Matrix	lorthods		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	nins; Location: PL=Po		<del>-</del>
Map Unit Name Taxonomy (Sul <b>Profile Descri</b>	bgroup):  ption (Describe to Bottom	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of ind Matrix	lorthods icators.) (Type: C		•	Covered/Coated Sand Gra		ore Lining, M=Matrix)	<del>-</del> .
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth	bgroup):  ption (Describe to Bottom Depth	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the incention Horizon	c, frigid Aq licator or confirm the Color (I	uic Hapl absence of ind Matrix Moist)	lorthods icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra  Mottles  %	Type	cre Lining, M=Matrix)  Location	(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2	bgroup):  ption (Describe to Bottom Depth 6	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR	uic Hapl absence of ind Matrix Moist) 3/2	icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	uic Haple absence of index Matrix Moist) 3/2 5/3	icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	uic Hapl habsence of ind Matrix Moist) 3/2 5/3	W	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR 	uic Haple absence of ind Matrix Moist) 3/2 5/3	% 100 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the  Color (I  10YR  10YR	wic Haple absence of index Matrix Moist) 3/2 5/3	(Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	wic Haple absence of index Matrix Moist) 3/2 5/3	Washington	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of index Matrix Moist) 3/2 5/3	Washington	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 Soil Field Ir A1- Histosol	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist) 3/2 5/3 tors are	which is a continuous of the c	      ent	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist) 3/2 5/3 tors are	% 100 100 not prese		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black History	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not presessed S8 - Polyty S9 - Thin F1 - Loan	==Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist) 3/2 5/3 tors are	% 100 100 not presesses Polyment Services Polyment Presesses Polyment Services Preses Polyment Preses Pre	==Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 100 not presesses Polymer Services Polymer Polymer Services Polymer P		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon  ndicators (check here) cipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not preses S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) I) S (LRR K, L, R) ils (MLRA 149B)
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not preses S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) I) S (LRR K, L, R) ils (MLRA 149B)
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not preses S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B)
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not preses S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not preses S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator    Indicator  Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3     tors are	% 100 100 not preses S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator  Indicator    Indicator  Indicator  Indicator	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
Map Unit Name Taxonomy (Sul Profile Descri Top Depth 2 6 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq icator or confirm the Color (I 10YR 10YR	uic Haple absence of ind Matrix Moist)  3/2  5/3      tors are	weight of the second se		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless

## 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 a	are non-native	species.)			
	ot size: 10 meter radius)		,			
	<u>Species Name</u>	( 	% Cover D	<u>Oominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum		15	Υ	FAC	
2.	Picea rubens		25	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.	Betula alleghaniensis		20	Υ	FAC	
4.	Acer pensylvanicum		10	Υ	FACU	Total Number of Dominant Species Across All Strata: 8 (B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp. $0 \times 1 = 0$
	Tot	tal Cover =	70			FACW spp. 2 x 2 = 4
						FAC spp. 41 x 3 = 123
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp. 90 x 4 = 360
1.						UPL spp. $0   x   5 = 0$
2.						
3.						Total 133 (A) 487 (B)
4.						
5.						Prevalence Index = B/A = 3.662
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.						☐ Yes ☑ No Dominance Test is > 50%
10.	Tot	tal Cover =	0			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
	100	(a) 00101	Ü			☐ Yes ☑ No Morphological Adaptations (Explain) *
Herh Stratum (Pla	t size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1	Osmunda claytoniana		1	N	FAC	☐ Tes ☑ No Problem Hydrophytic Vegetation (Explain)
2.	Coptis trifolia		2	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Athyrium angustum		5	N	FAC	present, unless disturbed or problematic.
4.	Maianthemum canadense		15	Y	FACU	Definitions of Vegetation Strata:
5.	Medeola virginiana		10	Y	FACU	Deminions of Vegetation Otrata.
6	Viola palmata		15	Y	FACU	Tree - W. Harland C. (7.0 - )
7.	Nabalus albus		5	N	FACU	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.			10	Y	FACU	
9.	Dryopteris campyloptera			<u>'</u>		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.	_ <del></del>					tall.
11.						
12.	<del></del>					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.	<b></b>			<del></del>		woody plants less than 3.28 ft. tall.
13. 14.	<b></b>			<b></b>		
	<del></del>					Woody Vines - All woody vines greater than 3.28 ft. in height.
15.		tal Cayar -				VVOody Villes 17th Westly Villes greater than e.ze it in Height
	100	tal Cover =	63			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(Diet sings 40 marks and 1)					
vvoody vine Strati	um (Plot size: 10 meter radius)					
1.	<b></b>			_ <b></b>		
2. 3.	<b></b>					Hydrophytic Vocatotion Present Voc No
	<del></del>					Hydrophytic Vegetation Present ☐ Yes ☑ No
4.	<del></del>					
5.		tal Cavar -				
Remarks:	lot	tal Cover =	0			
nemarks.						
A 1.1141						
Additional Rei	marks:					



-											
Project/Site:	Western Mai	ne Renewable Energy	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #	1: Emmy Irvin			Investi	igator #2:	:				State:	ME
Soil Unit:		iottsville-Telos association,	3 to 15%		<u>J</u>		VI/WWI Classification:	· PFM		Wetland ID:	W37EI
Landform:	Terrace	iottovino-10100 aodociation,	0 10 10 70	Loc	al Relief		VI, VV VVI Gladoilloadoll.			Sample Point:	Wetland
		Latituda	45 142200				G44	Datum	n: NAD 83	Sample Point.	VVetiana
Slope (%):	see topo map		45.143200			: -69.8669				4	
•		ditions on the site ty	•			no, explain i	·			4	
•		or Hydrology □ sig	•				Are normal circumst	•	nt'?		
		or Hydrology □ nat	turally prob	lematic?			□ Yes	☑ No			
SUMMARY OF	FINDINGS										
Hydrophytic V	egetation Pre	sent?		✓ Yes	. □ No	)		Hydric Soils	s Present?		
Wetland Hydro	ology Present	?		Yes	s □ No			Is This Sam	npling Point	Within A Wetla	nd? 🗹 Yes 🗆 No
Remarks:	Statewide o										
HYDROLOGY											
		ators (Check here i	if indicators	are not	present	□					
<u>Primar</u>	_								<u>Secondary</u>		
	A1 - Surface			_		er-Stained				B6 - Surface Soil	
	]   A2 - High Wa ]   A3 - Saturation					uatic Faun				B10 - Drainage F B16 - Moss Trim	
	B1 - Water M					rl Deposits rogen Sulfi			_	C2 - Dry-Season	
	B1 - Water w B2 - Sedimer						ospheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift Der	•					educed Iron			-	isible on Aerial Imagery
	B4 - Algal Ma			Ä			eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron Dep					Muck Sur				D2 - Geomorphic	Position
		on Visible on Aerial Ima	-		Other (Ex	xplain in Re	emarks)			D3 - Shallow Aqu	
	B8 - Sparsely	y Vegetated Concave S	Surface							D4 - Microtopogr	-
									Ш	D5 - FAC-Neutra	l Test
Field Observa	ations:										
Surface Water	r Present?	☐ Yes ☑ No	Depth:		(in.)			VA/ - 411 1 1-	l l D.		l Var Na
Water Table F	Present?	□ Yes ☑ No	Depth:		(in.)			wetland Hy	ydrology P	resent?	l Yes □ No
Saturation Pre		☑ Yes □ No	Depth:	_	(in.)						
			<u> </u>				\ 'C ''		N1/A		
	·	eam gauge, monitori	ng weii, aer	iai photos	s, previou	s inspecti	ons), ii avallable:		N/A		
Remarks:	Statewide of	drought									
SOILS											
Map Unit Nam	ie:	Chesuncook-Elliottsville-Te	elos association	, 3 to 15%		S	Series Drainage Class:	: moderately	well drained	d	
Taxonomy (Su	ubgroup):	Coarse-loamy, isot	ic, frigid Ag	uic Hapl	lorthods						
-	<u> </u>					C=Concentration.	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand G	rains: Location: PL=P	ore Lining, M=Matrix)	
Top	Bottom	the depart needed to document the mix		Matrix	icators.) (Type. C		, D-Depletion, Min-Mediaded Matrix, 00-0	Mottles	rains, Location. 1 L=1	ore Elling, W-Wattix)	Texture
•		Harizan	Color (I		0/		Color (Maiot)		T. #2.0	Location	(e.g. clay, sand, loam)
Depth	Depth	Horizon	Color (I	·	%		Color (Moist)	%	Туре	Location	<u> </u>
0	4		10YR	2/1	100						VFSL HIGH ORGANIC
4	12		10YR	5/1	75	10YR	7/8	25	С	M	ERY FINE SANDY LO
						<b>†</b>					
											+
<del></del>		<b></b>					<b></b>	<del></del>			
		<b></b>									
NRCS Hydrid	Soil Field Ir	ndicators (check he	ere if indica	tors are	not prese	ent 🗀:		<u>Indicato</u>	ors for Proble	ematic Soils <sup>1</sup>	
	A1- Histosol	·			S8 - Poly	value Belo	w Surface (LRR R, MLRA 149B)		A10 - 2 cm	Muck (LRR K, L, MLRA	149B)
	☐ A2 - Histic Ep	•					ace (LRR R, MLRA 149B)			t Prairie Redox (LR	•
	A3 - Black Hi						Mineral (LRR K, L)			lucky Peat of Peat	(LRR K, L, R)
	A4 - Hydroge					ny Gleyed				Surface (LRR K, L, M)	
	A5 - Stratified			V	-	leted Matri			-	lue Below Surface	
		ed Below Dark Surface	)			ox Dark Su			_	ark Surface (LRR к,	
	A12 - Thick [					leted Dark				Manganese Masse	
	] S1 - Sandy M ] S4 - Sandy G			Ц	ro - Red	ox Depres	SI 1016			nont Floodplain So c Spodic (MLRA 144A,	
_	」 S4 - Sandy G ] S5 - Sandy R	-								o Spodic (MLRA 144A, Parent Material	143, 1436)
	☐ S6 - Stripped									/ Shallow Dark Sui	face
		rface (LRR R, MLRA 149B)							•	ain in Remarks)	
]		(=,=. 0 ( 1705)							s of hydrophytic vege	tation and wetland hydrology	/ must be present, unless
Restrictive Layer								disturbed	d or problematic.		
DESTRUCTIVE LAVEL									·		
(If Observed)	Туре:	LEDGE		Depth:	12			Hydric Soil	·	V	Yes □ No
_	Туре:	LEDGE		Depth:	12				·	V	Yes □ No

## 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 upperca	ise are non-native	e species	.)		
Tree Stratum (Pl	ot size: 10 meter radius)					
_	<u>Species Name</u>		% Cover	_ <u>Dominant</u>	<u>Ind.Status</u>	Dominance Test Worksheet
1.	<b></b>					
2.						Number of Dominant Species that are OBL, FACW, or FAC:2 (A)
3.						
4.						Total Number of Dominant Species Across All Strata:2 (B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp. 50 x 1 = 50
		Total Cover =	0			FACW spp. 30 x 2 = 60
						FAC spp. 0 x 3 = 0
Sapling/Shrub Str	ratum (Plot size: 5 meter radius)					FACU spp. $0 \times 4 = 0$
1.						UPL spp. $0 \times 5 = 0$
2.						
3.	<del></del>					Total 80 (A) 110 (B)
4.						
5.						Prevalence Index = B/A = 1.375
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.	<b></b>					
	_ <del></del>					✓ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.	_ <del></del>	T-1-1 Cover =				
ı		Total Cover =	0			
						☐ Yes ☑ No Morphological Adaptations (Explain) *
	ot size: 2 meter radius)			· · · · · · · · · · · · · · · · · · ·	- ODI	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Carex crinita		50	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
2.	Carex intumescens		25	Y	FACW	present, unless disturbed or problematic.
3.	Onoclea sensibilis		5	N	FACW	
4.	<b></b>					Definitions of Vegetation Strata:
5.	<b></b>					
6						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.						taii.
11.						
12.						<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
		Total Cover =	80			
			_			
Woody Vine Strat	tum (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present ☑ Yes ☐ No
4.						
5.						
		Total Cover =	0			
Remarks:		10101 00111	<del>-</del>			
Additional Re	marks:					
7 (3 (3) (3) (3) (3)						



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	•				•			County:	Somerset
Investigator #1				Invest	igator #2:					State:	ME
Soil Unit:		Elliottsville-Telos asso	ciation, 3 to 1				/I/WWI Classification:	: Upland		Wetland ID:	W38EI
Landform:	Terrace		•		al Relief:			•		Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.142746°		ongitude:		)73°	Datum	: NAD 83		
		ditions on the site ty							No	1	
		or Hydrology □ sig				Tio, expiairi	Are normal circumst				
		or Hydrology □ sigi or Hydrology □ nat	,				□ Yes	☑ No			
		or riyurology 🗆 nat	urally prob	iematic:			_ 100				
SUMMARY OF				□ Vaa	N			Lludaia Caila	D=====================================		□ Vaa □ Na
Hydrophytic Vo	•			☐ Yes				Hydric Soils		A/'(I ' A \A/ (I	☐ Yes ☑ No
Wetland Hydro				□ Yes	s ☑ No			Is This Sam	ipling Point	<u> Within A Wetlaı</u>	nd? □ Yes ☑ No
Remarks:	Statewide of	drought									
<b>HYDROLOGY</b>											
Wetland Hvd	rology Indic	ators (Check here i	f indicators	are not	present	Į					
Primar		atoro (orrook rioro r	i ilidioatoro	aro mot	procent	تر			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	A2 - High Wa	ater Table			B13 - Aqu	uatic Faun	а			B10 - Drainage F	atterns
	]   A3 - Saturatio				B15 - Mai	•				B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
	B2 - Sedimei	•					spheres on Living Roots			C8 - Crayfish Bu	
							educed Iron				isible on Aerial Imagery
	]   B4 - Algal Ma ]   B5 - Iron Der				C6 - Rece		eduction in Tilled Soils		<del></del>	D1 - Stunted or S	
l	•	oosแร on Visible on Aerial Ima	agery	_	Other (Ex					D2 - Geomorphic D3 - Shallow Aqu	
l -		Vegetated Concave S	0 ,	Н	Other (EX	piairi ir r	marks)			D4 - Microtopogr	
		,								D5 - FAC-Neutra	
Field Observa	etione:										
			Б "		(i.e. )						
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent? □	l Yes ☑ No
Water Table P		☐ Yes ☑ No	Depth:		(in.)			-			
Saturation Pre	sent?	☐ Yes  ☑ No	Depth:		(in.)						
Describe Recor	ded Data (str	eam gauge, monitorir	ng well, aeri	ial photos	s, previous	s inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought				<u>'</u>					
Remarks:	Statewide o	drought				<u> </u>	,				
	Statewide o	drought					,				
SOILS							·				
SOILS Map Unit Nam	e:	Chesuncook-Elliottsville			to 15%		eries Drainage Class:	: moderately	well drained		
SOILS  Map Unit Nam Taxonomy (Su	e: ibgroup):	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl	to 15%	S	eries Drainage Class:	j			
SOILS  Map Unit Nam Taxonomy (Su	e: ibgroup):	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl	to 15%	S	·	j			
SOILS  Map Unit Nam Taxonomy (Su	e: ibgroup):	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl	to 15%	S	eries Drainage Class:	j			Texture
SOILS  Map Unit Nam Taxonomy (Su	e: lbgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of indi Matrix	to 15%	S	eries Drainage Class:	Covered/Coated Sand Gr			Texture (e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq dicator or confirm the Color (I	uic Hapl absence of indi Matrix Moist)	to 15% orthods icators.) (Type: C	S	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gr	rains; Location: PL=Pc	ore Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: ibgroup): iption (Describe to Bottom Depth 6	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Voist) 3/2	to 15% orthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: ibgroup): iption (Describe to Bottom Depth 6	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Voist) 3/2	to 15% orthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: bgroup): ption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: lbgroup): lption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: lbgroup): iption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: bgroup): bgroup): Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Hapl absence of indi Matrix Moist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2	e: lbgroup): lption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	uic Hapl absence of indi Matrix Voist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6	e: lbgroup): lption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Voist) 3/2 5/3	to 15% lorthods icators.) (Type: C	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 12 Soil Field In	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3      tors are	to 15% lorthods icators.) (Type: Colored to 100 100 100 not prese	Seconcentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 12 Soil Field In	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3      tors are	to 15% lorthods icators.) (Type: Colored to 100	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic E	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aq dicator or confirm the	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3      tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	S=Concentration, value Belo	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location Muck (LRR K, L, MLRA Prairie Redox (LRI	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: bgroup): bgroup): Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic E	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3      tors are	to 15% lorthods icators.) (Type: Control  % 100 100 not presence S8 - Polymon S9 - Thin F1 - Loan	S=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRI ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon  ndicators (check here) stic en Sulfide	c, frigid Aq dicator or confirm the	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location Muck (LRR K, L, MLRA Prairie Redox (LRI	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon  ndicators (check here) stic en Sulfide	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: 0	=Concentration,	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field Ir A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Control % 100 100 not presence S8 - Polymon S9 - Thin F1 - Loan F2 - Loan F3 - Deple	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L) L)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Colored to 100 100 100 not prese S8 - Polyth S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple F7 - Depl	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic E A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the ince  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B) face
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6 NRCS Hydric	Bottom Depth 6 12	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3     tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B) face
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 2 6	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick I S1 - Sandy I S4 - Sandy I S5 - Sandy I S6 - Stripped S7 - Dark Su	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3      tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 2 6	Bottom Depth 6 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick I S1 - Sandy I S4 - Sandy I S5 - Sandy I S6 - Stripped S7 - Dark Su	Chesuncook-Elliottsville Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aquicator or confirm the Color (I 10YR 10YR ere if indica	uic Hapl  absence of indi  Matrix  Moist)  3/2  5/3      tors are	to 15% lorthods icators.) (Type: Comparison of the comparison of t	=Concentration, value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	eries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B) face

## 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-na	ative species.	)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	<u>Species Name</u>		Dominant	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	15	Y	FAC	
2.	Picea rubens	25	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC:2(A)
3.	Betula alleghaniensis	20	Y	FAC	
4.	Acer pensylvanicum	10	Υ	FACU	Total Number of Dominant Species Across All Strata:8(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>25.0%</b> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	<b></b>				OBL spp. 0 x 1 = 0
	Total Cove	r = 70			FACW spp. 2 x 2 = 4
					FAC spp. $x 3 = 123$
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 90 x 4 = 360
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total 133 (A) 487 (B)
4.	<b></b>				
5.					Prevalence Index = B/A = 3.662
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☐ No Dominance Test is > 50%
	Total Cove	r = 0			Yes □ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☐ No Morphological Adaptations (Explain) *
,	t size: 2 meter radius)			_	☐ Yes ☐ No Problem Hydrophytic Vegetation (Explain) *
1.	Osmunda claytoniana	1	N	FAC	* Indicators of hydric soil and wetland hydrology must be
2.	Coptis trifolia	2	N	FACW	present, unless disturbed or problematic.
3.	Athyrium angustum	5	N	FAC	
4.	Maianthemum canadense	15	Υ	FACU	Definitions of Vegetation Strata:
5.	Medeola virginiana	10	Υ	FACU	
6	Viola palmata	15	Υ	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Nabalus albus	5	N	FACU	height (DBH), regardless of height.
8.	Dryopteris campyloptera	10	Υ	FACU	
9.					<b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					<del></del>
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					
14.					
15.	<b></b>				Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cove	r = 63			
Woody Vine Stratu	um (Plot size: 10 meter radius)				
1.	<u></u>				
2.	<u></u>				
3.					<b>Hydrophytic Vegetation Present</b>
4.					
5.		<b></b>			
	Total Cove	r = 0			
Remarks:					
Additional Ren	narks:				



Are Vegetation Are Vegetation SUMMARY OF	Western Mai : Emmy Irvin Chesuncook Terrace See topo map drologic cond	ditions on the site ty or Hydrology □ sig or Hydrology □ nat	ciation, 3 to 1 45.142722° pical for thi nificantly di	Loc Loc s time of isturbed? lematic?	?	NW Linear -69.8668 no, explain i		Datum □ Yes ☑ tances presen ☑ No		Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W38EI <b>Wetland</b>
Hydrophytic Ve				☑ Yes				Hydric Soils		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	☑ Yes □ No
Wetland Hydro Remarks:	Statewide o			Yes	□ No			is this Sam	pling Point	Within A Wetlar	nd? ✓ Yes □ No
ixemaiks.	Statewide	arougin									
HYDROLOGY											
Primary  Primary	A1 - Surface A2 - High Wa A3 - Saturation B1 - Water Mater	ater Table on Marks nt Deposits posits at or Crust	agery		B9 - Wate B13 - Aqu B15 - Mar C1 - Hydro C3 - Oxidi C4 - Preso	latic Fauna I Deposits logen Sulfi lized Rhizo ence of Re ent Iron Re Muck Surf	de Odor spheres on Living Roots educed Iron duction in Tilled Soils			B6 - Surface Soil B10 - Drainage P B16 - Moss Trim C2 - Dry-Season C8 - Crayfish Bur	ratterns Lines Water Table rows Tisible on Aerial Imagery stressed Plants Position itard aphic Relief
Field Observa Surface Water Water Table P Saturation Pres	Present? resent?	☐ Yes ☑ No ☐ Yes ☑ No ☑ Yes ☐ No	Depth: Depth: Depth:	_	(in.) (in.) (in.)			Wetland Hy	drology Pr	esent? ☑	Yes □ No
	•	eam gauge, monitorir	ng well, aeri	al photos	, previous	s inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
SOILS											
Map Unit Nam	e:	0						· moderately	well drained	1	
						<u>15% S</u>	eries Drainage Class:	. moderately v			
Taxonomy (Su	<u> </u>	Coarse-loamy, isoti	c, frigid Aq	uic Hapl	orthods		•	•			
Taxonomy (Su Profile Descri	ption (Describe to	Coarse-loamy, isoti	c, frigid Aq	uic Haple absence of indic	orthods		eries Drainage Class: D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra		ore Lining, M=Matrix)	Texture
Taxonomy (Su Profile Descri Top	ption (Describe to Bottom	Coarse-loamy, isoti	c, frigid Aq	uic Haple absence of indic Matrix	orthods		D=Depletion, RM=Reduced Matrix, CS=0	•	ains; Location: PL=Pc	ore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
Taxonomy (Su Profile Descri	ption (Describe to	Coarse-loamy, isoti	c, frigid Aq	uic Haple absence of indic Matrix	orthods cators.) (Type: C:		•	Covered/Coated Sand Gra		1	(e.g. clay, sand, loam)
Taxonomy (Su Profile Descri Top Depth	Ption (Describe to Bottom Depth	Coarse-loamy, isoti the depth needed to document the inc Horizon	c, frigid Aq licator or confirm the Color (I	uic Haple absence of indic Matrix Moist)	orthods cators.) (Type: Cators.)	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra  Mottles  %	ains; Location: PL=Po	Location	(e.g. clay, sand, loam) VFSL HIGH ORGANIC
Taxonomy (Su Profile Descri Top Depth 0	ption (Describe to Bottom Depth	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR	uic Haple absence of indic Matrix Moist) 2/1	orthods cators.) (Type: C-	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location 	(e.g. clay, sand, loam) VFSL HIGH ORGANIC
Taxonomy (Su Profile Descri Top Depth 0 4	Ption (Describe to Bottom Depth 4 12	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Haple absence of indice Matrix Moist) 2/1 5/1	orthods cators.) (Type: Cators.)  % 100 75	=Concentration, 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   7/8	Covered/Coated Sand Gra  Mottles  %   25	Type C	Location M	(e.g. clay, sand, loam)  VFSL HIGH ORGANIC  ERY FINE SANDY LOA
Taxonomy (Su Profile Descri Top Depth 0 4	Ption (Describe to Bottom Depth 4 12	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR	uic Haple absence of indice Matrix Moist) 2/1 5/1	orthods cators.) (Type: Cators.)  % 100 75	=Concentration, 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  7/8	Covered/Coated Sand Gra  Mottles  % 25	Type   C	Location M	(e.g. clay, sand, loam)  VFSL HIGH ORGANIC  ERY FINE SANDY LOA
Taxonomy (Su Profile Descri Top Depth 0 4	Ption (Describe to Bottom Depth 4 12	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the  Color (I  10YR  10YR	uic Haple absence of indic Matrix Moist) 2/1 5/1	orthods cators.) (Type: C:	=Concentration,  10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  7/8	Covered/Coated Sand Gra  Mottles  % 25	Type   C	Location M	(e.g. clay, sand, loam)  VFSL HIGH ORGANIC  ERY FINE SANDY LOA
Taxonomy (Su Profile Descri Top Depth 0 4	Ption (Describe to Bottom Depth 4 12	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq licator or confirm the Color (I 10YR 10YR	uic Haple absence of indic Matrix Moist) 2/1 5/1	orthods cators.) (Type: Ci	=Concentration,  10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  7/8	Covered/Coated Sand Gra  Mottles  % 25	Type  C	Location M	(e.g. clay, sand, loam)  VFSL HIGH ORGANIC  ERY FINE SANDY LOA
Taxonomy (Su Profile Descri Top Depth 0 4 NRCS Hydric	Bottom Depth 4 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A12 - Thick I S1 - Sandy N S4 - Sandy N S5 - Sandy F S6 - Stripped S7 - Dark Su	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR ere if indica	uic Haple absence of indic Matrix Moist) 2/1 5/1 tors are	orthods cators.) (Type: Cators.)  % 100 75 not prese S8 - Polyw S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	=Concentration, 10YR	Color (Moist)  7/8   W Surface (LRR R, MLRA 149B) Ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix ( rface Surface	Covered/Coated Sand Gra  Mottles  % 25 Indicato	Type  C	Location  M	(e.g. clay, sand, loam)  VFSL HIGH ORGANIC  ERY FINE SANDY LOA      149B)  R K, L, R)  (LRR K, L, R)  (LRR K, L, R)  ils (MLRA 149B)  145, 149B)  face  must be present, unless
Taxonomy (Su Profile Descri Top Depth 0 4 NRCS Hydric	Bottom Depth 4 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A12 - Thick I S1 - Sandy N S4 - Sandy N S5 - Sandy F S6 - Stripped S7 - Dark Su	Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 10YR ere if indica	uic Haple absence of indic Matrix Moist) 2/1 5/1 tors are	orthods cators.) (Type: Cators.)  % 100 75 not prese S8 - Polyw S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	=Concentration, 10YR	Color (Moist)  7/8   W Surface (LRR R, MLRA 149B) Ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix ( rface Surface	Covered/Coated Sand Gra  Mottles  % 25 Indicato	Type  C	Location  M	(e.g. clay, sand, loam)  VFSL HIGH ORGANIC  ERY FINE SANDY LOA      149B)  R K, L, R)  (LRR K, L, R)  (LRR K, L, R)  ils (MLRA 149B)  145, 149B)  face

## 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 uppercas	se are non-native	species	1.)		
Tree Stratum (Plo	ot size: 10 meter radius)					
	<u>Species Name</u>	_	% Cover		Ind.Status	Dominance Test Worksheet
1.	Picea mariana		20	Y	FACW	
2.	Acer rubrum		5	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.	Fagus grandifolia		5	N	FACU	
4.	Picea rubens		5	N	FACU	Total Number of Dominant Species Across All Strata:3(B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp45
	٦	Total Cover =	35			FACW spp 35
						FAC spp 5
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp 10 x 4 = 40
1.	Alnus incana		10	Υ	FACW	UPL spp 0
2.						
3.						Total 95 (A) 170 (B)
4.						
5.						Prevalence Index = B/A = 1.789
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.						☑ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.						☑ Yes ☐ No Dominance Test is > 50%
	-	Total Cover =	10			☑ Yes ☐ No Prevalence Index is ≤ 3.0 *
						☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Carex stricta		10	N	OBL	To E No Troblem Tryarophysic Vogetation (Explain)
2.	Scirpus cyperinus		25	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Onoclea sensibilis		5	N	FACW	present, unless disturbed or problematic.
4.	Eutrochium maculatum		10	N	OBL	Definitions of Vegetation Strata:
5.						Dominiono di Vogotation Girata.
6						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						
9.	<u></u>		<del></del>	 		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.	 		<del></del>			tall.
11.						
12.						<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
	<del></del>					woody plants less than 3.28 ft. tall.
13.						
14.						Woody Vines - All woody vines greater than 3.28 ft. in height.
15.	_ <del></del>	<del> </del>				Woody Vines - All woody Vines greater than 3.28 it. In height.
		Fotal Cover =	50			
\A(\)	(DI 1 1 10 11 11 11 11 11 11 11 11 11 11 11					
Woody Vine Strati	um (Plot size: 10 meter radius)					
1.	<b></b>			<b></b>		
2.	<del></del>					Hydronbytic Veretation Bresent No.
3.	<b></b>					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.						
5.		F-4-1-C				
Dame and a	7	Total Cover =	0			
Remarks:						
Additional Rer	narks:		_			



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1	-				igator #2:					State:	ME
Soil Unit:		Elliottsville-Telos associat	ion, 3 to 15%		al Daliafu		VI/WWI Classification:	Upland		Wetland ID:	W43EI
Landform:	Terrace	Latitudo:	45 140627		cal Relief: ongitude:		460	Datum:	NAD 83	Sample Point:	Upland
Slope (%):  Are climatic/by	See topo map	ditions on the site ty	45.140627						No	1	
		or Hydrology □ sig				Tio, explain	Are normal circumsta				
_		or Hydrology □ nat	-				□ Yes	⊠ No			
SUMMARY OF		or right oragy in that	arany prop	· · · · · · · · · · · · · · · · · · ·							
Hydrophytic Ve		sent?		☐ Yes	s ☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydro	•			□ Yes						Within A Wetlaı	nd? 🗆 Yes 🗹 No
Remarks:	Statewide o	drought									
LIVEROL OCY											
HYDROLOGY Wetland Hyd	rology India	otoro (Chaok hara i	findicators	oro not	procent	<b>—</b>					
Primary	• • •	ators (Check here i	rindicators	are not	present	过			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage F	
	A3 - Saturation B1 - Water M				B15 - Mai C1 - Hydr				_	B16 - Moss Trim C2 - Dry-Season	
	B2 - Sedimer				-	_	ospheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift Dep						educed Iron				isible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep			_	C6 - Rece C7 - Thin		eduction in Tilled Soils			D1 - Stunted or S D2 - Geomorphic	
		on Visible on Aerial Ima	igery		Other (Ex					D3 - Shallow Aqu	
		y Vegetated Concave S			`		,			D4 - Microtopogr	aphic Relief
									Ц	D5 - FAC-Neutra	I l'est
Field Observa					<i>(</i> ; )						
Surface Water Water Table P		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	l Yes ☑ No
Saturation Pre		□ Yes   ☑ No □ Yes   ☑ No	Depth: Depth:		(in.) (in.)						
			•			- !	ana) if and lable.		NI/A		
	•	eam gauge, monitorir	ng well, aeri	iai priotos	s, previous	s inspecii	ons), ii avaliable:		N/A		
Remarks:	Statewide of	arougni									
SOILS											
Map Unit Nam	e:	Chesuncook-Elliottsville-	Telos associa	ation, 3 to	15%	S	Series Drainage Class:	: moderately v	vell drained		
Taxonomy (Su		Coarse-loamy, isoti								-	
Profile Descri	ption (Describe to	the depth needed to document the inc	licator or confirm the	absence of ind	icators.) (Type: C	C=Concentration	, D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix	_			Mottles			Texture
Depth	Depth	Horizon	Color (I	Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
0	12		10YR	5/3	100						fine sandy loam
NRCS Hydric		ndicators (check he								matic Soils <sup>1</sup>	
_	A1- Histosol	- Land Carlook He	maioa		-	•	w Surface (LRR R, MLRA 149B)			Muck (LRR K, L, MLRA	149B)
	A2 - Histic Ep	•					ace (LRR R, MLRA 149B)			Prairie Redox (LRI	· · · /
	]A3 - Black Hi ]A4 - Hydroge						Mineral (LRR K, L) Matrix			ucky Peat of Peat urface (LRR к, L, м)	(LRR K, L, R)
	A5 - Stratified				F3 - Depl					lue Below Surface	(LRR K, L)
	A11 - Deplete	ed Below Dark Surface			F6 - Redo	ox Dark Sı	urface		S9 - Thin Da	ark Surface (LRR к,	L)
	A12 - Thick E				F7 - Depl					Manganese Masse	
	]  S1 - Sandy M ]  S4 - Sandy G				F8 - Redo	ox Depres	510115			nont Floodplain So Spodic (м∟ка 144а,	
	S5 - Sandy R	-								Parent Material	140, 1400)
=	S6 - Stripped								-	Shallow Dark Sur	face
	」S7 - Dark Su	rface (LRR R, MLRA 149B)								ain in Remarks) ation and wetland hydrology	/ must be present, unless
Destal et le 1									or problematic.	,	
Restrictive Layer											
(If Observed)	Type:	NR		Depth:	12			Hydric Soil	Present?		Yes ☑ No
Remarks:	Туре:	NR		Depth:	12			Hydric Soil	Present?		Yes ☑ No

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W43EI Sample Point Upland

<b>VEGETATION</b>	(Species identified in all uppercase are non-native	e species	.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Betula lenta	75	Υ	FACU	
2.	Acer rubrum	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.	Fraxinus nigra	5	N	FACW	
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					(2)
					Demonstration and Connection That Are ORL EACIAL on EAC. 25.09/ (A/P)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u><b>25.0%</b></u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0 x 1 = 0
	Total Cover =	100			FACW spp. 5 x 2 = 10
					FAC spp. 35 x 3 = 105
Sanling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 130 x 4 = 520
1	Acer pensylvanicum	5	N	FACU	UPL spp. $0   x   5 = 0$
2.	Betula lenta	20	Y	FACU	OFL 9pp
					T ( ) (A) (D)
3.	Acer rubrum	10	N	FAC	Total 170 (A) 635 (B)
4.	<b></b>				
5.					Prevalence Index = B/A = 3.735
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					
10.	Total Cover -	 25			
	Total Cover =	35			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Medeola virginiana	5	N	FACU	* Indicators of budrio soil and watland hydrology must be
2.	Polystichum acrostichoides	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Phegopteris hexagonoptera	5	N	FACU	present, unless disturbed of problematic.
4.	Athyrium angustum	5	N	FAC	Definitions of Vegetation Strata:
5.					
6					Tree - Mars de alordo 2 in (7.0 mm) au margo in diameter et broost
					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	<del></del>				
8.					2 Meady plants less than 2 in DDH and greater than 2.29 ft
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
10.					Troody Filles - 7 5
	Total Cover =	35			
_					
Woody Vine Stratu	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present   Yes   No
4.					
5.					
<del></del>	Total Cover =	0			
Remarks:	10101 0010.				
Nemano.					
Additional Rer	marks:				
			<del></del>	<del></del>	



I Droidci/Sita.	Mostorn Mai	no Ponowahla Energy I	Project				Project #:	194-7130		Date:	09/09/20
Project/Site:		ne Renewable Energy I	Project				Project #.	194-7 130			
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1					gator #2:					State:	ME
Soil Unit:	Chesuncook-E	Elliottsville-Telos associa	tion, 3 to 15%				/I/WWI Classification	: PFO		Wetland ID:	W43EI
Landform:	Terrace			Loc	al Relief:	Linear				Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.142152	Lo	ongitude:	-69.8676	85	Datum	: NAD 83		
Are climatic/hy	drologic cond	ditions on the site ty	pical for thi	is time of	year? (If	no, explain i	n remarks)	□ Yes ☑	No	]	
Are Vegetation	n □. Soil □.	or Hydrology □ sig	nificantly d	isturbed?	?		Are normal circumst	tances preser	nt?	1	
_		or Hydrology □ nat	•				□ Yes	☑ No ˙			
SUMMARY OF		or riyarology in had	draily prob	iomatio.							
		10			— N-			l la calai a O a il a	D		
Hydrophytic Ve								Hydric Soils			☑ Yes □ No
Wetland Hydro					□ No			Is This Sam	pling Point '	Within A Wetla	nd? ☑ Yes □ No
Remarks:	Statewide of	drought									
<b>HYDROLOGY</b>											
		atoro (Chaek here i	findicators	oro not	procent						
		<b>ators</b> (Check here i	indicators	are not	present				Cocondom		
Primar		Water			B9 - Wate	or Stained	Leaves		Secondary:	B6 - Surface Soi	l Cracks
l	A1 - Surface  A2 - High Wa			_	B13 - Aqu				<del></del>	B10 - Drainage F	
	_				B15 - Mai					B16 - Moss Trim	
1	B1 - Water M				C1 - Hydr	•			_	C2 - Dry-Season	
	B2 - Sedime				-	_	spheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift De	•					educed Iron			•	/isible on Aerial Imagery
	]   B4 - Algal Ma	at or Crust			C6 - Rece	ent Iron Re	eduction in Tilled Soils			D1 - Stunted or S	0 1
					C7 - Thin	Muck Sur	face			D2 - Geomorphic	c Position
		on Visible on Aerial Ima			Other (Ex	oplain in Re	emarks)			D3 - Shallow Aqu	
	B8 - Sparsely	y Vegetated Concave S	Surface							D4 - Microtopogr	
									Ц	D5 - FAC-Neutra	al lest
Field Observa	ations:										
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)						
Water Table P		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent? ⊻	☐ Yes ☐ No
Saturation Pre		☑ Yes □ No	Depth:	_	(in.)						
Describe Recor	ded Data (str	eam gauge, monitori	ng well, aer	ial photos	s, previous	s inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
Remarks:	Statewide o	drought									
	Statewide o	drought									
SOILS				24-450/			orios Drainago Class	· moderately	woll drained	ı	
SOILS Map Unit Nam	e:	Chesuncook-Elliottsville-Te		•	o wtho o do	S	eries Drainage Class	: moderately	well drained	I	
SOILS  Map Unit Nam Taxonomy (Su	e: ıbgroup):	Chesuncook-Elliottsville-Te	ic, frigid Ac	uic Hapl			•	•			
SOILS  Map Unit Nam Taxonomy (Su	e: lbgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsville-Te	ic, frigid Ac	uic Hapl			eries Drainage Class  D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr			
SOILS  Map Unit Nam Taxonomy (Su	e: ıbgroup):	Chesuncook-Elliottsville-Te	ic, frigid Ac	uic Hapl			•	•			Texture
SOILS  Map Unit Nam Taxonomy (Su	e: lbgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsville-Te	ic, frigid Ac	uic Hapl absence of india Matrix			•	Covered/Coated Sand Gr			<del></del>
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville-Te Coarse-loamy, isoti	ic, frigid Ac	uic Hapl absence of indi Matrix Moist)	cators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr	ains; Location: PL=Po	ore Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: ibgroup): iption (Describe to Bottom Depth 6	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the ind Horizon	ic, frigid Acdicator or confirm the Color (I	uic Hapl absence of india Matrix Moist) 2.5/1	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) mucky sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8	Covered/Coated Sand Gr  Mottles  %  20	Type C	Location M	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: ibgroup): iption (Describe to Bottom Depth 6	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	ic, frigid Acdicator or confirm the Color (I	uic Hapl absence of india Matrix Moist) 2.5/1	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) mucky sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8	Covered/Coated Sand Gr  Mottles  % 20	Type C	Location M	(e.g. clay, sand, loam) mucky sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	e: lbgroup): lption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Hapl absence of india Matrix Moist) 2.5/1 5/1	% 100 70	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8  7/1	Covered/Coated Sand Gr  Mottles  %   20 10	Type C D	Location M M	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6	e: lbgroup): iption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Hapl habsence of indice matrix Moist) 2.5/1 5/1	% 100 70	 7.5YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8  7/1	Covered/Coated Sand Gr  Mottles  %   20  10	Type C D	Location M M	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	e: lbgroup): lbgroup): Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70	 7.5YR 5Y 	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1	Covered/Coated Sand Gr  Mottles  % 20 10	Type C D	Location   M  M	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	e: lbgroup): lption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70	 7.5YR 5Y  	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8  7/1	Covered/Coated Sand Gr  Mottles  % 20 10	Type   C  D	Location   M  M	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	e: lbgroup): lption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70	 7.5YR 5Y   	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1	Covered/Coated Sand Gr  Mottles  %  20 10	Type  C D	Location   M  M	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	bgroup): iption (Describe to Bottom Depth 6 13 Soil Field In	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1 tors are	% 100 70 not prese	7.5YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8  7/1	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type C D rs for Proble	Location   M  M	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13 Soil Field In	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1 tors are	% 100 70 not prese	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1 w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type C D s for Proble	Location  Location  M  M      matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13 Soil Field In A1- Histosol A2 - Histic E	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Hapl  absence of indice  Matrix  Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)   5/8  7/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D s for Proble A10 - 2 cm A16 - Coast	Location  Location  M  M      matic Soils  Tensive Redox (LRR K, L, MLRA)	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D rs for Proble A10 - 2 cm A16 - Coast S3 - 5cm M	Location  Location  M  M      matic Soils <sup>1</sup> Muck (LRR K, L, MLRA & Prairie Redox (LR ucky Peat of Peat	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroge	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon  ndicators (check he	Color (I 7.5YR 5Y	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	7.5YR 5Y value Belo Dark Surf	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S	Location  Location  M  M     matic Soils  Muck (LRR K, L, MLRA E Prairie Redox (LR UCKy Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon  ndicators (check he pipedon istic en Sulfide d Layers	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval	Location  Location  M  M     matic Soils  Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13 Soil Field Ir A1- Histosol A2 - Histic El A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist) 2.5/1 5/1	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y value Belo Dark Surfany Mucky Iny Gleyed eted Matrix ox Dark Su	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da	Location  Location  M  M     matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M)  lue Below Surface ark Surface (LRR K, k)	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	e: lbgroup): lption (Describe to Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M	Location  Location  M  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Masse	(e.g. clay, sand, loam) mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location  Location  M  M    matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M)  lue Below Surface ark Surface (LRR K, Manganese Massement Floodplain Scientific	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	Bottom Depth 6 13 Soil Field In A1- Histosol A2 - Histic E A4 - Hydroge A5 - Stratified A1- Deplete A1- Candy N S1 - Sandy N S4 - Sandy N	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type C D	Location  Location  M  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Masse	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D	Location  Location  M  M  M     matic Soils  Muck (LRR K, L, MLRA t Prairie Redox (LR urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the inc  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr    Mottles	Type C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very	Location  Location  M  M	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6 NRCS Hydric	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the interpretation	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D	Location  Location  M  M     matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) tue Below Surface (LRR K, Manganese Massement Floodplain Soto Spodic (MLRA 144A, Parent Material of Shallow Dark Surface (LRR K, Manganese Massement Floodplain Soto Spodic (MLRA 144A, Parent Material of Shallow Dark Surface (LRR K)	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the interpretation	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D	Location   M  M  M      matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So c Spodic (MLRA 144A, Parent Material Shallow Dark Su ain in Remarks)	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 6	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the interpretation  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D	Location   M  M  M      matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So the Spodic (MLRA 144A, Parent Material Shallow Dark Su ain in Remarks)	(e.g. clay, sand, loam)  mucky sandy loam loamy sand
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 6	Bottom Depth 6 13	Chesuncook-Elliottsville-Te Coarse-loamy, isoti the depth needed to document the interpretation  Horizon	Color (I 7.5YR 5Y ere if indica	uic Haple absence of indice Matrix Moist)  2.5/1  5/1     tors are	% 100 70 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	7.5YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  5/8 7/1  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % 20 10 Indicato	Type  C D	Location   M  M  M      matic Soils   Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So the Spodic (MLRA 144A, Parent Material Shallow Dark Su ain in Remarks) ation and wetland hydrolog	(e.g. clay, sand, loam)  mucky sandy loam loamy sand

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W43El Sample Point wetland

VEGETATION	(Species identified in all uppercase are non-n	ative species	)		
	ot size: 10 meter radius)	ative species.	• )		
,	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Fraxinus nigra	10	Υ	FACW	
2.	Betula papyrifera	20	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC:4(A)
3.	Betula alleghaniensis	20	Υ	FAC	
4.	Picea mariana	5	N	FACW	Total Number of Dominant Species Across All Strata:7(B)
5.	Acer rubrum	10	Υ	FAC	
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 57.1% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $0   x   1 = 0$
	Total Cove	er = 65			FACW spp. 25 x 2 = 50
					FAC spp. $30   x   3 = 90$
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 45 x 4 = 180
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total 100 (A) 320 (B)
4.					
5.					Prevalence Index = B/A = 3.200
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cove	er = 0			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Onoclea sensibilis	10	Υ	FACW	
2.		5	N	FAVW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.		10	Υ	FACU	present, unless disturbed or problematic.
4.		5	N	FACU	Definitions of Vegetation Strata:
5.		10	Υ	FACU	
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cove	er = 40			
Woody Vine Strate	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present 🗹 Yes 🗆 No
4.					
5.					
	Total Cove	er = 0			
Remarks:					
Additional Ren	narks:				



Project/Site: Applicant:	Western Mai	ne Renewable Energy ne Renewables, LLC	Project				Project #:	194-7130		Date: County:	09/09/20 Somerset
Investigator #1 Soil Unit:	Chesuncook-E	Elliottsville-Telos associa	ation, 3 to 15%	)	igator #2:	NV	/I/WWI Classification:	: Upland		State: Wetland ID:	ME W47EI
Landform: Slope (%):	Terrace See topo map	l atitude	: 45.140627		cal Relief: .ongitude:		460	Datum	: NAD 83	Sample Point:	Upland
		ditions on the site ty							No	1	
•		or Hydrology □ sig	•				Are normal circumst				
_		or Hydrology □ na	•				□ Yes	☑ No ˙			
<b>SUMMARY OF</b>	FINDINGS										
Hydrophytic Ve	_			☐ Yes				Hydric Soils			☐ Yes ☑ No
Wetland Hydro				☐ Yes	s ☑ No	)		Is This Sam	pling Point '	Within A Wetlar	nd? 🗆 Yes 🗹 No
Remarks:	Statewide of	drought									
HYDROLOGY											
	rology India	otoro (Chaok hara	if indicators	are net	procent	$\vdash$					
Primary		ators (Check here	ii indicators	s are not	present	Į			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	
	│ A2 - High Wa │ A3 - Saturatio				B13 - Aqu					B10 - Drainage P B16 - Moss Trim	
	A3 - Saturation   B1 - Water M				B15 - Ma C1 - Hydi	•				C2 - Dry-Season	
	B2 - Sedimer	•			C3 - Oxid	dized Rhizo	spheres on Living Roots			C8 - Crayfish Bur	rows
	l B3 - Drift Dep l B4 - Algal Ma						educed Iron eduction in Tilled Soils			C9 - Saturation V D1 - Stunted or S	isible on Aerial Imagery
	B5 - Iron Dep			_	C7 - Thin				<del></del>	D2 - Geomorphic	
		on Visible on Aerial Im	0 ,		Other (Ex	oplain in R	emarks)			D3 - Shallow Aqu	itard
	B8 - Sparsely	Vegetated Concave	Surface							D4 - Microtopogra D5 - FAC-Neutral	
Field Observa	ntions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)						
Water Table P		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	Yes ☑ No
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Recor	ded Data (str	eam gauge, monitor	ing well, aer	ial photos	s previous	s inspecti	ons) if available:		N/A		
			,,	iai prioto	o, provida	o mopecu	orioj, ii avaliabic.		1 4/ / 3		
Remarks:	Statewide o			idi priotot	o, provida	з порсоц	oris), ii avaliabic.		14// (		_
Remarks:	Statewide o			iai priotos	o, provious	3 111300011	ons), ii avallable.		14//		
SOILS			g,	iai priotos	5, provida	Ì	·				
SOILS Map Unit Name	e:	drought  Chesuncook-Elliottsville	e-Telos associa	ation, 3 to	15%	Ì	eries Drainage Class:	: moderately v		I	
SOILS  Map Unit Name Taxonomy (Su	e: bgroup):	drought  Chesuncook-Elliottsville  Coarse-loamy, isot	e-Telos associa	ation, 3 to Juic Hapl	15% lorthods	S	eries Drainage Class	•	well drained		
SOILS  Map Unit Name Taxonomy (Suit Profile Descri	e: bgroup): <b>ption</b> (Describe to	drought  Chesuncook-Elliottsville  Coarse-loamy, isot	e-Telos associa	ation, 3 to Juic Hapl	15% lorthods	S	·	Covered/Coated Sand Gra	well drained		Texture
SOILS  Map Unit Name Taxonomy (Su  Profile Descri	e: bgroup): ption (Describe to Bottom	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the in	e-Telos associa tic, frigid Ac	ation, 3 to Juic Hapl absence of ind Matrix	15% Iorthods icators.) (Type: 0	S	Description, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	well drained	ore Lining, M=Matrix)	Texture (e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Suit Profile Descri	e: bgroup): <b>ption</b> (Describe to	drought  Chesuncook-Elliottsville  Coarse-loamy, isot	e-Telos associa	ation, 3 to Juic Hapl absence of ind Matrix	15% lorthods icators.) (Type: 0	S	eries Drainage Class	Covered/Coated Sand Gra	well drained		(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville Coarse-Ioamy, isot the depth needed to document the in	e-Telos associa tic, frigid Ac ndicator or confirm the Color (I	ation, 3 to Juic Hapl absence of ind Matrix Moist)	15% Iorthods icators.) (Type: 0	C=Concentration	Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Po	cre Lining, M=Matrix)  Location	
SOILS  Map Unit Name Taxonomy (Suit Profile Descritor) Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the in  Horizon	e-Telos associatic, frigid Acondicator or confirm the Color (I	ation, 3 to quic Hapl e absence of ind Matrix Moist) 5/3	15% lorthods icators.) (Type: 0	C=Concentration	Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Po	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-Ioamy, isot the depth needed to document the in  Horizon	e-Telos associatic, frigid Acondicator or confirm the Color (I	eation, 3 to fund Haple absence of ind Matrix Moist) 5/3	15% lorthods icators.) (Type: 0	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Po	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-Ioamy, isot the depth needed to document the ir  Horizon	e-Telos associatic, frigid Acondicator or confirm the Color (I	eation, 3 to quic Haple absence of index Matrix Moist) 5/3	15% Iorthods icators.) (Type: 0	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Pd Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the in  Horizon	e-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3	15%   lorthods	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=COlor (Moist)	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Po	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Taxonomy (Suit Profile Descrited Descrited Depth Oight Descrited Descrited Descrited Depth Oight Descrited	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the in  Horizon	e-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	eation, 3 to fuic Haple absence of ind Matrix Moist)  5/3	15% Iorthods icators.) (Type: 0	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Pd Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the ir  Horizon	c-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	ation, 3 to quic Haple absence of ind Matrix Moist) 5/3	15%   lorthods	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	well drained ains; Location: PL=Pd Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth  0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the in  Horizon	c-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	ation, 3 to quic Haple absence of ind Matrix Moist) 5/3 tors are	15% lorthods icators.) (Type: 0	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  % Indicato	well drained ains; Location: PL=Po Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth  0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isof the depth needed to document the in  Horizon	c-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	ation, 3 to quic Haple absence of ind Matrix Moist) 5/3 tors are	15% lorthods icators.) (Type: C	C=Concentration  ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  % Indicato	well drained  ains; Location: PL=Po  Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth  0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isot the depth needed to document the ir  Horizon	c-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	ation, 3 to quic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 not prese S8 - Poly S9 - Thin F1 - Loan	==Concentration	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  % Indicato	well drained ains; Location: PL=Po  Type	Location  Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Suit Profile Descrited De	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Chesuncook-Elliottsville Coarse-loamy, isof the depth needed to document the in  Horizon  ndicators (check head)	c-Telos associatic, frigid Acondicator or confirm the Color (I 10YR	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: C	==Concentration value Below Dark Surf my Mucky my Gleyed	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  % Indicato	well drained  ains; Location: PL=Po  Type  sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S	Location  Locati	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Suit Profile Descrited De	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isof the depth needed to document the in  Horizon  ndicators (check head)	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 not prese S8 - Poly S9 - Thin F1 - Loan	==Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gra  Mottles  % Indicato	well drained ains; Location: PL=Po  Type  sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval	Location  Location	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R) (LRR K, L)
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth  0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isol the depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 s8 - Poly: S9 - Thin F1 - Loan: F2 - Loan: F3 - Depl F6 - Redo F7 - Depl	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicato	well drained ains; Location: PL=Po  Type sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M	Location  Locati	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth  0	e: bgroup): ption (Describe to Depth 12	Chesuncook-Elliottsville Coarse-loamy, isof the depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: C	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicato	well drained  ains; Location: PL=Po  Type  sfor Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location  Locati	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth  0	e: bgroup): ption (Describe to Bottom Depth 12	Chesuncook-Elliottsville Coarse-loamy, isoft the depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 s8 - Poly: S9 - Thin F1 - Loan: F2 - Loan: F3 - Depl F6 - Redo F7 - Depl	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicato	well drained  ains; Location: PL=Po  Type  sfor Proble  A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic	Location  Locati	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0	e: bgroup): ption (Describe to Depth 12	Chesuncook-Elliottsville Coarse-loamy, isof the depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 s8 - Poly: S9 - Thin F1 - Loan: F2 - Loan: F3 - Depl F6 - Redo F7 - Depl	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicato	well drained  ains; Location: PL=Po  Type  sfor Proble  A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very	Location  Locati	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth  0	e: bgroup): ption (Describe to Depth 12	Chesuncook-Elliottsville Coarse-loamy, isolothe depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 s8 - Poly: S9 - Thin F1 - Loan: F2 - Loan: F3 - Depl F6 - Redo F7 - Depl	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	well drained  ains; Location: PL=Po  Type  sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location  Locati	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth  0	e: bgroup): ption (Describe to Depth 12	Chesuncook-Elliottsville Coarse-loamy, isoft the depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 s8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	well drained  ains; Location: PL=Po  Type  sfor Proble  A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla of hydrophytic veget or problematic.	Location  Locati	(e.g. clay, sand, loam) fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth  0	e: bgroup): ption (Describe to Depth 12	Chesuncook-Elliottsville Coarse-loamy, isoft the depth needed to document the in  Horizon	e-Telos associatic, frigid Adordicator or confirm the Color (I 10YR ere if indica	ation, 3 to puic Haple absence of ind Matrix Moist)  5/3  tors are	15% lorthods icators.) (Type: 0  % 100 s8 - Poly: S9 - Thin F1 - Loan: F2 - Loan: F3 - Depl F6 - Redo F7 - Depl	=Concentration	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicato	well drained  ains; Location: PL=Po  Type  sfor Proble  A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla of hydrophytic veget or problematic.	Location  Locati	(e.g. clay, sand, loam) fine sandy loam

## 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	e species	.)		
Tree Stratum (Pl	ot size: 10 meter radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Betula lenta	75	Υ	FACU	
2.	Acer rubrum	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.	Fraxinus nigra	5	N	FACW	
4.					Total Number of Dominant Species Across All Strata:4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	100			FACW spp. 5 x 2 = 10
					FAC spp. 35 x 3 = 105
Sapling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. 130 x 4 = 520
1.	Acer pensylvanicum	5	N	FACU	UPL spp. $0   x   5 = 0$
2.	Betula lenta	20	Υ	FACU	
3.	Acer rubrum	10	N	FAC	Total 170 (A) 635 (B)
4.					(2)
5.					Prevalence Index = B/A = 3.735
6.					Trevalence index 2/70
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.	<del></del>				
10.	Total Cover =	35			
	Total Cover –	33			Yes ☑ No Prevalence Index is ≤ 3.0 * No □
	1				☐ Yes ☑ No Morphological Adaptations (Explain) *
•	ot size: 2 meter radius)		N.I.	EACH	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Medeola virginiana	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be
2.	Polystichum acrostichoides	20	Y	FACU	present, unless disturbed or problematic.
3.	Phegopteris hexagonoptera	5	N	FACU	Definitions of Venetation Ctuate:
4.	Athyrium angustum	5	N	FAC	Definitions of Vegetation Strata:
5.	<del></del>				<b>T</b>
6	<del></del>				<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	<b></b>				Height (DBH), regardless of height.
8.					O II (OI I Was du plants lass than 2 in DDII and spectanth on 2 20 ft
9.	<del></del>				<b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					
11.					All bank assess (non-seach) plants, providing a finite and
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.	<del></del>				
14.	<del></del>				
15.	<b></b>				Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	35			
Woody Vine Strat	um (Plot size: 10 meter radius)				
1.					
2.					
3.					<b>Hydrophytic Vegetation Present</b> — Yes — No
4.					
5.					
	Total Cover =	0			
Remarks:					
Additional Re	marks:				



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	·				·			County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		Elliottsville-Telos associat	tion, 3 to 15%				VI/WWI Classification:	PFO		Wetland ID:	W47EI
Landform:	Terrace				cal Relief:			5.	NIA D 00	Sample Point:	Wetland
Slope (%):	See topo map		45.140674		ongitude:				NAD 83	-	
		ditions on the site ty				no, explain			No t2	-	
•		or Hydrology □ sig or Hydrology □ nat	_				Are normal circumsta ☐ Yes	ances presen ☑No	l!		
SUMMARY OF		or riyurology 🗆 hat	urally prob	iemalic :			<u> </u>				
Hydrophytic Ve		sent?		✓ Yes	s □ No	)		Hydric Soils	Present?		
Wetland Hydro				☑ Yes						Within A Wetlaı	
Remarks:	Statewide o										
HYDROLOGY Wetlered Hydr		etava (Chaali bara i	findicators	ore net	procent	<u> </u>					
Primary	• •	ators (Check here i	rindicators	are not	present				Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
<u> </u>	A2 - High Wa				B13 - Aqu					B10 - Drainage F	
	A3 - Saturation				B15 - Ma C1 - Hydr	•			_	B16 - Moss Trim C2 - Dry-Season	
	B2 - Sedimer				-	_	ospheres on Living Roots			C8 - Crayfish Bu	
<u> </u>	B3 - Drift Dep						educed Iron				isible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep			_	C6 - Rece C7 - Thin		eduction in Tilled Soils			D1 - Stunted or S D2 - Geomorphic	
	•	on Visible on Aerial Ima	agery		Other (Ex					D3 - Shallow Aqu	
		Vegetated Concave S			•		,			D4 - Microtopogr	-
									Ш	D5 - FAC-Neutra	l Test ————————————————————————————————————
Field Observa		_			<i>(</i> , )						
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pi	resent?	Yes □ No
Water Table Pres		☐ Yes  ☑ No ☐ Yes  ☑ No	Depth: Depth:		(in.)						
			•		(in.)	. ,,			N1/A		
	·	eam gauge, monitorii	ng well, aer	ai pnotos	s, previous	s inspecti	ons), if available:		N/A		
Remarks:	Statewide of	arougnt									
SOILS											
Map Unit Name	ο.	Chesuncook-Elliottsville-	Telos associa	ation 3 to 1	15%	9	Series Drainage Class:	moderately v	vell drained	1	
Taxonomy (Sul		Coarse-loamy, isoti					beries Brainage Glass.	moderatery v	von dramec	4	
	<u> </u>			•		C=Concentration,	, D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix				Mottles			Texture
Depth	Depth	Horizon	Color (I	Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
0	14		10YR	4/1	80	10YR	2/1	10			fine sandy loam
						10YR	5/6	10	С	M	fine sandy loam
NRCS Hydric		ndicators (check he								ematic Soils <sup>1</sup>	
_	A1- Histosol	idicators (check he	i e ii iiiuica		-	•	w Surface (LRR R, MLRA 149B)	_		Muck (LRR K, L, MLRA	149B)
	l A2 - Histic Ep	•			,		ace (LRR R, MLRA 149B)			t Prairie Redox (LRI	,
	A3 - Black Hi						Mineral (LRR K, L)			ucky Peat of Peat	(LRR K, L, R)
	l  A4 - Hydroge l  A5 - Stratified					ny Gleyed leted Matri				urface (LRR K, L, M) lue Below Surface	(LRR K. L.)
		ed Below Dark Surface				ox Dark Su			•	ark Surface (LRR к,	
	A12 - Thick D	Dark Surface			•	leted Dark			F12 - Iron-N	/langanese Masse	S (LRR K, L, R)
	│ S1 - Sandy M │ S4 - Sandy G				F8 - Redo	ox Depres	sions			nont Floodplain So	
	S4 - Sandy G	•								Spodic (MLRA 144A, Parent Material	140, 149B)
1 =	33 - Sanuv R									Shallow Dark Sur	face
	l  S5 - Sandy R l  S6 - Stripped										1400
	S6 - Stripped	Matrix rface (LRR R, MLRA 149B)								ain in Remarks)	
	S6 - Stripped							<sup>1</sup> Indicators		ain in Remarks) tation and wetland hydrology	
Restrictive Layer	S6 - Stripped S7 - Dark Su			Depth:	14			<sup>1</sup> Indicators	of hydrophytic veget or problematic.		
Restrictive Layer (If Observed) Remarks:	S6 - Stripped S7 - Dark Su	rface (LRR R, MLRA 149B)		Depth:	14			<sup>1</sup> Indicators of disturbed of	of hydrophytic veget or problematic.	tation and wetland hydrology	must be present, unless

## 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	e species	.)		
	ot size: 10 meter radius)				
	Species Name		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Larix laricina	30	Y	FACW	
2.	Acer rubrum	50	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.	Fraxinus nigra	20	N	FACW	Title (D. Smart Organica Almona All Otrata) (D)
4.					Total Number of Dominant Species Across All Strata:4(B)
5.					D ( CD
6.	<b></b>				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7. 8.	_ <del></del>	<b></b>	<b></b>		Prevalence Index Worksheet
9.	<b></b>				
9. 10.	<b></b>	<del></del>			<del></del>
10.	Total Cover =	100			· · ·
	I Ulai Ouvei –	100			FACW spp. 70
Sanling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. $\frac{65}{0}$ $\times 3 = \frac{195}{0}$
1.	Picea mariana	5	N	FACW	UPL spp. $30$ $x = 5$ $x = 5$
2.	Acer rubrum	5	N	FAC	Si E Spp X S
3.	Fraxinus nigra	5	N	FACW	Total 215 (A) 535 (B)
4.					(-)
5.					Prevalence Index = B/A = <b>2.488</b>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cover =	15			☑ Yes ☐ No Prevalence Index is ≤ 3.0 *
ı					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	ot size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Onoclea sensibilis	10	N	FACW	
2.	Parathelypteris noveboracensis	10	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Calamagrostis canadensis	50	Υ	OBL	present, unless disturbed or problematic.
4.	Fragaria vesca	30	Υ	UPL	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					l
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					l
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					woody plants less than 5.20 ft. tail.
14.					l
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
 	Total Cover =	100			
Woody Vine Stratı	um (Plot size: 10 meter radius)				
1.					
2.	<del></del>				
3.	<del></del>				<b>Hydrophytic Vegetation Present</b> ☑ Yes ☐ No
4.	<del></del>				
5.	<del></del>				
<del></del>	Total Cover =	0			
Remarks:					
Additional Ren	narks:				
1					



Applicant   Western Name Removable, 1   Country   Services   Ser	Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Solid   Companies   Control   Cont	1		ne Renewables, LLC								1	
Landfare   Server   Landfare   Server   Landfare   Selection   Landfare   Selection   Landfare   Selection   Landfare   Selection   Sele		-				igator #2:		///////// OI 'C' ('				
Stope (%)   See recoming   Latitude   Sci - 19627   Longitude   -00 states   -00			Elliottsville-Telos associat	ion, 3 to 15%		al Daliafu		VI/WWI Classification:	: Upland			
Accordance of the site of year?			Latitudo:	45 140627				460	Datum:	NVD 83	Sample Point:	Upland
Ale Norpitation   Soil   On Hydrology   Industry disturbed   Ale Norpitation   Soil   On Hydrology   Industry disturbed   Soil   On Hydrology   Industry   Industry   Soil   On Hydrology   Industry											1	
According   Solid   On Hydrology   Endurally problemails   Solid   S	-		•				Tio, explain	•			1	
SUMMARY OF FINDINGS	•			-					•	•		
Mydric Colis Present?			or right oragy in that	arany prop	· orrication							
Metand Hydrology Indicators (Check here if indicators are not present   Statewide drought   Statewide dr			sent?		☐ Yes	s ☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Workloop indicators (Check here if indicators are not present: 72    All - Surface Water   B9 - Water-Staned Leaves   B6 - Surface Soil Cracks   B7 - August Planus   B10 - Drainage Patients   B10 - Dr	•	•									Within A Wetlar	nd? 🗆 Yes 🗹 No
Material Hydrology Indicators (Check here if Indicators are not present	Remarks:	Statewide o	drought									
Material Hydrology Indicators (Check here if Indicators are not present	HYDDOLOGY											
A   Surface   B   Surface   B		rology Indio	otoro (Chaok hara i	findicators	oro not	procent	<b>—</b>					
A1 - Surface Water	•		ators (Check here i	rindicators	are not	present	ĬΥ			Secondary:		
A3 - Saturation			Water			B9 - Wate	er-Stained	Leaves				Cracks
B1 - Water Marks	<u> </u>	_										
B2 - Sediment Deposits							•					
B4 - Agal Natior Crust						-	-				•	
B5 - Innot Deposits   B7 - Inundation Visible on Aerial Imagery   B8 - Sparsety Vegetated Concave Surface   B9 - Sparsety Vegetated Concave Surface   B9 - Sparsety Vegetated Concave Surface Sur	<u> </u>				_							
B7 - Inundation Visible on Aerial Imagery   Other (Explain in Remarks)   D3 - Shallow Aquitard   D5 - FAC-Neutral Test					_							
B8 - Sparsely Vegetated Concave Surface				igery								
Field Observations:   Surface Water Present?     Yes     No   Depth: (in.)								·				-
Surface Water Present?   Yes   No Depth: (in.) Depth: Depth: (in.) Dep		4.								Ц	D5 - FAC-Neutra	I l'est
Water Table Present?						<i>(</i> ; )						
Saturation Present?			<del>_</del>	-		1 1			Wetland Hy	drology Pr	resent? □	l Yes ☑ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A   Note				•		1 1						
Remarks:   Statewide drought   SOILS				•			- !4!	ana) if and italian		NI/A		
Map Unit Name   Chesuncook-Elliotsville-Telos association, 3 to 15%   Series Drainage Class: moderately well drained		•		ng well, aeri	iai priotos	s, previous	s inspecu	ons), ii avaliable:		IN/A		
Map Unit Name:	Remarks.	Statewide	arougni									
Map Unit Name:	SOIL S											
Taxonomy (Subgroup):   Coarse-loamy, isotic, frigid Aquic Haplorthods   Profile Description (Search to be re-depined to scenare) in election of scenare) in electron of scen		e:	Chesuncook-Elliottsville-	Telos associa	ation, 3 to	15%	S	Series Drainage Class:	: moderately v	vell drained	ł	
Top   Depth   Depth   Horizon   Color (Moist)   %   Type   Location   (e.g. clay, sand, loam)									,		-	
Depth   Depth   Horizon   Color (Moist)   %   Color (Moist)   %   Type   Location   (e.g. clay, Sand, Ioam)	Profile Descrip	ption (Describe to	the depth needed to document the inc	licator or confirm the	absence of ind	icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	
0 12 10YR 5/3 100 fine sandy loam	Тор	Bottom			Matrix	_			Mottles	_		Texture
NRCS Hydric Soil Field Indicators (check here if indicators are not present □:    A1 - Histosol	Depth	Depth	Horizon	Color (I	Moist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam)
NRCS Hydric Soil Field Indicators (check here if indicators are not present   C ;	0	12		10YR	5/3	100						fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present   C;   Indicators for Problematic Soils   A1 - Histosol   S8 - Polyvalue Below Surface (LRR R, MLRA 1498)   A2 - Histic Epipedon   S9 - Thin Dark Surface (LRR R, MLRA 1498)   A4 - Hydrogen Sulfide   F1 - Loarny Mucky Mineral (LRR K, L)   S3 - Serm Mucky Peat of Peat (LRR K, L, R)   S1 - Sandy Muck Mineral   F7 - Depleted Dark Surface   F7 - Depleted Dark Surface (LRR R, MLRA 1498)   S4 - Sandy Gleyed Matrix   S7 - Dark Surface (LRR R, MLRA 1498)   S7 - Dark Surface (LRR R, MLRA 1498)   T7 - Incident S												
NRCS Hydric Soil Field Indicators (check here if indicators are not present   \begin{array}{c c c c c c c c c c c c c c c c c c c												
NRCS Hydric Soil Field Indicators (check here if indicators are not present												
NRCS Hydric Soil Field Indicators (check here if indicators are not present												
NRCS Hydric Soil Field Indicators (check here if indicators are not present												
A1- Histosol   S8 - Polyvalue Below Surface (LRR R, MLRA 149B)   A10 - 2 cm Muck (LRR K, L, MLRA 149B)   A2 - Histic Epipedon   S9 - Thin Dark Surface (LRR R, MLRA 149B)   A16 - Coast Prairie Redox (LRR K, L, R)   S3 - Storm Mucky Peat of Peat (LRR K, L, R)   S3 - Storm Mucky Peat of Peat (LRR K, L, R)   S3 - Storm Mucky Peat of Peat (LRR K, L, R)   S7 - Dark Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L)   S9 - Thin Dark Surface (LRR K, L)   S9 - Thin Dar												
A1- Histosol   S8 - Polyvalue Below Surface (LRR R, MLRA 149B)   A10 - 2 cm Muck (LRR K, L, MLRA 149B)   A2 - Histic Epipedon   S9 - Thin Dark Surface (LRR R, MLRA 149B)   A16 - Coast Prairie Redox (LRR K, L, R)   S3 - Storm Mucky Peat of Peat (LRR K, L, R)   S3 - Storm Mucky Peat of Peat (LRR K, L, R)   S3 - Storm Mucky Peat of Peat (LRR K, L, R)   S7 - Dark Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L, M)   S8 - Polyvalue Below Surface (LRR K, L)   S9 - Thin Dark Surface (LRR K, L)   S9 - Thin Dar	NRCS Hydric	Soil Field Ir	ndicators (check he	re if indica	tors are	not prese	ent ⑦:	<u> </u>	Indicator	s for Proble	matic Soils <sup>1</sup>	
A3 - Black Histic   F1 - Loamy Mucky Mineral (LRR K, L)   S3 - 5cm Mucky Peat of Peat (LRR K, L, R)   A4 - Hydrogen Sulfide   F2 - Loamy Gleyed Matrix   S7 - Dark Surface (LRR K, L, M)   A5 - Stratified Layers   F3 - Depleted Matrix   S8 - Polyvalue Below Surface (LRR K, L)   S8 - Polyvalue Below Surface (LRR K, L)   S9 - Thin Dark Surface (LRR K, L	_		idiodioio (onook no	no ii iiiaica			,					149B)
A4 - Hydrogen Sulfide   F2 - Loamy Gleyed Matrix   S7 - Dark Surface (LRR K, L, M)     A5 - Stratified Layers   F3 - Depleted Matrix   S8 - Polyvalue Below Surface (LRR K, L)     A11 - Depleted Below Dark Surface   F6 - Redox Dark Surface   S9 - Thin Dark Surface (LRR K, L)     A12 - Thick Dark Surface   F7 - Depleted Dark Surface   F12 - Iron-Manganese Masses (LRR K, L, R)     S1 - Sandy Muck Mineral   F8 - Redox Depressions   F19 - Piedmont Floodplain Soils (MLRA 149B)     S4 - Sandy Gleyed Matrix   TA6 - Mesic Spodic (MLRA 144A, 145, 149B)     S5 - Sandy Redox   TF2 - Red Parent Material     S6 - Stripped Matrix   TF12 - Very Shallow Dark Surface     S7 - Dark Surface (LRR R, MLRA 149B)     Type: NR			•					,			,	· · · /
A5 - Stratified Layers   F3 - Depleted Matrix   S8 - Polyvalue Below Surface (LRR K, L)   A11 - Depleted Below Dark Surface   F6 - Redox Dark Surface   S9 - Thin Dark Surface (LRR K, L)   F12 - Iron-Manganese Masses (LRR K, L)   F12 - Iron-Manganese Masses (LRR K, L)   F13 - Piedmont Floodplain Soils (MLRA 149B)   F14 - Piedmont Floodplain Soils (MLRA 149B)   F15 - Piedmont Floodplain Soils (MLRA 149B)   F16 - Mesic Spodic (MLRA 144A, 145, 149B)   F17 - Piedmont Floodplain Soils (MLRA 149B)   F17 - Piedmont Floodplain So	I H				_							(LRR K, L, R)
A11 - Depleted Below Dark Surface   F6 - Redox Dark Surface   S9 - Thin Dark Surface (LRR K, L)   F7 - Depleted Dark Surface   F12 - Iron-Manganese Masses (LRR K, L, R)   F19 - Piedmont Floodplain Soils (MLRA 149B)   F8 - Redox Depressions   F19 - Piedmont Floodplain Soils (MLRA 149B)   F8 - Redox Depressions   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)   Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.    Restrictive Layer (If Observed)   Type: NR   Depth: 12   Hydric Soil Present?   Yes  No												(LRR K, L)
S1 - Sandy Muck Mineral		A11 - Deplete	ed Below Dark Surface			F6 - Redo	ox Dark Su	urface		S9 - Thin Da	ark Surface (LRR к,	L)
S4 - Sandy Gleyed Matrix S5 - Sandy Redox TF2 - Red Parent Material TF12 - Very Shallow Dark Surface TF12 - Very Shallow Dark Surfac						•					•	
S5 - Sandy Redox S6 - Stripped Matrix S7 - Dark Surface (LRR R, MLRA 149B)  Restrictive Layer (If Observed)  Type: NR  TF2 - Red Parent Material TF12 - Very Shallow Dark Surface TF12 - Very Shallow		•			Ц	ro - Kedo	ox Depres	510115			•	
S6 - Stripped Matrix S7 - Dark Surface (LRR R, MLRA 149B)  Restrictive Layer (If Observed)  Type: NR  Depth: 12  TF12 - Very Shallow Dark Surface Check Current Surface Check Ch		•	-								•	,
Restrictive Layer (If Observed)  Type: NR  Depth: 12  Hydric Soil Present?  Type: NR  Depth: 12  Restrictive Layer (If Observed)	_	• • •								-		face
Restrictive Layer (If Observed)  Type: NR  Depth: 12  Hydric Soil Present?  Type: NR  Depth: 12	"	S7 - Dark Su	ITACE (LRR R, MLRA 149B)								•	/ must be present, unless
(If Observed) Type: NR Depth: 12 Hydric Soil Present?	Do-Autotion 1											
Remarks:	_	Type:	NR		Depth:	12			<b>Hydric Soil</b>	Present?		Yes ☑ No

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W48EI Sample Point Upland

<b>VEGETATION</b>	(Species identified in all uppercase are non-native	e species.)			
Tree Stratum (Plo	ot size: 10 meter radius)				
	<u>Species Name</u>		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Betula lenta	75	Y	FACU	
2.	Acer rubrum	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.	Fraxinus nigra	5	N	FACW	
4.					Total Number of Dominant Species Across All Strata:4(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>25.0%</b> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0 x 1 = 0
	Total Cover =	100			FACW spp 5 x 2 = 10
					FAC spp 35 x 3 = 105
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp 130
1.	Acer pensylvanicum	5	N	FACU	UPL spp 0 x 5 = 0
2.	Betula lenta	20	Υ	FACU	
3.	Acer rubrum	10	Ν	FAC	Total(A)(B)
4.					
5.					Prevalence Index = B/A = 3.735
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cover =	35			Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Medeola virginiana	5	N	FACU	
2.	Polystichum acrostichoides	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Phegopteris hexagonoptera	5	N	FACU	present, unless disturbed or problematic.
4.	Athyrium angustum	5	N	FAC	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	35			
Woody Vine Strate	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present   Yes   No
4.					
5.					
	Total Cover =	0			
Remarks:					
Additional Re	marks:				



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	<b>,</b>				,			County:	Somerset
Investigator #		, — -		Investi	igator #2:					State:	ME
Soil Unit:		Elliottsville-Telos associa	tion 3 to 15%		9-11-1 //		/I/WWI Classification:	· PFO		Wetland ID:	W48EI
Landform:	Terrace		11011, 0 10 10 70		al Relief:		in vivi Glacomoadoni			Sample Point:	Wetland
Slope (%):	See topo map	Latituda:	45.140674		ongitude:		28	Datum	: NAD 83	Campic i oint.	vvctiana
• • • •		ditions on the site ty							No	1	
						Tio, explain i	Are normal circumst			-	
_	•	or Hydrology ☐ sig	,				☐ Yes	.ances preser ☑No	it :		
		or Hydrology □ nat	urally prob	iemalic?			□ 163	E NO			
SUMMARY O		10		— \/					D 10		
Hydrophytic V	•			☑ Yes				Hydric Soils			☑ Yes □ No
Wetland Hydro				✓ Yes	□ No			Is This Sam	pling Point	Within A Wetla	nd? 🗹 Yes 🗆 No
Remarks:	Statewide of	drought									
HYDROLOGY	,										
Wetland Hyd	Irology Indic	ators (Check here i	f indicators	are not	present						
Primar		( )				<b>,</b>			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	A2 - High Wa				B13 - Aqı					B10 - Drainage F	
	A3 - Saturation				B15 - Mai					B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
	B2 - Sedimei B3 - Drift De	•					espheres on Living Roots educed Iron			C8 - Crayfish Bu	rrows /isible on Aerial Imagery
	B4 - Algal Ma	•					eduction in Tilled Soils			D1 - Stunted or S	0 )
1	B5 - Iron Dep			H	C7 - Thin				<del>-</del>	D2 - Geomorphic	
		on Visible on Aerial Ima	agery	_	Other (Ex					D3 - Shallow Aqu	
	B8 - Sparsely	y Vegetated Concave S	Surface		,		,			D4 - Microtopogr	aphic Relief
										D5 - FAC-Neutra	l Test
Field Observa	ations:										
Surface Wate	r Present?	☐ Yes ☑ No	Depth:		(in.)			VA/a4lasad IIIs			1 V 🗖 N-
Water Table F	Present?	□ Yes ☑ No	Depth:		(in.)			Wetland Hy	arology Pr	resent?	l Yes □ No
Saturation Pre		☐ Yes ☑ No	Depth:		(in.)						
Deceribe Decer	rded Deta Jets					a inanasti	ana\ if available.		N/A		
Describe Reco	rded Data (Str	eam gauge, monitorii	ng well, aen	ai priotos	s, previous	s inspecii	ons), ii avallable:		IN/A		
	$\circ$	1 14									
Remarks:	Statewide of	drought				<u></u>					
	Statewide o	drought									
SOILS		drought									
SOILS Map Unit Nam	ne:	Chesuncook-Elliottsville-		-		S	eries Drainage Class:	: moderately	well drained	I	
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Chesuncook-Elliottsville-Coarse-loamy, isoti	c, frigid Aq	uic Hapl	orthods		•	•			
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Chesuncook-Elliottsville-Coarse-loamy, isoti	c, frigid Aq	uic Hapl	orthods		eries Drainage Class.  D=Depletion, RM=Reduced Matrix, CS=	•			
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Chesuncook-Elliottsville-Coarse-loamy, isoti	c, frigid Aq	uic Hapl	orthods		•	•			Texture
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup): <b>iption</b> (Describe to	Chesuncook-Elliottsville-Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of indi Matrix	orthods		•	Covered/Coated Sand Gra			<del>_</del> .
SOILS  Map Unit Nam Taxonomy (Su  Profile Descr Top	ne: ubgroup): <b>iption</b> (Describe to Bottom	Chesuncook-Elliottsville-Coarse-loamy, isoti	c, frigid Aq	uic Hapl absence of indi Matrix	orthods cators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	ore Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth	Chesuncook-Elliottsville-Coarse-loamy, isoti	c, frigid Aq dicator or confirm the Color (I	uic Hapl absence of indi Matrix Moist)	orthods cators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1	Covered/Coated Sand Gra  Mottles  % 10	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10	Type C	Location M	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10	Type C	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10	Type C	Location M	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR 	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10	Type C	Location M	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	10YR 10YR   	Color (Moist)  2/1  5/6	Mottles % 10 10	Type  C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14 C Soil Field In	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods cators.) (Type: C	10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type  C	Location   M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods  cators.) (Type: Colored Solutions)	10YR 10YR 10YR ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type C s for Proble	Location  Location  M        matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6      w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type C sfor Proble A10 - 2 cm A16 - Coast	Location  Location  M       matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods cators.) (Type: Comparison of Compar	10YR 10YR 10YR ent	Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type  C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M	Location  Location  M      matic Soils <sup>1</sup> Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E  A3 - Black Hi A4 - Hydroge	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon  ndicators (check he	c, frigid Aq dicator or confirm the	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods  cators.) (Type: Comparison of Compa	10YR 10YR 10YR value Belo Dark Surfany Mucky Iny Gleyed	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S	Location  Location  M         matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LRR k, L, MLRA tucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 14	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc  Horizon  ndicators (check he pipedon istic en Sulfide d Layers	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type  C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval	Location  Location  M     matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne:  ubgroup):  iption (Describe to Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the incomplete the depth needed to document the depth needed to document the incomplete the depth needed to document the depth needed to document the document the depth needed to document the document the incomplete the document the doc	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods cators.) (Type: Comparison of Compar	10YR 10YR 10YR value Belo Dark Surfany Mucky Iny Gleyed eted Matrix ox Dark Su	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da	Location  Location  M       matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M)  lue Below Surface ark Surface (LRR K, K)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L) L)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 14	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type  C	Location  Location  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Masse	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) E (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist) 4/1 tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR value Belo Dark Surfany Mucky Iny Gleyed eted Matrix ox Dark Su	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type  C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location  Location  M     matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Massemont Floodplain So	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic	Location  Location  M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) anganese Masse	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the depth needed to document the incomplete the incomplete the incomplete the depth needed to document the incomplete the in	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 10 10 Indicato	Type C	Location  Location  M   M      matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LRR K, L, M)  Jucky Peat of Peat urface (LRR K, L, M)  Jue Below Surface ark Surface (LRR K, L)  Jue Below Surface (LRR K, L)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 14	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 10 10 Indicato	Type  C	Location  Location  M  Location  M  Location  Location  In M  In I	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the depth needed to document the incomplete the incomplete the incomplete the depth needed to document the incomplete the in	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 10 10 Indicato	Type  C	Location  Location  M   M      matic Soils  Muck (LRR K, L, MLRA to Prairie Redox (LRR K, L, M)  Jucky Peat of Peat urface (LRR K, L, M)  Jue Below Surface ark Surface (LRR K, L)  Jue Below Surface (LRR K, L)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 RRCS Hydric	iption (Describe to Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc  Horizon	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Colored Color	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 10 10 Indicato	Type  C	Location  Location  M   M      matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LR urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, M) lue Below Surface (LRR K,	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) sils (MLRA 149B) 145, 149B) rface y must be present, unless
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0	iption (Describe to Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the depth needed to document the incomplete the incomplete the incomplete the depth needed to document the incomplete the in	c, frigid Aq dicator or confirm the Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Moist)  4/1      tors are	orthods  cators.) (Type: Comparison of the compa	10YR 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  2/1  5/6     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 10 10 Indicato	Type  C	Location  Location  M  Location  M  Location  Location  In M  In I	(e.g. clay, sand, loam) fine sandy loam fine sandy loam

## 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	e species.	)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	<u>Species Name</u>		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Larix laricina	30	Υ	FACW	
2.	Acer rubrum	50	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.	Fraxinus nigra	20	Ν	FACW	
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 50 $\times 1 = 50$
	Total Cover =	100			FACW spp. 70 x 2 = 140
	1000	100			FAC spp. 65
Sanling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp 0 x 4 = 0
1.	Picea mariana	5	N	FACW	UPL spp. $30   x   5 = 150$
2.	Acer rubrum	5	N	FAC	Of 2 opp X O
3.	Fraxinus nigra	5	N	FACW	Total 215 (A) 535 (B)
3. 4.	<u> </u>				Total <u>215</u> (A) <u>535</u> (B)
 5.	_ <del></del>	<b></b>			Prevalence Index = B/A = <b>2.488</b>
 6.	<del></del>				Prevalence index – B/A – <b>2.466</b>
	_ <del></del>				
7.	_ <del></del>				Urdranbutia Vagatatian Indiaatara
8.	<b></b>				Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					
	Total Cover =	15			Yes       No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
,	t size: 2 meter radius)			= 4 0 14 4	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Onoclea sensibilis	10	N	FACW	* Indicators of hydric soil and wetland hydrology must be
2.	Parathelypteris noveboracensis	10	N	FAC	present, unless disturbed or problematic.
3.	Calamagrostis canadensis	50	Υ	OBL	
4.	Fragaria vesca	30	Υ	UPL	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	100			
Woody Vine Strate	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					, , , , , , , , , , , , , , , , , , ,
5.					
<u> </u>	Total Cover =	0			
Remarks:	. 5.3. 55751	<u> </u>			
Additional Rer	marke:				
Additional Rel	iiui N3.				



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	•				•			County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:	•	tsville-Telos association, 3 to 1	percent slopes,				/I/WWI Classification	: Upland		Wetland ID:	W51EI
Landform:	Terrace				cal Relief:			•		Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.138110	L	ongitude:	-69.8735	39	Datum	: NAD 83		•
• • • • • • • • • • • • • • • • • • • •		ditions on the site ty							] No	1	
		or Hydrology □ sig					Are normal circumst		nt?	1	
_		or Hydrology □ nat	•				□ Yes	☑ No ˙			
SUMMARY OF											
Hydrophytic Ve		sent?		☐ Yes	s ☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydro	•			☐ Yes						Within A Wetla	
Remarks:	Statewide o				<u> </u>			13 THIS CAIT	ping rome	vvitimi / v v ctta	iid:
rtemarks.	Otate wide t	arougnt									
HVDDOL OCV											
HYDROLOGY											
		<b>ators</b> (Check here i	f indicators	are not	present	〕					
<u>Primary</u>					50 14/ /	0			Secondary:		
l	A1 - Surface				B9 - Wate				_	B6 - Surface Soi	
l H	A2 - High Wa A3 - Saturation				B13 - Aqเ B15 - Mar					B10 - Drainage F B16 - Moss Trim	
l	B1 - Water M				C1 - Hydr					C2 - Dry-Season	
	B2 - Sedimer				-	_	spheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift Dep						educed Iron				/isible on Aerial Imagery
	B4 - Algal Ma						eduction in Tilled Soils			D1 - Stunted or S	
l	B5 - Iron Dep	oosits on Visible on Aerial Ima	agory.	_	C7 - Thin					D2 - Geomorphic D3 - Shallow Aqu	
I		Vegetated Concave S	•	ㅂ	Other (Ex	piairi iri re	emarks)			D4 - Microtopogr	
	20 opa.00.,	, regetated contents c								D5 - FAC-Neutra	
Field Observa	tions:										
Surface Water		□Vaa □ Na	Donth		(in )						
		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	] Yes ☑ No
Water Table P		☐ Yes ☑ No	Depth:		(in.)						
Saturation Pre	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Recor	ded Data (str	eam gauge, monitorii	ng well, aeri	al photos	s, previous	s inspecti	ons), if available:		N/A		
Damanlan	01 1 11										
Remarks:	Statewide o	drought									
Remarks:	Statewide	drought									
SOILS	Statewide o	drought									
SOILS			association, 3 to 1	5 percent slc	opes, very stony	, S	eries Drainage Class	: Somewhat p	poorly draine	ed	
SOILS Map Unit Nam	e:	Chesuncook-Elliottsville-Telos					eries Drainage Class	։ Somewhat բ	poorly draine	ed	
SOILS  Map Unit Nam Taxonomy (Su	e: bgroup):	Chesuncook-Elliottsville-Telos a	, shallow A	quic Ha	plorthods			•	•		
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e: bgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsville-Telos a	, shallow A	absence of ind	plorthods		eries Drainage Class  D=Depletion, RM=Reduced Matrix, CS=6	Covered/Coated Sand Gr	•		Texture
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri Top	e: bgroup): <b>ption</b> (Describe to Bottom	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc	, shallow A	aquic Ha absence of ind Matrix	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr	rains; Location: PL=Pc	ore Lining, M=Matrix)	<b>-</b>
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e: bgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsville-Telos a	, shallow A licator or confirm the Color (I	quic Ha absence of ind Matrix Moist)	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=COLOR (Moist)	Covered/Coated Sand Gr  Mottles  %	•		(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri	e: bgroup): ption (Describe to Bottom Depth 1	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the ind  Horizon	, shallow A licator or confirm the Color (I 2.5YR	absence of ind Matrix Moist) 3/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 2	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc	, shallow A licator or confirm the Color (I 2.5YR 7.5YR	absence of ind Matrix Moist) 3/1 7/1	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=COLOR (Moist)	Covered/Coated Sand Gr  Mottles  %	rains; Location: PL=Pc	ore Lining, M=Matrix)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	e: bgroup): ption (Describe to Bottom Depth 1	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the ind  Horizon	, shallow A licator or confirm the Color (I 2.5YR	absence of ind Matrix Moist) 3/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 2	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the ind  Horizon	, shallow A licator or confirm the Color (I 2.5YR 7.5YR	absence of ind Matrix Moist) 3/1 7/1	plorthods icators.) (Type: C	e=Concentration,	D=Depletion, RM=Reduced Matrix, CS=6  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the ind  Horizon	, shallow A licator or confirm the Color (I 2.5YR 7.5YR	Aquic Ha absence of ind Matrix Moist) 3/1 7/1 4/3	plorthods icators.) (Type: C	e=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the ind  Horizon   E	, shallow A licator or confirm the Color (I 2.5YR 7.5YR 7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3	plorthods icators.) (Type: C	e=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E	, shallow A licator or confirm the Color (N 2.5YR 7.5YR 7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3	plorthods icators.) (Type: C	e=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1	e: bgroup): ption (Describe to Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E	, shallow A licator or confirm the Color (N 2.5YR 7.5YR 7.5YR	Matrix Moist) 3/1 7/1 4/3	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1 2	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E	, shallow A licator or confirm the  Color (I  2.5YR  7.5YR  7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E	, shallow A licator or confirm the  Color (I  2.5YR  7.5YR  7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	==Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E	, shallow A licator or confirm the  Color (I  2.5YR  7.5YR  7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,  ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E        ndicators (check he	, shallow A licator or confirm the  Color (I  2.5YR  7.5YR  7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration, ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E      ndicators (check he	, shallow A licator or confirm the  Color (I  2.5YR  7.5YR  7.5YR	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	==Concentration, value Belo Dark Surf ny Mucky	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location Loc	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon  E  ndicators (check he cipedon istic en Sulfide d Layers	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,  ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E        ndicators (check he poipedon istic en Sulfide d Layers ed Below Dark Surface	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon  E  ndicators (check he cipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	Aquic Ha absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location Loc	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E         ndicators (check he bipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Depth	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E         ndicators (check he cipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	Aquic Ha absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E         ndicators (check he bipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox Matrix	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	Aquic Ha absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E        ndicators (check he coipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	Aquic Ha absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth 0 1 2 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E         ndicators (check he bipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox Matrix	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	Aquic Ha absence of ind Matrix Moist) 3/1 7/1 4/3 tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri  Top Depth  0 1 2	e: bgroup): ption (Describe to Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E       ndicators (check he cipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface Muck Mineral Gleyed Matrix Redox Matrix Redox Matrix Redox Matrix Redox Matrix Redoc (LRR R, MLRA 149B)	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	absence of ind Matrix Moist)  3/1  7/1  4/3     tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 1 2	e: bgroup): ption (Describe to Depth	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the inc  Horizon   E       ndicators (check he cipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface Muck Mineral Gleyed Matrix Redox Matrix Redox Matrix Redox Matrix Redox Matrix Redoc (LRR R, MLRA 149B)	, shallow A licator or confirm the  Color (I 2.5YR 7.5YR 7.5YR ere if indica	absence of ind Matrix Moist)  3/1  7/1  4/3     tors are	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gr  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 149B) R K, L, R) C (LRR K, L, R) C (S (LRR K, L, R) C (LRR K, L, R)

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W51El Sample Point **Upland** 

VEGETATION	(Species identified in all uppercase are non-	-native species	5.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
4	Species Name	% Cover	_	Ind.Status	Dominance Test Worksheet
1.	Picea rubens	20	Y	FACU	N
2.	Acer rubrum	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.	<b></b>	<b></b>			Total Number of Deminant Species Across All Strate: 1 (R)
<u>4.</u> 5.					Total Number of Dominant Species Across All Strata:4(B)
5. 6.					Percent of Deminent Species That Are ORL EACW, or EAC: $25.0\%$ (A/R)
7.			 		Percent of Dominant Species That Are OBL, FACW, or FAC: <u><b>25.0%</b></u> (A/B)
7. 8.					Prevalence Index Worksheet
9.					
9. 10.		<u></u>			<del></del>
10.	Total Cov		·		OBL spp. $0$ $x$ $1 = 0$ FACW spp. $0$ $x$ $2 = 0$
	10101 001	- 15			FAC spp. 25 x 3 = 75
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 31
1.	Viburnum lantanoides	5	Υ	FACU	UPL spp. $0 \times 5 = 0$
2.	Picea rubens	1	N	FACU	·· ———
3.					Total 56 (A) 199 (B)
4.					···
5.					Prevalence Index = B/A = 3.554
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cov	ver = 6			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
	t size: 2 meter radius)			= 1 O I I	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Aralia nudicaulis	5	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
2.	Acer rubrum	5	N	FAC	present, unless disturbed or problematic.
3. 4.					Definitions of Vegetation Strata:
5.					Demilions of Vegetation Strata.
6	_ <del></del>				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cov	ver = 10			
Woody Vine Strate	um (Plot size: 10 meter radius)				
1.					
2.					Under the Manager than Dungant
3.					Hydrophytic Vegetation Present ☐ Yes ☑ No
4.					
5.	Total Cov	rer = 0			
Remarks:	I Ulai Cuv	/er = ∪			
Nomains.					
Additional Rer	narke:				
Additional IXO.	iiai no.				



Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	•				•			County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		Elliottsville-Telos asso	ciation, 3 to 1				/I/WWI Classification:	: PEM/PSS		Wetland ID:	W51EI
Landform:	Terrace		,		al Relief:	Linear				Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.138704	L	ongitude:	: -69.87330	048	Datum	: NAD 83		
• • •		ditions on the site ty							No	1	
		or Hydrology □ sig	•			1	Are normal circumst		nt?	1	
_		or Hydrology □ nat	•				□ Yes	☑ No ˈ			
SUMMARY OF			, , , , , , , , , , , , , , , , , , ,								
Hydrophytic Ve		sent?		✓ Yes	s □ No			Hydric Soils	Present?		☑ Yes □ No
Wetland Hydro	_			☑ Yes						Within A Wetla	
Remarks:	Statewide o			<u> </u>				lis Tills Gaill	pinig i onit	vviuiiii A vveua	iid: <u>D 165 D 140</u>
Nemaiks.	Statewide	arougni									
HYDROLOGY											
Wetland Hydi	rology Indica	<b>ators</b> (Check here i	f indicators	are not	present	$\Box$					
<u>Primary</u>	_								Secondary:		
	A1 - Surface				B9 - Wate					B6 - Surface Soi	
	│ A2 - High Wa │ A3 - Saturatio					uatic Fauna rl Deposits				B10 - Drainage F B16 - Moss Trim	
	B1 - Water M				C1 - Hydi					C2 - Dry-Season	
l –	B2 - Sedimer				-	-	spheres on Living Roots			C8 - Crayfish Bu	
	DO D : 6 D	•					educed Iron			•	/isible on Aerial Imagery
	l B4 - Algal Ma				C6 - Rec	ent Iron Re	eduction in Tilled Soils			D1 - Stunted or S	Stressed Plants
	B5 - Iron Dep			_	C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima	0 ,		Other (Ex	oplain in Re	emarks)			D3 - Shallow Aqu	
	Bo - Sparsely	y Vegetated Concave S	surrace							D4 - Microtopogr D5 - FAC-Neutra	
<b>5</b> : 1101	41									Do - 1 Ao-14cutte	
Field Observa		_									
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent? ⊡	∃ Yes □ No
Water Table P		☐ Yes ☑ No	Depth:		(in.)			•	3,		
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Recor	ded Data (str	eam gauge, monitorii	ng well, aeri	ial photos	s, previou	s inspecti	ons), if available:		N/A		
Damarka	01-1	1 1 (									
i Remarks:	Statewide d	drought									
Remarks:	Statewide o	drought									
	Statewide	drought									
SOILS			a-Talos asso	ociation 3	to 15%	S	eries Drainage Class	· Somewhat r	oortly drain	ned	
SOILS Map Unit Name	e:	Chesuncook-Elliottsvill					eries Drainage Class:	։ Somewhat բ	poortly drain	ned	
SOILS  Map Unit Name Taxonomy (Su	e: bgroup):	Chesuncook-Elliottsvill Loamy, isotic, frigid	l, shallow A	quic Ha	plorthods	}	•		•		
SOILS  Map Unit Name Taxonomy (Su  Profile Descri	e: bgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsvill Loamy, isotic, frigid	l, shallow A	quic Ha	plorthods	}	eries Drainage Class.  D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	•		Teyture
SOILS  Map Unit Name Taxonomy (Su  Profile Descri Top	e: bgroup): ption (Describe to Bottom	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind	l, shallow A	aquic Ha absence of indi Matrix	plorthods icators.) (Type: C	}	D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	ore Lining, M=Matrix)	Texture
SOILS  Map Unit Name Taxonomy (Su  Profile Descri	e: bgroup): <b>ption</b> (Describe to	Chesuncook-Elliottsvill Loamy, isotic, frigid	l, shallow A	quic Ha absence of indi Matrix Moist)	plorthods icators.) (Type: 0	}	•	Covered/Coated Sand Gra	ains; Location: PL=Po		(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Su  Profile Descri Top	e: bgroup): ption (Describe to Bottom Depth 1	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind	Color (I	Aquic Ha absence of indi Matrix Moist) 3/2	plorthods icators.) (Type: 0	}	D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	ore Lining, M=Matrix)	(e.g. clay, sand, loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 3	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind	Color (I 7.5YR 2.5Y	Aquic Ha  absence of indi  Matrix  Moist)  3/2  3/1	plorthods icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri Top	e: bgroup): ption (Describe to Bottom Depth 1	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I	Aquic Ha absence of indi Matrix Moist) 3/2	plorthods icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	ore Lining, M=Matrix)	(e.g. clay, sand, loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 3	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I 7.5YR 2.5Y	Aquic Ha  absence of indi  Matrix  Moist)  3/2  3/1	plorthods icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I 7.5YR 2.5Y	Matrix Moist) 3/2 3/1 4/2	plorthods icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)    8/6	Covered/Coated Sand Gra  Mottles  % 2	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2	plorthods icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)    8/6	Covered/Coated Sand Gra  Mottles  % 2	Type C	Location PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0 1	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2	plorthods icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6	Covered/Coated Sand Gra  Mottles  % 2	Type C	Location PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth 0 1	e: bgroup): ption (Describe to Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2	plorthods icators.) (Type: 0	C=Concentration,  10YR	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6	Covered/Coated Sand Gra  Mottles  % 2	Type C	Location PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2	% 100 100	  10YR   	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)    8/6	Covered/Coated Sand Gra  Mottles  % 2	Type	Location PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11 Soil Field In	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the ind  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2 tors are	plorthods icators.) (Type: 0  % 100 100 not prese		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11 Soil Field In	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2 tors are	plorthods icators.) (Type: 0  % 100 100 not prese	10YR value Belo	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2 tors are	y y 100 100 100    not presence of the presence		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11 Soil Field In A1- Histosol A2 - Histic Ep	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y	Matrix Moist) 3/2 3/1 4/2 tors are	plorthods icators.) (Type: 0  % 100 100 not prese S8 - Poly S9 - Thin F1 - Loan		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth  1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check here) cipedon istic en Sulfide d Layers	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist) 3/2 3/1 4/2 tors are	y 100 100 100 100    not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location  Location   PL     matic Soils <sup>1</sup> Muck (LRR K, L, MLRA the Prairie Redox (LR ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist) 3/2 3/1 4/2 tors are	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location  Location  PL    matic Soils  Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, k)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth  1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick D	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2    tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist) 3/2 3/1 4/2 tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo		D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location  Location  PL    matic Soils  Muck (LRR K, L, MLRA t Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Massemont Floodplain Science (LRR K, Man	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2    tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location  Location  PL  PL    matic Soils  Muck (LRR K, L, MLRA the Prairie Redox (LRR k, L, M) lue Below Surface ark Surface (LRR K, M) anganese Massement Floodplain Scoto Spodic (MLRA 144A, 144A, Spodic (MLRA 144A, 144A, Spodic (MLRA 144A, 144A, Spodic (MLRA 144A, Spodic	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2    tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the interest of the depth needed to	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2    tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2    tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su  Profile Descri  Top Depth  0 1 3	e: bgroup): ption (Describe to Bottom Depth  1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A1- Deplete A1- Sandy M S1- Sandy M S2- Sandy R S5- Sandy R S5- Sandy R S5- Sandy R S6- Stripped S7- Dark Su	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2     tors are	y 100 100 100 100      s8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2     tors are	y 100 100 100 100     not presence S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Su Profile Descri  Top Depth  0 1 3	e: bgroup): ption (Describe to Bottom Depth  1 3 11 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A1- Deplete A1- Sandy M S1- Sandy M S2- Sandy R S5- Sandy R S5- Sandy R S5- Sandy R S6- Stripped S7- Dark Su	Chesuncook-Elliottsvill Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I 7.5YR 2.5Y 5Y ere if indica	Matrix Moist)  3/2  3/1  4/2     tors are	y 100 100 100 100      s8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	any Mucky May Gleyed Matrix Dark Surface Matri	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  8/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W51El Sample Point wetland

VEGETATION	(Species identified in all uppercase ar	e non-native species	<u> </u>		
	ot size: 10 meter radius)		. )		
, , , , , , , , , , , , , , , , , , , ,	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					· · · · · · · · · · · · · · · · · · ·
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 50 x 1 = 50
	Tota	I Cover = 0			FACW spp. 7 x 2 = 14
					FAC spp. 10 x 3 = 30
Sapling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. 25 x 4 = 100
1.					UPL spp. $0 \times 5 = 0$
2.					··· <del></del>
3.					Total 92 (A) 194 (B)
4.					
5.					Prevalence Index = B/A = <b>2.109</b>
6.					1 Tovalorios mask Birt
7.					
8.	<del></del>				Hydrophytic Vegetation Indicators:
		<b></b>			
9.	<del></del>				☐ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.	 Tata				☐ Yes ☐ No Dominance Test is > 50%
	I ota	I Cover = 0			☐ Yes ☐ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☐ No Morphological Adaptations (Explain) *
	ot size: 2 meter radius)			251	☐ Yes ☐ No Problem Hydrophytic Vegetation (Explain) *
1.	Calamagrostis canadensis	50	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
2.	Symphyotrichum laeve	20	Y	FACU	present, unless disturbed or problematic.
3.	Osmunda claytoniana	10	N	FAC	
4.	Onoclea sensibilis	2	N	FACW	Definitions of Vegetation Strata:
5.	Spiraea alba	5	N	FACW	
6	Rubus allegheniensis	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
		ıl Cover = 92			
	1000	100001 - 52			
Woody Vine Strat	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					
5.					
<u></u>		Il Cover = 0	·		
Remarks:	1000	100001 - 5			
Tromania.					
Additional Day	ul-a :				
Additional Rer	пагкѕ:				



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1:					igator #2:					State:	ME
Soil Unit:		ttsville-Telos association, 3 to 15	percent slopes, v				VI/WWI Classification:	Upland		Wetland ID:	W52EI
Landform:	Terrace				cal Relief:					Sample Point:	Upland
Slope (%):	See topo map		45.138110		ongitude:				: NAD 83		
		ditions on the site typ				o, explain in		☐ Yes ☑			
		or Hydrology ☐ sign					Are normal circumsta		ť?		
		or Hydrology  □ natι	irally proble	ematic?			□ Yes	☑ No			
SUMMARY OF				_ V	_ N-			Llaudai a Onila	D		□ V □ N-
Hydrophytic Veg				☐ Yes				Hydric Soils		Alithin A Matlan	☐ Yes ☑ No
Wetland Hydrol				☐ Yes	i ino			is this Sam	pling Point v	Within A Wetland	d? ☐ Yes ☑ No
Remarks:	Statewide of	arougni									
LIVEROLOGY											
HYDROLOGY											
		ators (Check here if	indicators	are not p	present	)⊡			0 1		
Primary:	A1 - Surface	Water			B9 - Wate	r Stained	Leaves		Secondary:	B6 - Surface Soil (	Cracke
	A2 - High Wa			H						B10 - Drainage Pa	
	A3 - Saturation									B16 - Moss Trim L	
	B1 - Water M				C1 - Hydr					C2 - Dry-Season \	
	B2 - Sedimer B3 - Drift De						spheres on Living Roots educed Iron			C8 - Crayfish Burr	ows sible on Aerial Imagery
	B4 - Algal Ma						eduction in Tilled Soils			D1 - Stunted or St	
	B5 - Iron Dep									D2 - Geomorphic	
		on Visible on Aerial Ima			Other (Ex	plain in Re	emarks)			D3 - Shallow Aquit	
	B8 - Sparsely	y Vegetated Concave S	urtace							D4 - Microtopogra D5 - FAC-Neutral	
F: 1101 /							I			D3 - FAC-Neutral	1651
Field Observat											
Surface Water I		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
Water Table Pre		☐ Yes ☑ No	Depth:		(in.)			_			
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ed Data (str	eam gauge, monitorin	ıg well, aeria	al photos	, previous	inspectio	ns), if available:		N/A		
Remarks:	Statewide of	drought									
. tomanto.	Ciaiomac (	arougiit									
	Claiomac	arought									
SOILS	Cialomia	arougnt									
SOILS Map Unit Name	:	Chesuncook-Elliottsville-Telos a				5	Series Drainage Class:	Somewhat p	oorly draine	ed	
SOILS Map Unit Name Taxonomy (Sub	: group):	Chesuncook-Elliottsville-Telos a	, shallow A	quic Hap	olorthods						
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	: group): <b>tion</b> (Describe to	Chesuncook-Elliottsville-Telos a	, shallow A	quic Hap	olorthods		Series Drainage Class:	vered/Coated Sand Grains			
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	group): tion (Describe to Bottom	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi	, shallow A	quic Hap bsence of indica Matrix	olorthods ators.) (Type: C=0		=Depletion, RM=Reduced Matrix, CS=Cow	vered/Coated Sand Grains Mottles	; Location: PL=Pore L	ining, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	: group): tion (Describe to Bottom Depth	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi	, shallow A cator or confirm the a Color (I	quic Hap bsence of indica Matrix Moist)	olorthods ators.) (Type: C=0	Concentration, D	=Depletion, RM=Reduced Matrix, CS=Cow	vered/Coated Sand Grains Mottles %	; Location: PL=Pore L	Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 1	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow Acceptor or confirm the acceptor of Color (I	quic Hap beence of indica Matrix Moist) 3/1	olorthods ators.) (Type: C=C	Concentration, D	=Depletion, RM=Reduced Matrix, CS=Cow  Color (Moist)	wered/Coated Sand Grains Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1	group): tion (Describe to Bottom Depth 1 2	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	Color (I 2.5YR 7.5YR	quic Hap beence of indica Matrix Moist) 3/1 7/1	olorthods ators.) (Type: C=0	Concentration, D	-Depletion, RM=Reduced Matrix, CS=Cow	wered/Coated Sand Grains  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2	group): tion (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	Color (I 2.5YR 7.5YR 7.5YR	quic Hap beence of indica Matrix Moist) 3/1 7/1 4/3	% 100 100 100 100	Concentration, D	Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2	group): tion (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	, shallow Acceptance of confirm the acceptance of confirm the acceptance of the confirmation of the confir	quic Hap beence of indica Matrix Moist) 3/1 7/1 4/3	% 100 100 100 100 100 100 100	Concentration, D	-Depletion, RM=Reduced Matrix, CS=Cove  Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2	group): tion (Describe to  Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	, shallow Acceptor or confirm the acceptor of Color (I 2.5YR 7.5YR 7.5YR	quic Hap beence of indice Matrix Moist) 3/1 7/1 4/3 	% 100 100 100 100 100 100 100 100 100	Concentration, D	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2	group): tion (Describe to Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	, shallow Acceptor or confirm the acceptor of Color (I 2.5YR 7.5YR 7.5YR	quic Hap beence of indice Matrix Moist) 3/1 7/1 4/3 	% 100 100 100 100 100 100 100 100 100 10	Concentration, D	=Depletion, RM=Reduced Matrix, CS=Cove  Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2	group): tion (Describe to  Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	, shallow Acceptor or confirm the acceptor of Color (I 2.5YR 7.5YR 7.5YR	quic Hap beence of indice Matrix Moist) 3/1 7/1 4/3 	% 100 100 100 100 100 100 100 100 100	Concentration, D	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2	group): tion (Describe to  Bottom Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi  Horizon   E	cator or confirm the a	quic Hap bsence of indica Matrix Moist) 3/1 7/1 4/3	% 100 100 100 100 100 100 100 100 100 10	Concentration, D	=Depletion, RM=Reduced Matrix, CS=Cove  Color (Moist)	wered/Coated Sand Grains Mottles 96	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric S	group): tion (Describe to  Bottom Depth 1 2 15 Soil Field In	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	cator or confirm the a	quic Hap beence of indicate Matrix Moist) 3/1 7/1 4/3	%	Concentration, D	Color (Moist)	Mottles	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group): tion (Describe to Bottom Depth 1 2 15 Soil Field Ir	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	cator or confirm the a	quic Hap beence of indica Matrix Moist) 3/1 7/1 4/3 ors are r	Month   Mont	Concentration, D	Color (Moist)	Mottles % Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group): tion (Describe to  Bottom Depth 1 2 15 Soil Field In	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E ndicators (check hell	cator or confirm the a	quic Hap beence of indicate Matrix Moist) 3/1 7/1 4/3	Month   Mont	Concentration, D	Color (Moist)	Mottles	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric 3	group): tion (Describe to: Bottom Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic E1 A3 - Black H A4 - Hydroge	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E ndicators (check her	cator or confirm the a	quic Hap beence of indice Matrix Moist) 3/1 7/1 4/3 ors are r	% 100 100 100 100 100 100 100	concentration, D	Color (Moist)	Mottles % Indicato	Type	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR Lucky Peat of Peat (i	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group): tion (Describe to: Bottom Depth 1 2 15 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E ndicators (check her pipedon istic en Sulfide d Layers	cator or confirm the a	quic Hap bsence of indict Matrix Vioist) 3/1 7/1 4/3 ors are r	Monthods   Monthods	concentration, D	Color (Moist)	Mottles %	Type	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR LICKY Peat of Deat (LU LUTface (LRR K, L, M, U LUTface (LRR K, L, M,	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 498) K. L. R) LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric S	group):  tion (Describe to Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon ndicators (check her pipedon istic en Sulfide d Layers ed Below Dark Surface	cator or confirm the a	quic Hap beence of indict Matrix Moist) 3/1 7/1 4/3 ors are r	Monthods   Monthods	concentration, D	Color (Moist)  w Surface (LRR R, MLRA 149B) dineral (LRR K, L) Matrix K urface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric 3	group):  tion (Describe to Depth 1 2 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi  Horizon   E	cator or confirm the a	quic Hap beence of indici Matrix Moist)  3/1  7/1  4/3    ors are r	%	concentration, D	Color (Moist)	Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 49B) K, L, R) LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric S	group):  tion (Describe to Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon  E dicators (check her pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	cator or confirm the a	quic Hap beence of indict Matrix Moist) 3/1 7/1 4/3 ors are r	Monthods   Monthods	concentration, D	Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group):  tion (Describe to Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	cator or confirm the a	quic Hap beence of indici Matrix Moist)  3/1  7/1  4/3    ors are r	%	concentration, D	Color (Moist)	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam  (49B) K. L. R) LRR K, L, R) LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric S	group):  tion (Describe to Depth 1 2 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi  Horizon   E	cator or confirm the a	quic Hap beence of indici Matrix Moist)  3/1  7/1  4/3    ors are r	%	concentration, D	Color (Moist)	Mottles  % Indicato	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam  (49B) K. L. R) LRR K, L, R) LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group):  tion (Describe to Depth 1 2 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	cator or confirm the a	quic Hap beence of indici Matrix Moist)  3/1  7/1  4/3    ors are r	%	concentration, D	Color (Moist)	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group):  tion (Describe to Depth 1 2 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi  Horizon   E	cator or confirm the a	quic Hap beence of indici Matrix Moist)  3/1  7/1  4/3    ors are r	%	concentration, D	Color (Moist)	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric:	group):  tion (Describe to Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi  Horizon   E	cator or confirm the a	quic Hap beence of indici Matrix Moist)  3/1  7/1  4/3    ors are r	Monthods   Monthods	concentration, D	Color (Moist)	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 2 NRCS Hydric :	group):  tion (Describe to Depth 1 2 15	Chesuncook-Elliottsville-Telos a Loamy, isotic, frigid the depth needed to document the indi Horizon E	cator or confirm the a	quic Hapbsence of indic. Matrix Moist) 3/1 7/1 4/3 ors are r	Monthods   Monthods	concentration, D	Color (Moist)	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam

#### WETLAND DETERMINATION DATA FORM

TETRA TECH

Northeast and Northcentral Region

Project/Site:	Western Maine Renewable Energy Proje	ct			Wetland ID: W52El Sample Point <b>Upland</b>
VEGETATION	(Species identified in all uppercase are non-nativ	ve species.)			
Tree Stratum (Plo	ot size: 10 meter radius)				Danibara Tark Washahark
	Species Name	% Cover		Ind.Status	Dominance Test Worksheet
1.	Picea rubens	20	Y	FACU	
2.	Acer rubrum	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.		-			
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0 x 1 = 0
	Total Cover =	= 40			FACW spp. 0 x 2 = 0
					FAC spp. 25 x 3 = 75
Sapling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. 31
1.	Viburnum lantanoides	5	Υ	FACU	UPL spp. 0 x 5 = 0
2.	Picea rubens	1	N	FACU	··· <u></u> -
3.					Total 56 (A) 199 (B)
4.					
5.					Prevalence Index = B/A = 3.554
6.					TOTAL STATE OF THE
7.					
8.					Hydrophytic Vegetation Indicators:
9.	_ <del></del>				
10.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cover =	= 6			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
	ot size: 2 meter radius)			E4 011	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Aralia nudicaulis	5	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
2.	Acer rubrum	5	N	FAC	present, unless disturbed or problematic.
3.					
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	= 10			
1					
Woody Vine Strat	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☐ Yes ☑ No
4.					,,,
5.					
<u> </u>	Total Cover =				
Remarks:	Total Covel -				
i tomanto.					
Astaliai LE					
Additional Rei	marks:				
1					



	VVESICITI IVIAI	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1:	: Emmy Irvin			Investi	igator #2:					State:	ME
Soil Unit:	Chesuncook-	-Elliottsville-Telos assoc	ciation, 3 to 1				/I/WWI Classification:	: PEM/PSS		Wetland ID:	W52EI
Landform:	Terrace				al Relief:			_		Sample Point:	Wetland
Slope (%):	See topo map		45.138704		ongitude:				NAD 83		
		ditions on the site typ				o, explain in		□ Yes □			
		or Hydrology ☐ sign					Are normal circumst  Ves	ances presen ☑ No	ι?		
SUMMARY OF		or Hydrology □ natu	arally proble	emalic?			□ 1es				
Hydrophytic Ve		nont?		✓ Yes	□ No			Hydric Soils	Drocont?		□ Voo □ No
Wetland Hydro				<ul><li>✓ Yes</li></ul>						Within A Wetlan	✓ Yes □ No
Remarks:	Statewide of			<u> </u>	<u> </u>			lis Tills Saili	Jilly Follic	Willim A Wellan	u: <u>  165   140  </u>
ixemarks.	Statewide	arougin									
HYDROLOGY											
	ology India	ntara (Chaok hara if	indicators	ara nat r	rocent	\_					
Primary		ators (Check here if	indicators	are not p	resent	)□			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	9				B13 - Aqu	uatic Fauna	1			B10 - Drainage P	atterns
							spheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bur	
							educed Iron				isible on Aerial Imagery
							duction in Tilled Soils			D1 - Stunted or S	
										D2 - Geomorphic	
		on Visible on Aerial Ima y Vegetated Concave S			Other (Ex	plain in Re	marks)			D3 - Shallow Aqu	
	Do oparooi	y vogotatou comouve c	unuoo							D5 - FAC-Neutral	
Field Observa	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)					_	
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
Dagariba Basara	ded Deta Jets	eam gauge, monitorin			( ,	inanaatia	na) if available.		N/A		
		eam gauge, monitorin	iy well, aelia	ai pilotos,	, previous	IIISDECIIO	i is), ii avaliabic.				
	Statowida	drought				'	,,				
Remarks:	Statewide of	drought					,,				
	Statewide of	drought				,	<i>P</i>				
SOILS			o Tolon oppo	oiotion 2 t				· Samouhat n	oorthy drain	od	
SOILS Map Unit Name	e:	Chesuncook-Elliottsville			to 15%		eries Drainage Class:	: Somewhat p	oortly drain	ed	
SOILS Map Unit Name Taxonomy (Sub	e: bgroup):	Chesuncook-Elliottsville Loamy, isotic, frigid	, shallow A	quic Hap	to 15% blorthods	S	eries Drainage Class:				
SOILS Map Unit Name Taxonomy (Sub	e: bgroup): ption (Describe to	Chesuncook-Elliottsville Loamy, isotic, frigid	, shallow A	quic Hap	to 15% blorthods	S		vered/Coated Sand Grains;			Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	e: bgroup): ption (Describe to Bottom	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi	, shallow A	quic Hap absence of indica Matrix	to 15% blorthods ators.) (Type: C=0	S	Series Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Con	vered/Coated Sand Grains	; Location: PL=Pore	Lining, M=Matrix)	Texture (e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi	, shallow A cator or confirm the a	quic Hap absence of indica Matrix Moist)	to 15% blorthods ators.) (Type: C=6	Concentration, D	eries Drainage Class:	wered/Coated Sand Grains; Mottles	: Location: PL=Pore	Lining, M=Matrix)	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow A cator or confirm the a Color (I 7.5YR	quic Hap absence of indica Matrix Moist) 3/2	to 15% blorthods ators.) (Type: C=0	Concentration, D	eries Drainage Class:  Depletion, RM=Reduced Matrix, CS=Cot  Color (Moist)	wered/Coated Sand Grains: Mottles %	Type	Lining, M=Matrix)  Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1	bgroup): ption (Describe to Bottom Depth 1	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi	, shallow A cator or confirm the a Color (I 7.5YR 2.5Y	quic Hap absence of indica Matrix Moist) 3/2 3/1	to 15% blorthods ators.) (Type: C=0	Concentration, D	Series Drainage Class:  Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)	vered/Coated Sand Grains;  Mottles  %	Type	Lining, M=Matrix)  Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow A cator or confirm the a Color (I 7.5YR	quic Hap absence of indica Matrix Moist) 3/2	to 15% blorthods ators.) (Type: C=0	Concentration, D	eries Drainage Class:  Depletion, RM=Reduced Matrix, CS=Cot  Color (Moist)	wered/Coated Sand Grains: Mottles %	Type	Lining, M=Matrix)  Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 3	e: bgroup): ption (Describe to Bottom Depth 1 3	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	cator or confirm the a  Color (I  7.5YR  2.5Y  5Y	quic Hap absence of indica Matrix Moist) 3/2 3/1 4/2	to 15% blorthods ators.) (Type: C=6  % 100 100 100	Concentration, D	Color (Moist)  8/6	wered/Coated Sand Grains, Mottles % 2	Type C	Lining, M=Metrix)  Location    PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 3	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi  Horizon	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap makence of indica Matrix Moist) 3/2 3/1 4/2	to 15% blorthods ators.) (Type: C=6		Color (Moist)  8/6	Mottles % 2	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 3	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi  Horizon	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap pabsence of indice Matrix Moist) 3/2 3/1 4/2	to 15% blorthods stors.) (Type: C=i  % 100 100 100	Concentration, D	Color (Moist)  8/6	wered/Coated Sand Grains; Mottles % 2	Type C	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 1 3	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap mbsence of indica Matrix Moist) 3/2 3/1 4/2	to 15% blorthods stors.) (Type: C=i	 10YR	Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)  8/6	wered/Coated Sand Grains; Mottles % 2	Type C	Lining, M=Matrix)  Location    PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi  Horizon	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of Indica Matrix Moist) 3/2 3/1 4/2	to 15% blorthods lors.) (Type: C=6  % 100 100 100	Concentration, D	Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)  8/6	wered/Coated Sand Grains; Mottles % 2	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of Indica Matrix Moist) 3/2 3/1 4/2	to 15% blorthods lors.) (Type: C=6  % 100 100 100 not preser	Concentration, D	Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)  8/6	wered/Coated Sand Grains; Mottles % 2	Type	Lining, M=Matrix)  Location    PL	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	bgroup): ption (Describe to Depth 1 3 11 Soil Field Ir A1- Histosol A2- Histic E	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indic  Horizon ndicators (check here	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  blorthods    %	Concentration, D  10YR nt	Color (Moist)   8/6      W Surface (LRR R, MLRA 1498)	Wered/Coated Sand Grains:   Mottles	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Depth 1 3 11 Soil Field Ir A1- Histosol A2- Histosol A3- Black Hi	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi  Horizon	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  lorsh (Type: C=6)  %  100  100  100     ot preser  88 - Polyn  F1 - Loan	Concentration, D  10YR tr	Color (Moist)  8/6  w Surface (LRR R, MLRA 1498) Mineral (LRR K, L)	Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 11 3 NRCS Hydric	bgroup):  ption (Describe to Depth 1 3 3 11 Soil Field Ir A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi  Horizon  adicators (check her bipedon istic en Sulfide	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap basence of indice Matrix Moist) 3/2 3/1 4/2 ors are r	to 15%  lorsh (Type: C=6  %  100  100  100     tot preser  88 - Polyn  \$9 - Thin  F1 - Loan  F2 - Loan	Concentration, D  10YR 10yR t	Depletion, RM=Reduced Matrix, CS=Co  Color (Moist)   8/6      W Surface (LRR R, MLRA 1498) dineral (LRR R, L) Matrix	Mottles % 2 Indicator	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	bgroup): ption (Describe to: Bottom Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black H A4 - Hydroge A5 - Stratifier	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi  Horizon	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap beence of indict Matrix Moist) 3/2 3/1 4/2 ors are r	to 15% blorthods lors) (Type: C=6  % 100 100 100 tot preser S8 - Polyn S9 - Thin F1 - Loan F3 - Depli	Concentration, D  10YR 10YR tr	Depletion, RM=Reduced Matrix, CS=Co  Color (Moist)   8/6     W Surface (LRR R, MLRA 149B) Matrix Matrix Matrix	Mottles  % 2 Indicato	Type	Location  PL matic Soils  Muck (LRR K, L, MLRA  Prairie Redox (LRR  Location  Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	bgroup): ption (Describe to: Bottom Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black H A4 - Hydroge A5 - Stratifier	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indie Horizon	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap basence of indice Matrix Moist) 3/2 3/1 4/2 ors are r	to 15%  lorsh (Type: C=6  %  100  100  100     tot preser  88 - Polyn  \$9 - Thin  F1 - Loan  F2 - Loan	Concentration, D  10YR 110YR	Depletion, RM=Reduced Matrix, CS=Color (Moist)  8/6 w Surface (LRR R, MLRA 1498) dice (LRR R, MLRA 1498) dineral (LRR K, L) Matrix face	Mottles	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam (49B) K. L. R) (LRR K, L, R) (LRR K, L)
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	bgroup): ption (Describe to Depth 1 3 3 11 Soil Field Ir A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifier A11 - Deplet A12 - Thick [S1 - Sandy M S1 - Sandy M S1 - Sandy M S1 - Sandy M	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indict Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  blorthods  % 100 100 100 tot preser S8 - Poly S9 - Thin F1 - Loan F3 - Depl F6 - Redo	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	Mottles % 2 Indicator	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	bgroup): ption (Describe to: Bottom Depth 1 3 11 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black H A4 - Hydroge A5 - Stratifier A11 - Deplet A12 - Thick I S1 - Sandy M S4 - Sandy G	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the individual the indi	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  lorsholorthods  %  100  100  100     s8 - Polyn  F1 - Loan  F2 - Loan  F3 - Deply  F6 - Redc  F7 - Deply	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	Mottles % 2 Indicato	Type	Location  PL matic Soils  Muck (LRR K. L. MLRA - Prairie Redox (LRR K. L. M) lue Below Surface ark Surface (LRR K. L. M) lue Below Surface ont Floodplain Soi Spodic (MLRA 1444 A	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	bgroup): ption (Describe to Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the individual the indi	, shallow A cator or confirm the or  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  lorsholorthods  %  100  100  100     s8 - Polyn  F1 - Loan  F2 - Loan  F3 - Deply  F6 - Redc  F7 - Deply	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	Mottles % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the individual the indi	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  lorsholorthods  %  100  100  100     s8 - Polyn  F1 - Loan  F2 - Loan  F3 - Deply  F6 - Redc  F7 - Deply	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	Mottles  % 2 Indicato	Type	Location  PL matic Soils  Muck (LRR K. L. MLRA - Prairie Redox (LRR K. L. M) lue Below Surface ark Surface (LRR K. L. M) lue Below Surface ont Floodplain Soi Spodic (MLRA 1444 A	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the indi Horizon	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15%  lorsholorthods  %  100  100  100     s8 - Polyn  F1 - Loan  F2 - Loan  F3 - Deply  F6 - Redc  F7 - Deply	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	wered/Coated Sand Grains:  Mottles  % 2 Indicato	Type	Location  Location  PL     matic Soils  Muck (LRR K, L, MLRA  Prairie Redox (LRR k, L, MLRA  Prairie Qurface (LRR K, L, MLRA  Much (LRR K, L, MLRA  Prairie Todoplain Soi  sonot Floodplain Soi  e Spodic (MLRA 144A, and 144A, a	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MRR A149B) (145, 149B) face
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	e: bgroup): ption (Describe to Depth  1 3 11 Soil Field Ir A1- Histosol A2 - Histic El A3- Black H A4 - Hydrole A11 - Deplet A12 - Thick [ S1 - Sandy R S4 - Sandy G S5 - Sandy F S6 - Stripped S7 - Dark Su	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the individual the indi	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indict Matrix Moist)  3/2  3/1  4/2     ors are r	to 15% blorthods lors.) (Type: C=6  % 100 100 100 ot preser S8 - Poly S9 - Thin F1 - Loan F3 - Depli F6 - Redc F7 - Depli F8 - Redc	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	Mottles  % 2 Indicator  indicators c disturbed collistered collisions.	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 1 3 NRCS Hydric	Bottom Depth 1 3 11	Chesuncook-Elliottsville Loamy, isotic, frigid the depth needed to document the individual the indi	, shallow A cator or confirm the a  Color (I 7.5YR 2.5Y 5Y	quic Hap absence of indica Matrix Moist)  3/2  3/1  4/2     ors are r	to 15% blorthods lors.) (Type: C=6  % 100 100 100 ot preser S8 - Poly S9 - Thin F1 - Loan F3 - Depli F6 - Redc F7 - Depli F8 - Redc	Concentration, D  10YR	Depletion, RM-Reduced Matrix, CS-Conton (Moist)  8/6 w Surface (LRR R, MLRA 1498) Acc (LRR R, MLRA 1498) Alineral (LRR K, L) Matrix ( frace Surface	wered/Coated Sand Grains:  Mottles  % 2 Indicato	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam sandy loam (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) (145, 149B) face

Sample Point Wetland

#### WETLAND DETERMINATION DATA FORM

Wetland ID:

W52EI

Northeast and Northcentral Region



Western Maine Renewable Energy Project

Project/Site:

**VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name Ind.Status % Cover Dominant 2. Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) 3. 4 Total Number of Dominant Species Across All Strata: 2 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) 7. 8. Prevalence Index Worksheet 9 Total % Cover of: Multiply by: 10 OBL spp. x 1 = ----50 Total Cover = 0 FACW spp. x 2 = 14 FAC spp. 10 x 3 = 30 Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 = FACU spp. 25 100 x 5 = UPL spp. 0 0 2. 3. 92 \_\_\_\_(A) 194 Total 4. 5. Prevalence Index = B/A = 2.109 6. \_\_ 7. --8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes ☐ No Rapid Test for Hydrophytic Vegetation 10 ☐ Yes □ No Dominance Test is > 50% Total Cover = 0 ☐ Yes □ No Prevalence Index is ≤ 3.0 \* ☐ Yes ☐ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) ☐ Yes ☐ No Problem Hydrophytic Vegetation (Explain) \* Calamagrostis canadensis 50 OBL \* Indicators of hydric soil and wetland hydrology must be 20 Υ 2 **FACU** Symphyotrichum laeve present, unless disturbed or problematic. 3. Osmunda claytoniana 10 Ν FAC **Definitions of Vegetation Strata:** 4. Onoclea sensibilis 2 Ν **FACW** FACW 5. Spiraea alba 5 Ν Rubus allegheniensis 6 5 Ν **FACU** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 92 Woody Vine Stratum (Plot size: 10 meter radius) 2. Hydrophytic Vegetation Present ☑ Yes ☐ No 3. 4. 5. Total Cover = 0 Remarks: **Additional Remarks:** 



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	•				•			County:	Somerset
Investigator #	1: Emmy Irvin			Investi	igator #2:					State:	ME
Soil Unit:	Telos-Chesu	ncook association, 3 to	15% slopes			NV	/I/WWI Classification:	: Upland		Wetland ID:	W61EI
Landform:	Terrace		·	Loc	al Relief:	Linear		•		Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.148614	L	ongitude:	-69.8532	79	Datum	: NAD 83		
· · · · · · · · · · · · · · · · · · ·	ydrologic cond	ditions on the site ty	pical for thi	s time of	f year? (If	no, explain	in remarks)	□ Yes ☑	No	1	
Are Vegetation	n □, Soil □,	or Hydrology □ sig	nificantly d	isturbed'	?		Are normal circumst	ances preser	nt?	1	
		or Hydrology □ nat	•				□ Yes	☑ No			
SUMMARY OF		, 0,	7 1								
Hydrophytic V		sent?		☐ Yes	s ☑ No			Hydric Soils	Present?		□ Yes ☑ No
Wetland Hydro	•			☐ Yes						Within A Wetla	
Remarks:	Statewide of							io i ino cam	pinig i onic	vvidimi / v vodadi	110. – 100 – 110
Tromanto.	Clatowide	aroagine									
HYDROLOGY											
						,					
		<b>ators</b> (Check here i	f indicators	are not	present	Į					
<u>Primar</u>	<u>'y:</u> ] A1 - Surface	Motor		_	DO Moto	or Ctainad	Legyes		Secondary:		I Crooks
l	A 1 - Surface  A2 - High Wa			님	B9 - Wate B13 - Aqu					B6 - Surface Soil B10 - Drainage F	
1	A3 - Saturation			H	B15 - Aqu					B16 - Moss Trim	
-	B1 - Water M				C1 - Hydr	•				C2 - Dry-Season	
	B2 - Sedimer	•					ospheres on Living Roots			C8 - Crayfish Bu	
	•						educed Iron				/isible on Aerial Imagery
l	B4 - Algal Ma						eduction in Tilled Soils		<del></del>	D1 - Stunted or S	
l	B5 - Iron Dep	oosแร on Visible on Aerial Ima	acerv	_	C7 - Thin Other (Ex					D2 - Geomorphic D3 - Shallow Aqu	
l -		/ Vegetated Concave S	0 ,	Ч	Other (Ex	фантит	zmarko)			D4 - Microtopogr	
_	,									D5 - FAC-Neutra	
Field Observa	ations:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)						
Water Table F		☐ Yes ☑ No	Depth:		1 1			Wetland Hy	drology Pr	resent? ==	] Yes ☑ No
Saturation Pre		☐ Yes ☑ No	Depth:		(in.)						
			<u> </u>		(in.)						
	<b>`</b>	eam gauge, monitorii	ng well, aer	ial photos	s, previous	s inspecti	ons), if available:		N/A		
D	Statovida	drauabt									
Remarks:	Statewide of	arougni									
Remarks:	Statewide	arougiit									
SOILS	Statewide	arought									
		Telos-Chesuncook ass	sociation, 3 to	o 15% slo	pes	S	series Drainage Class:	: Well Draine	d		
SOILS	ne:					S	Series Drainage Class:	: Well Draine	d		
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	lohumod	ds					ore Lining, M=Matrix)	
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	lohumod	ds		Series Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0			ore Lining, M=Matrix)	Texture
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup): <b>iption</b> (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	lohumod absence of indi Matrix	ds		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Pc	ore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to Bottom Depth	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc	Lithic Hap	lohumoo absence of indi Matrix Moist)	ds icators.) (Type: C			Covered/Coated Sand Gr		1	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su  Profile Descri	ne: ubgroup): iption (Describe to Bottom	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc	Lithic Hap	lohumod absence of indi Matrix	ds icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra  Mottles  %	ains; Location: PL=Po	1	<b>→</b> .
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap dicator or confirm the Color (I 10YR	Matrix Moist) 3/2	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location 	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap dicator or confirm the Color (I 10YR	Matrix Moist) 3/2	icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location   	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Color (I 10YR	Matrix Moist) 3/2	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap dicator or confirm the Color (I 10YR	Matrix Moist) 3/2	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Color (I 10YR	Matrix Moist) 3/2	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap	Matrix Moist)  3/2	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	ains; Location: PL=Po	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap	Matrix Moist)  3/2	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles %	ains; Location: PL=Po	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap	Matrix Moist) 3/2 tors are	% 100 not prese	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A	Lithic Hap	Matrix Moist) 3/2 tors are	% 100 not prese	=Concentration, value Belo	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  %	Type	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A        ndicators (check he	Lithic Hap	Matrix Moist) 3/2 tors are	% 100 not prese	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gra  Mottles  %	Type	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LR	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	ne: Libgroup): Iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon A andicators (check he	Lithic Hap	Matrix Moist) 3/2 tors are	% 100 not presesses Polyments Poly	=Concentration, value Belo Dark Surf	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location Muck (LRR K, L, MLRA : Prairie Redox (LRI ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 NRCS Hydric	ne:  ubgroup):  iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  andicators (check he bipedon stic en Sulfide	Lithic Hap	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	=Concentration, value Below Dark Surf ny Mucky ny Gleyed	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  %	Type	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRI ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 NRCS Hydric	ne: Libgroup):  iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A      ndicators (check he  pipedon stic en Sulfide d Layers	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not presesses Polyments Poly	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gra  Mottles  %	Type	Location Muck (LRR K, L, MLRA : Prairie Redox (LRI ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup):  iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  adicators (check he pipedon stic en Sulfide d Layers ed Below Dark Surface	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple	=Concentration.  value Belowany Mucky ny Mucky ny Gleyed eted Matri ox Dark Sur	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Covered/Coated Sand Gra  Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRI ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Depth  14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  andicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  ndicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface Muck Mineral Gleyed Matrix	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup): Iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon A adicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRI ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  adicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox Matrix	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Mottles % Indicato	Type	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Sur	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon A adicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRI ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  adicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox Matrix	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Mottles  %	Type	Location       matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Suriain in Remarks)	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A  adicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox Matrix	Color (I 10YR ere if indica	Matrix Moist) 3/2 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Mottles  %	Type	Location       matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Suriain in Remarks)	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0	iption (Describe to Bottom Depth 14	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  A      ndicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface Muck Mineral Gleyed Matrix Redox Matrix rface (LRR R, MLRA 149B)	Color (I 10YR ere if indica	Matrix Moist)  3/2      tors are	% 100	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)	Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRI ucky Peat of Peat urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks) ation and wetland hydrology	(e.g. clay, sand, loam) fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) S (LRR K, L, R) Dils (MLRA 149B) 145, 149B)  rface y must be present, unless

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W61El Sample Point Upland

VEGETATION	(Species identified in all uppercase are non-	native species	.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	<u>Species Name</u>	% Cover	_	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	10	Y	FAC	
2.	Fagus grandifolia	5	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.	Betula papyrifera	1	N	FACU	
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0 x 1 = 0
	Total Cove	er = 16			FACW spp 0
					FAC spp16
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp x 4 =
1.	Viburnum lantanoides	5		FACU	UPL spp 0
2.	Acer rubrum	1		FAC	
3.	Acer pensylvanicum	1		FACU	Total(A)156(B)
4.					
5.					Prevalence Index = B/A = 3.628
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cove	er = 7			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Acer rubrum	5	N	FAC	
2.	Maianthemum canadense	5	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Uvularia sessilifolia	10	Y	FACU	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
10.	Total Cove	er = 20			
	Total Gove	CI — 20			
Woody Vine Strati	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☐ Yes ☑ No
4.					, p,
5.					
<u> </u>	Total Cove	er = 0			
Remarks:	1041 000				
Additional Rer	narke:				
Additional Net	iiui nə.				



Project/Site:	\/\ootorn \/oi	ina Panawahla Enargy	Drojoet				Project #:	194-7130		Date:	09/09/20
Applicant:		ine Renewable Energy ine Renewables, LLC	riojeci				rioject #.	194-7 130		County:	Somerset
Investigator #				Invest	igator #2:					State:	ME
Soil Unit:		suncook associatior	n. 3 to 15%		igator 772.		VI/WWI Classification	: PEM		Wetland ID:	W61EI
Landform:	Terrace		.,	•	cal Relief:					Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.148321		ongitude:		153°	Datum	: NAD 83	·	
	ydrologic con	ditions on the site ty	pical for th	is time o	f year? (If	no, explain	in remarks)	□ Yes ☑	No		
Are Vegetatio	n □, Soil □,	or Hydrology □ sig	nificantly d	isturbed	?		Are normal circumst	tances preser	nt?		
Are Vegetatio	n □, Soil □,	or Hydrology □ nat	turally prob	lematic?	•		□ Yes	☑ No			
SUMMARY O	F FINDINGS										
Hydrophytic V	egetation Pre	esent?		✓ Yes				Hydric Soils	Present?		
Wetland Hydr				✓ Yes	□ No			Is This Sam	pling Point	Within A Wetla	nd? ☑ Yes □ No
Remarks:	Statewide	drought									
LIVEROLOGY	,										
HYDROLOGY		-1(OL L.)			•	\					
	• •	ators (Check here i	if indicators	s are not	present				Socondary		
<u>Primar</u> D	<u>ry.</u> ] A1 - Surface	Water		П	B9 - Wate	er-Stained	Leaves		<u>Secondary</u> □	<u>.</u>   B6 - Surface Soil	Cracks
	☐ A2 - High Wa				B13 - Aqւ	ıatic Faur	а			B10 - Drainage F	
_	☑ A3 - Saturati				B15 - Mar					B16 - Moss Trim	
	☑ B1 - Water N □ B2 - Sedime				C1 - Hydr C3 - Oxid		ospheres on Living Roots			C2 - Dry-Season   C8 - Crayfish Bu	
	☐ B3 - Drift De	•					educed Iron			•	/isible on Aerial Imagery
	☐ B4 - Algal Ma						eduction in Tilled Soils			D1 - Stunted or S	
	☐ B5 - Iron De <sub>l</sub> ☐ B7 - Inundati	posits ion Visible on Aerial Ima	agery	_	C7 - Thin Other (Ex					l  D2 - Geomorphio l  D3 - Shallow Aqu	
		y Vegetated Concave S	0 ,	H	Other (LX	ріант ін тх	emarks)			D4 - Microtopogr	
	•	, ,								D5 - FAC-Neutra	-
Field Observ	ations:										
Surface Wate	er Present?	☐ Yes ☐ No	Depth:		(in.)			Wetland Hy	drology P	resent?	l Yes □ No
Water Table F		☐ Yes ☐ No	Depth:		(in.)			Wettaria riy	arology i		1 105 🗀 140
Saturation Pre	esent?	☑ Yes 🔲 No	Depth:	8	(in.)						
Describe Reco	rded Data (str	ream gauge, monitori	ng well, aer	ial photo	s, previous	s inspect	ions), if available:		N/A		
Remarks:	Statewide	drought									
SOILS											
Map Unit Nam		Telos-Chesuncook			<u> </u>		Series Drainage Class	: somewhat p	oorly draine	ed	
Taxonomy (Su	<del></del>	Loamy, isotic, frigio	·								
		the depth needed to document the in	dicator or confirm the		icators.) (Type: C	=Concentration	, D=Depletion, RM=Reduced Matrix, CS=0		ains; Location: PL=P	Pore Lining, M=Matrix)	Toytura
Top	Bottom	l lawiman	0-1/	Matrix	1 0/		O-1 (NA-:-4)	Mottles	T	Lasation	Texture (e.g. clay, sand, loam)
Depth	Depth 15	Horizon	Color (	<del>,                                     </del>	%		Color (Moist)	%	Туре	Location	, ,
0 15	18		10YR 10YR	3/1 4/1	100			<del></del>	<del> </del>		fine sandy loam
15	_				100			<del></del>			fine sandy loam
								<del></del>			<del></del>
					 				<del></del>		
  NRCS Hydrid							 				
•	  c Soil Field I			 ators are	  not prese	 ent □:	  	   Indicato	  rs for Proble	  ematic Soils <sup>1</sup>	
•	 c Soil Field II ☐ A1- Histosol ☐ A2 - Histic E	  ndicators (check he pipedon		 ators are	  not prese S8 - Polyo S9 - Thin	 ent □: value Belo Dark Sur	ow Surface (LRR R, MLRA 149B)	   Indicato	  rs for Proble A10 - 2 cm A16 - Coas	  ematic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR	  149B) R K, L, R)
	 c Soil Field II ☐ A1- Histosol ☐ A2 - Histic E ☐ A3 - Black H	  ndicators (check he pipedon istic		 ators are	  not prese S8 - Polyo S9 - Thin F1 - Loan	ent 다: value Belo Dark Suri ny Mucky		   Indicato	  rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M		  149B) R K, L, R)
	 c Soil Field II  ☐ A1- Histosol ☐ A2 - Histic E ☐ A3 - Black H ☐ A4 - Hydroge	 ndicators (check he pipedon istic en Sulfide		 ators are	not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	ent		   Indicato	  rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S		149B) R K, L, R) (LRR K, L, R)
	 c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie	 ndicators (check he pipedon istic en Sulfide	 ere if indica	 ators are	  not prese S8 - Polyo S9 - Thin F1 - Loan	ent		   Indicato	  rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva		149B) R K, L, R) (LRR K, L, R)
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface	 ere if indica	tors are	not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		   Indicato	  rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-M		149B) R K, L, R) (LRR K, L, R) E (LRR K, L) L) SS (LRR K, L, R)
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy II	ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	 ere if indica	 ators are	not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		   Indicato	  rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-M F19 - Piedn		
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy II  S4 - Sandy II	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix	 ere if indica	tors are	not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		   Indicato	rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic		
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy II	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	 ere if indica	tors are	not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		   Indicato	rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic		
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy I  S4 - Sandy I  S5 - Sandy F  S6 - Stripped	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	 ere if indica	tors are	not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		  Indicato	rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic TF2 - Red I TF12 - Very Other (Expl		
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy I  S4 - Sandy I  S5 - Sandy F  S6 - Stripped	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox d Matrix	 ere if indica	tors are	not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		Indicato	rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic TF2 - Red I TF12 - Very Other (Expl		
Restrictive Layer	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy I  S4 - Sandy I  S5 - Sandy F  S6 - Stripped  S7 - Dark St	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox d Matrix	 ere if indica	tors are	not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		Indicato	rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic TF2 - Red I TF12 - Very Other (Expl of hydrophytic vege or problematic.		
	c Soil Field II  A1- Histosol  A2 - Histic E  A3 - Black H  A4 - Hydroge  A5 - Stratifie  A11 - Deplet  A12 - Thick I  S1 - Sandy I  S4 - Sandy I  S5 - Sandy F  S6 - Stripped  S7 - Dark St	ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox d Matrix urface (LRR R, MLRA 149B)	 ere if indica	ators are	 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo F8 - Redo	ent :value Belo Dark Suriny Mucky ny Gleyed eted Matrox Dark Seted Dark		Indicato	rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic TF2 - Red I TF12 - Very Other (Expl of hydrophytic vege or problematic.		

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W61El Sample Point Wetland

<b>VEGETATION</b>	(Species identified in all uppercase are non-native	e species.	)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	Species Name	% Cover	<u>Dominant</u>	<u>Ind.Status</u>	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 65 $\times 1 = 65$
	Total Cover =	0			FACW spp. 20 x 2 = 40
					FAC spp. 15 x 3 = 45
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 0 x 4 = 0
1.	Alnus incana	5	N	FACW	UPL spp. $0 \times 5 = 0$
2.	Acer rubrum	5	N	FAC	
3.					Total 100 (A) 150 (B)
4.					(B)
5.					Prevalence Index = B/A = 1.500
6.					1.500
7.	_ <del></del>				
	<del></del>				Hydrophytic Vegetation Indicators
8.	<b></b>				Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cover =	10			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Onoclea sensibilis	5	N	FACW	* Indicators of bydric soil and watland bydralogy must be
2.	Osmunda claytoniana	10	Ν	FAC	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Calamagrostis canadensis	30	Υ	OBL	present, unless distarbed of problematio.
4.	Carex stricta	25	Υ	OBL	Definitions of Vegetation Strata:
5.	Spiraea alba	10	N	FACW	
6	Typha angustifolia	10	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.			<del></del>		
15.			<b></b>		Woody Vines - All woody vines greater than 3.28 ft. in height.
15.	Total Cavana		<b></b>		VVOOLY VIIIes 17 in Westly Villes greater than election in Height
	Total Cover =	90			
Woody Vine Stratu	um (Plot size: 10 meter radius)				
1.					
2.					
3.					<b>Hydrophytic Vegetation Present</b> ☑ Yes ☐ No
4.					
5.	<b></b>				
	Total Cover =	0			
Remarks:					
Additional Rer	marks:				
7 10.0.10.0.10.1					



I Project/Sije.	Western Mai	ne Renewable Energy l	Project				Project #·	194-7130		Date:	09/09/20
Project/Site: Applicant:		ne Renewables, LLC	rioject				r roject π.	134-7 130		County:	Somerset
		He Reflewables, LLC		Investi	igator #2:					State:	
Investigator #			450/ 1		igator #2:		//////// Classification				ME
Soil Unit:		ncook association, 3 to	15% slopes		al Daliaf		/I/WWI Classification	: Opiand		Wetland ID:	W63EI
Landform:	Terrace	1 (4 1			al Relief:			5 .	NIAD OO	Sample Point:	Upland
Slope (%):	See topo map		45.147121		ongitude:				: NAD 83	1	
		ditions on the site ty	•			no, explain	·		No	1	
_		or Hydrology □ sig	•				Are normal circumst	•	nt?		
		or Hydrology □ nat	urally prob	lematic?			□ Yes	☑ No			
SUMMARY O	F FINDINGS										
Hydrophytic V	egetation Pre	sent?		☐ Yes	. ☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydro	ology Present	:?		□ Yes	s ☑ No			Is This Sam	pling Point	Within A Wetla	nd? □ Yes ☑ No
Remarks:	Statewide of								•		
<b>HYDROLOGY</b>											
Wetland Hyd	rology Indic	ators (Check here i	f indicators	are not	present	\cutilde{\c					
Primar	• •	,			•	_			Secondary:		
					B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	
	A2 - High Wa				B13 - Aqı					B10 - Drainage F	
					B15 - Mai				_	B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
l	B2 - Sedimei B3 - Drift De	•					ospheres on Living Roots educed Iron			C8 - Crayfish Bu	riows /isible on Aerial Imagery
	B4 - Algal Ma	•		_			eduction in Tilled Soils			D1 - Stunted or S	
	_				C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima	agery		Other (Ex					D3 - Shallow Aqu	
		y Vegetated Concave S			,	•	,			D4 - Microtopogr	
										D5 - FAC-Neutra	al Test
Field Observa	ations:										
Surface Water	r Present?	☐ Yes ☑ No	Depth:		(in.)			\Matland III	rduolossis Du		l Vaa     □    Na
Water Table F	Present?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	arology Pr	resent?	I Yes ☑ No
Saturation Pre	esent?	☐ Yes ☑ No	Depth:		(in.)						
Dosariba Basa	rdad Data (str	eam gauge, monitori	·			c incoccti	one) if available:		N/A		
Remarks:	Statewide of		ing wen, acri	iai priotos	s, previous	з пізресц			14/7 (		
	Statewice (	JIOUGHL									
rtemarks.		a. 0 a.g									
		o.g									
SOILS		u.g									
SOILS Map Unit Nam	ne:	Telos-Chesuncook ass	-			S	Series Drainage Class	: Well Draine	ed		
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	lohumod	ds		•				
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	lohumod	ds		Series Drainage Class  D=Depletion, RM=Reduced Matrix, CS=			ore Lining, M=Matrix)	
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	lohumod	ds		•			ore Lining, M=Matrix)	Texture
SOILS  Map Unit Nam Taxonomy (Su	ne: ubgroup): <b>iption</b> (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Hap	olohumod e absence of indi Matrix	ds		•	:Covered/Coated Sand Gr		ore Lining, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su  Profile Descr Top	ne: ubgroup): iption (Describe to Bottom	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind	Lithic Hap	olohumod e absence of indi Matrix	ds icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr	rains; Location: PL=Po	1	<b>→</b>
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth	ne: ubgroup): iption (Describe to Bottom Depth	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind Horizon	Lithic Hap	lohumoo absence of indi Matrix Moist)	ds icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=	Covered/Coated Sand Gr	Type	Location	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind  Horizon  a	Color (I	Matrix Moist) 3/3	ds icators.) (Type: C	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Mottles %	Type	Location 	(e.g. clay, sand, loam)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigio the depth needed to document the inc  Horizon  a	Color (I	Matrix Moist) 3/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=	Mottles %	Type	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind  Horizon  a	Color (I 10YR	Matrix Moist) 3/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a	Color (I 10YR	e absence of indice absence of	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=	-Covered/Coated Sand Gr Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind  Horizon  a	Color (I 10YR	Matrix Moist) 3/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigio the depth needed to document the inc  Horizon a	Color (I 10YR	Matrix Moist) 3/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind  Horizon  a	Color (I 10YR	Matrix Moist) 3/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne:  ubgroup):  iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind  Horizon  a	Color (I 10YR	Matrix Moist) 3/3 ttors are	% 100 not prese	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a	Color (I 10YR	Matrix Moist) 3/3 ttors are	% 100 not prese	=Concentration	D=Depletion, RM=Reduced Matrix, CS=	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the ind  Horizon  a  andicators (check he	Color (I 10YR	Matrix Moist) 3/3 ttors are	% 100 not presesses S8 - Polyty S9 - Thin	=Concentration	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Mottles %	Type	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr Top Depth 0 NRCS Hydric	ne: ubgroup): iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigio the depth needed to document the inc  Horizon a andicators (check he	Color (I 10YR	olohumoo e absence of indi Matrix Moist) 3/3 tors are	% 100 not presessed S8 - Polyting S9 - Thin F1 - Loan	=Concentration      ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigio the depth needed to document the inc  Horizon  a  ndicators (check he pipedon istic en Sulfide d Layers	Color (I 10YR ere if indica	Matrix Moist) 3/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	=Concentration	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam (149B) R K, L, R) ( (LRR K, L, R)
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth 0 NRCS Hydric	ne:  lbgroup):  iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a  adicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface	Color (I 10YR ere if indica	Matrix Moist) 3/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent ©: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark S	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne:  lbgroup):  iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a  ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface	Color (I 10YR ere if indica	olohumoo e absence of indi Matrix Moist)  3/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne:  ubgroup):  iption (Describe to Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a  andicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	Color (I 10YR ere if indica	Matrix Moist) 3/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a       ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix	Color (I 10YR ere if indica	olohumoo e absence of indi Matrix Moist)  3/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	ne: Libgroup): Liption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigio the depth needed to document the inc  Horizon  a         andicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Color (I 10YR ere if indica	olohumoo e absence of indi Matrix Moist)  3/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a         andicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox I Matrix	Color (I 10YR ere if indica	olohumoo e absence of indi Matrix Moist)  3/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigio the depth needed to document the inc  Horizon  a         andicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Color (I 10YR ere if indica	olohumoo e absence of indi Matrix Moist)  3/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0 NRCS Hydric	iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a       ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox Matrix Irface (LRR R, MLRA 149B)	Color (I 10YR ere if indica	absence of indice absence of indice absence of indice Matrix  Moist)  3/3          -	% 100	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) Dils (MLRA 149B) 145, 149B) rface y must be present, unless
SOILS  Map Unit Nam Taxonomy (Su Profile Descr  Top Depth  0	iption (Describe to Bottom Depth 15	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  a         andicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox I Matrix	Color (I 10YR ere if indica	olohumoo e absence of indi Matrix Moist)  3/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W63El Sample Point Upland

VEGETATION	(Species identified in all upperca	ase are non-native	e species	.)		
	ot size: 10 meter radius)					
	<u>Species Name</u>	-		Dominant	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum		5	N	FAC	
2.	Betula alleghaniensis		5	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.	Betula papyrifera		5	N	FACU	
4.						Total Number of Dominant Species Across All Strata: 2 (B)
5.						
6.	<b></b>					Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.						
8.	<b></b>					Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.		<b>T</b> ( 1 0				OBL spp. 0 x 1 = 0
		Total Cover =	15			FACW spp. 1
2 " /Ol Otm	(5) ( ) ( 5 (s) 4 (s) madius)					FAC spp. 11
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)		4	N I	E 4 C \ 4 /	FACU spp. 35
1.	Alnus incana		1	N	FACW	UPL spp 0
2.	Acer rubrum		1	N	FAC	T 1 1 47 (A) 475 (D)
3.						Total(A)(B)
4.	<b></b>					Decoration of the last = D/A = 9.700
5.						Prevalence Index = B/A = 3.723
6.						
7.	<b></b>					Herdranbutia Vanatatian Indiaatava.
8.						Hydrophytic Vegetation Indicators:
9.	<b></b>					☐ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.	<b></b>	Total Cover =				☐ Yes ☐ No Dominance Test is > 50%
ı		Total Cover =	2			☐ Yes ☐ No Prevalence Index is ≤ 3.0 *
Li I Otrativa (Dia	· · · · · · · · · · · · · · · · · · ·					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Pio	t size: 2 meter radius)  Viola palmata		5	N	FACU	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
2.	Viola palmata  Maianthemum canadense		10	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Uvularia sessilifolia		10	<u>т</u> Ү	FACU	present, unless disturbed or problematic.
4.	Symphyotrichum laeve		5	 N	FACU	Definitions of Vegetation Strata:
5.						Delilitions of Vegetation Strata.
6	 					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	<u></u>					height (DBH), regardless of height.
8.	 					
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
11.						
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
 		Total Cover =	30			
		TOTAL OCTO	00			
Woody Vine Stratu	um (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present ☐ Yes ☑ No
4.						
5.						
		Total Cover =	0			
Remarks:					-	
Additional Ren	marks:					
Additional	na no					



Project/Site:	Western Mair	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC	,				<b>,</b>			County:	Somerset
Investigator #1		,		Investi	igator #2:					State:	ME
Soil Unit:	-	ncook association, 3 to	15 percent		. 9 - 1 - 1		/I/WWI Classification:	· PFM		Wetland ID:	W63EI
Landform:	Terrace	noon according, o to	ro porcorn	Loc	al Relief:		in vivi olacomoalion.			Sample Point:	Wetland
Slope (%):	See topo map	Latituda:	45.147085		ongitude:		2/1	Datum:	NAD 83	Cample 1 oint.	Wettana
- ' '		ditions on the site ty						☐ Yes ☑			
						no, explain i	•			-	
•		or Hydrology □ sig	•				Are normal circumst	•	ι?		
		or Hydrology 🏻 nat	urally prob	lematic?			□ Yes	☑ No			
SUMMARY OF	FINDINGS										
Hydrophytic Ve	getation Pres	sent?		Yes	□ No			Hydric Soils	Present?		
Wetland Hydro	logy Present	?		Yes	s 🗆 No			Is This Sam	pling Point \	Within A Wetlar	nd? ☑ Yes □ No
Remarks:	Statewide c	drought									
HYDROLOGY											
	ology Indica	ators (Check here i	f indicators	are not	nresent	Ъ					
Primary	•	ators (Check here i	i ilidicators	ale not	present				Secondary:		
		Water		П	B9 - Wate	er-Stained	Leaves		-	B6 - Surface Soil	Cracks
	A2 - High Wa			_	B13 - Aqu				_	B10 - Drainage P	
	A3 - Saturatio				B15 - Mai					B16 - Moss Trim	
	B1 - Water M	larks			C1 - Hydr	rogen Sulfi	de Odor			C2 - Dry-Season	Water Table
	B2 - Sedimer	•					spheres on Living Roots			C8 - Crayfish Bur	
	B3 - Drift Dep			_			educed Iron				isible on Aerial Imagery
	B4 - Algal Ma			_			eduction in Tilled Soils			D1 - Stunted or S	
l H	B5 - Iron Dep	oosits on Visible on Aerial Ima	ngory.	_	C7 - Thin					D2 - Geomorphic D3 - Shallow Aqu	
l		Vegetated Concave S		님	Other (Ex	apiaiii iii Ne	eniaiks)			D4 - Microtopogra	
"	Bo - oparacry	vegetated contains e	dilacc							D5 - FAC-Neutral	
Field Observa	tions:										
			Б "		(!:- \						
Surface Water		☑ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent? ☑	Yes □ No
Water Table Pi		☐ Yes ☑ No	Depth:		(in.)			•	0,		
Saturation Pres	sent?	☐ Yes  ☑ No	Depth:		(in.)						
Describe Record	ded Data (stre	eam gauge, monitorii	ng well, aeri	ial photos	s, previous	s inspecti	ons) if available:		N/A		
				•	, I	o mopoou	orioj, ii avaliabio.				
Remarks:	Statewide c	drought.			· ·	op-ooi.	ono, n available.				
Remarks:	Statewide o	drought.			<u></u>	о птороск	ono), ii avallable.				
	Statewide o	drought.		·			ono), ii avallable.				
SOILS			ciation 3 to 1		, I		·	· somewhat n		od.	
SOILS Map Unit Name	e:	Telos-Chesuncook asso	-	5 percent	•	S	eries Drainage Class:	: somewhat p		ed	
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup):	Telos-Chesuncook asso Loamy, isotic, frigid	l, shallow A	5 percent	plorthods	S	eries Drainage Class:	·	oorly draine		
SOILS Map Unit Name Taxonomy (Sul	e: bgroup): ption (Describe to t	Telos-Chesuncook asso Loamy, isotic, frigid	l, shallow A	5 percent	plorthods	S	·	Covered/Coated Sand Gra	oorly draine		Tankuna
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): <b>ption</b> (Describe to the Bottom	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc	, shallow A	5 percent quic Ha absence of indi Matrix	plorthods icators.) (Type: C	S	Peries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	oorly draine	ore Lining, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sul	e: bgroup): ption (Describe to t	Telos-Chesuncook asso Loamy, isotic, frigid	, shallow A dicator or confirm the Color (I	5 percent Aquic Ha absence of indi Matrix Moist)	plorthods	S =Concentration,	Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	oorly draine		Texture (e.g. clay, sand, loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): <b>ption</b> (Describe to the Bottom	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc	, shallow A	5 percent quic Ha absence of indi Matrix	plorthods icators.) (Type: C	S	Peries Drainage Class:  D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	oorly draine	ore Lining, M=Matrix)	
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth	e: bgroup): ption (Describe to the Bottom Depth	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc	, shallow A dicator or confirm the Color (I	5 percent Aquic Ha absence of indi Matrix Moist)	plorthods icators.) (Type: C	S =Concentration,	Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra  Mottles	oorly draine  ins; Location: PL=Po	re Lining, M=Matrix)  Location	(e.g. clay, sand, loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to the late of	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I	5 percent Aquic Har absence of indi Matrix Moist) 3/1	plorthods icators.) (Type: C	S=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  6/8	Covered/Coated Sand Gra  Mottles  % 5	oorly draine  ins; Location: PL=Pc  Type  C	Location PL	(e.g. clay, sand, loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	bgroup): ption (Describe to the Bottom Depth 10	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I	5 percent Aquic Ha absence of indi Matrix Moist) 3/1	plorthods icators.) (Type: C	S=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  6/8  5/1	Covered/Coated Sand Gra  Mottles  %  5  35	oorly draine  ins; Location: PL=Po  Type  C  D	Location PL	(e.g. clay, sand, loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	bgroup): ption (Describe to the Depth	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I	5 percent Aquic Ha absence of indi Matrix Moist) 3/1	plorthods icators.) (Type: C	S=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1	Covered/Coated Sand Gra  Mottles  % 5 35	oorly draine  ins; Location: PL=Po  Type  C  D	Location PL	(e.g. clay, sand, loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to the second point of the second poin	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I	5 percent Aquic Hap absence of indi Matrix Moist) 3/1	plorthods icators.) (Type: C	S=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  6/8  5/1	Mottles % 5 35	oorly draine  Type  C  D	Location PL M	(e.g. clay, sand, loam silt loam   
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to the second point of the second poin	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Hara Advic Hara A	plorthods icators.) (Type: C	SE=Concentration,  10YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1	Mottles % 5 35	oorly draine  Type C D	Location PL M	(e.g. clay, sand, loam silt loam    
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	bgroup): ption (Describe to the state of the	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	Color (I	5 percent Aquic Ha absence of indi Matrix Moist) 3/1	plorthods icators.) (Type: C	Seconcentration,  10YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  6/8  5/1	Mottles % 5 35	oorly draine	Location PL M	(e.g. clay, sand, loam silt loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to the second point of the second poin	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Hara Advic Hara A	plorthods icators.) (Type: C	SE=Concentration,  10YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1	Mottles % 5 35	oorly draine  Type C D	Location PL M	(e.g. clay, sand, loam silt loam    
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to the second point) Bottom Depth 10	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Hap absence of indi Matrix Moist) 3/1 tors are	plorthods icators.) (Type: C	Seconcentration,  10YR 5Y	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1	Mottles % 5 35 Indicator	Type C D rs for Proble	Location PL M matic Soils 1	(e.g. clay, sand, loam silt loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to the strength of th	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Hap absence of indi Matrix Moist) 3/1 tors are	plorthods icators.) (Type: C	S=Concentration,  10YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1 w Surface (LRR R, MLRA 149B)	Mottles % 5 35 Indicator	Type C D s for Proble	Location PL M matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam silt loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to the state of the	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon  andicators (check he	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Ha absence of indi Matrix Moist)  3/1     tors are	plorthods icators.) (Type: Comparison of the com	SE=Concentration,  10YR 5Y ent	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Mottles % 5 35 Indicator	Type C D s for Proble A10 - 2 cm	Location PL M matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRF	(e.g. clay, sand, loam silt loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to the strength of th	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon adicators (check he	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Hara Aduic Hara Advice Har	plorthods icators.) (Type: Co	10YR 5Y value Belo Dark Surf	Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Mottles % 5 35 Indicator	Type C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi	Location PL M matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat	(e.g. clay, sand, loam silt loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	bgroup):  ption (Describe to the strength of t	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon  adicators (check he bipedon stic en Sulfide	, shallow A dicator or confirm the Color (I 10YR	5 percent Aquic Hara Aduic Hara Advice Har	plorthods icators.) (Type: Comparison of Com	10YR 5Y value Belo Dark Surf ny Mucky	Depletion, RM=Reduced Matrix, CS=0  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles % 5 35 Indicator	Type C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Me S7 - Dark S	Location PL M matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam silt loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon  adicators (check he bipedon stic en Sulfide	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Hara Aduic Hara Advice Har	plorthods icators.) (Type: Co	10YR 5Y value Belo Dark Surf ny Mucky	Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Mottles % 5 35 Indicator	Type C D s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval	Location PL M matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat	(e.g. clay, sand, loam silt loam (LRR K, L, R) (LRR K, L)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon  adicators (check he pipedon stic en Sulfide d Layers ed Below Dark Surface	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Hara Advic Hara A	plorthods icators.) (Type: Co  % 60 not prese S8 - Polye S9 - Thin F1 - Loan F2 - Loan F3 - Deple	10YR 5Y value Belo Dark Surf ny Mucky I	Depletion, RM=Reduced Matrix, CS=0  Color (Moist) 6/8 5/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Mottles % 5 35 Indicator	Type C D s for Proble A10 - 2 cm M A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M	Location PL M Muck (LRR K, L, MLRA Prairie Redox (LRR Lucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I	(e.g. clay, sand, loam) silt loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to the street of th	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha absence of indi Matrix Moist)  3/1      tors are	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 5 35 Indicator	Type C D s for Proble A10 - 2 cm M A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M	Location PL M matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, L)	(e.g. clay, sand, loam) silt loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 10 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha absence of indi Matrix Moist)  3/1      tors are	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 5 35 Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA Lucky Peat of Peat ourface (LRR K, L, M) ue Below Surface ark Surface (LRR K, L) langanese Masses ont Floodplain Soils Spodic (MLRA 144A, 4)	(e.g. clay, sand, loam silt loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	Bottom Depth 10 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S4 - Sandy G S5 - Sandy R	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha absence of indi Matrix Moist)  3/1      tors are	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 5 35 Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I langanese Masses ont Floodplain Soils Spodic (MLRA 144A, Parent Material	(e.g. clay, sand, loam silt loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 10	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha absence of indi Matrix Moist)  3/1      tors are	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 5 35 Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA L) Prairie Redox (LRR L) Location PL M M Muck (LRR K, L, MLRA L) Locky Peat of Peat Locky Peat of Pe	(e.g. clay, sand, loam silt loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 10	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha absence of indi Matrix Moist)  3/1      tors are	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 5 35 Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, L danganese Masses ont Floodplain Soils Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks)	(e.g. clay, sand, loam silt loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 10	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha absence of indi Matrix Moist)  3/1      tors are	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 5 35 Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA L) Prairie Redox (LRR L) Location PL M M Muck (LRR K, L, MLRA L) Locky Peat of Peat Locky Peat of Pe	(e.g. clay, sand, loam silt loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	Bottom Depth 10 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Sui	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha Advic Ha Ad	plorthods icators.) (Type: Comparison of the com	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 5 35 Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, L danganese Masses ont Floodplain Soils Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks)	(e.g. clay, sand, loam silt loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	Bottom Depth 10 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Sui	Telos-Chesuncook asso Loamy, isotic, frigid the depth needed to document the inc  Horizon  ndicators (check he bipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface Muck Mineral Bleyed Matrix Redox Matrix rface (LRR R, MLRA 149B)	, shallow A dicator or confirm the Color (I 10YR ere if indica	5 percent Aquic Ha Advic Ha Ad	plorthods icators.) (Type: O  % 60 not prese S8 - Polye S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple F8 - Redo	10YR 5Y value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  6/8  5/1     w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  % 5 35 Indicator  Indicator	Type C D	Location PL M matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I langanese Masses ont Floodplain Soils Spodic (MLRA 144A, Parent Material Shallow Dark Surian in Remarks) ation and wetland hydrology	(e.g. clay, sand, loam silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless

## WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

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

<b>VEGETATION</b>	(Species identified in all uppercase are non-native	species	s.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Fraxinus nigra	10	Y	<b>FACW</b>	
2.	Acer rubrum	5	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 6 (B)
5.					(=)
					Develop to the Charles That Are ORL EACIAL or EAC: 100 0% (A/R)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 35 x 1 = 35
	Total Cover =	15			FACW spp. 112 x 2 = 224
					FAC spp. 10 x 3 = 30
Sanling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. $0 \times 4 = 0$
1	Alnus incana	5	Υ	FACW	UPL spp. $0   x   5 = 0$
2.		5	 Y	FAC	υτι ερφ υ _ Λ υ = υ
	Acer rubrum	5			
3.					Total 157 (A) 289 (B)
4.					
5.					Prevalence Index = B/A = 1.841
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.	_ <del></del>				
10.		10			
	Total Cover =	10			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Calamagrostis canadensis	30	Υ	OBL	* Indicators of budric soil and watland budralogy must be
2.	Phalaris arundinacea	80	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Scirpus cyperinus	5	N	OBL	present, unless disturbed of problematic.
4.	Spiraea alba	10	N	FACW	Definitions of Vegetation Strata:
5.	Onoclea sensibilis	2	N	FACW	
6	Symphyotrichum novae-angliae	5	N	FACW	Tree - Westernstein 2 in (7.0 mm) or margin dismatch at breast
7.					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
	<del></del>				
8.					2 Weeds please than 2 in DPH and greater than 2.09 ft
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
10.	Total Covers	420			vvoody villes - / iii ii ee green ii ii e ii ii ii e ii ii ii e ii ii ii
	Total Cover =	132			
Woody Vine Stratu	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					
5.					
<b>J</b> .	Total Cover =	0			
Remarks:	TOLAT COVET -	U			
Remarks.					
<b>Additional Ren</b>	marks:				



Project/Site:	Western Mai	ne Renewable Energy f	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC					•			County:	Somerset
Investigator #1		····, —— ·		Investi	gator #2:					State:	ME
			450/ slaves	1117030	gator #2.	N I \ A	//////// Classification	· I Inland		1	
Soil Unit:		ncook association, 3 to	15% slopes				/I/WWI Classification:	. Opiano		Wetland ID:	W67EI
Landform:	Terrace			Loc	al Relief:	Linear				Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.145100		ongitude:			Datum:	NAD 83		
Are climatic/hy	drologic cond	ditions on the site ty	pical for this ti	me of ye	ar? (If no, e	xplain in rer	narks)	□ Yes ☑	No		
Are Vegetation	□. Soil □.	or Hydrology □ sig	nificantly distu	rbed?			Are normal circumst	ances present	?	1	
_		or Hydrology □ nat	•				□ Yes	☑ No			
		or riyarology in that	draily problem	iatio:			, 00				
SUMMARY OF											
Hydrophytic Ve	egetation Pre	sent?		☐ Yes				Hydric Soils I	Present?		☐ Yes ☑ No
Wetland Hydro	logy Present	:?		☐ Yes	✓ No			Is This Samp	ling Point \	Within A Wetlar	nd? 🗆 Yes 🗹 No
Remarks:	Statewide of	drought									
		3									
HVDDOL OOV											
HYDROLOGY											
Wetland Hydr	rology Indic	ators (Check here i	f indicators are	e not pre	sent ):	V					
Primary					,	_			Secondary:		
<u> </u>	A1 - Surface	Water			B9 - Wate	r-Stained	Leaves			B6 - Surface Soil	Cracks
I ==	A2 - High Wa			H	B13 - Aqu				_	B10 - Drainage P	
	A3 - Saturation			ī	B15 - Mar					B16 - Moss Trim	
	B1 - Water M			ī	C1 - Hydro	•				C2 - Dry-Season	
	B2 - Sedimei	nt Deposits			-	_	spheres on Living Roots			C8 - Crayfish Bur	
	B3 - Drift De	•					educed Iron			-	isible on Aerial Imagery
	B4 - Algal Ma	•		$\overline{\Box}$	C6 - Rece	nt Iron Re	eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron Dep				C7 - Thin					D2 - Geomorphic	Position
	B7 - Inundati	on Visible on Aerial Ima	gery		Other (Ex	olain in Re	emarks)			D3 - Shallow Aqu	iitard
	B8 - Sparsely	y Vegetated Concave S	urface							D4 - Microtopogra	aphic Relief
										D5 - FAC-Neutral	l Test
Field Observa	tions:										
			Б. 11		/: \						
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes ☑ No
Water Table Pi		☐ Yes  ☑ No	Depth:		(in.)			•	0,		
Saturation Pres	sent?	☐ Yes  ☑ No	Depth:		(in.)						
Describe Record	ded Data (etr	eam gauge, monitorii	na well perial r	hotos ni	avious ins	nections	l if available:		N/A		
	·		ig well, actial p	niotos, pi	CVIOUS IIIS	pections	), ii avallable.		14// \		
		1 1 1									
Remarks:	Statewide of	drought									
Remarks:	Statewide o	drought									
SOILS	Statewide o	drought									
SOILS			sociation 3 to 15	% slopes		S	eries Drainage Class	: Well Drained			
SOILS Map Unit Name	e:	Telos-Chesuncook ass				S	eries Drainage Class	: Well Drained			
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Haploh	umods			<u> </u>				
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup): <b>ption</b> (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Haploh	umods nce of indicators	.) (Type: C=Conc		eries Drainage Class	ed/Coated Sand Grains; Lc		ng, M=Matrix)	Total
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup):	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Haploh licator or confirm the abser	umods nce of indicators ⁄/atrix	•		pletion, RM=Reduced Matrix, CS=Covere	ed/Coated Sand Grains; Lo		<b>.</b>	Texture
SOILS  Map Unit Name Taxonomy (Sul	e: bgroup): <b>ption</b> (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	Lithic Haploh	umods nce of indicators ⁄/atrix	.) (Type: C=Conc		<u> </u>	ed/Coated Sand Grains; Lc		ng, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): <b>ption</b> (Describe to Bottom	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc	Lithic Haploh licator or confirm the abser	umods nce of indicators ⁄/atrix	•		pletion, RM=Reduced Matrix, CS=Covere	ed/Coated Sand Grains; Lo	ocation: PL=Pore Lini	<b>.</b>	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): <b>ption</b> (Describe to Bottom Depth 6	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1	Lithic Haploh licator or confirm the abser  Color (Machine 10YR	umods nce of indicators Matrix oist) 5/3	% 100	entration, D=De	pletion, RM=Reduced Matrix, CS=Covere  Color (Moist)	ed/Coated Sand Grains; Lo	Type	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 12	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2	Lithic Haploh licator or confirm the abser  Color (Mathematical Street Colo	umods nce of indicators Matrix oist) 5/3 5/2	% 100 100	entration, D=De	pletion, RM=Reduced Matrix, CS=Covere	ed/Coated Sand Grains; Lo	ocation: PL=Pore Lini	Location  	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): <b>ption</b> (Describe to Bottom Depth 6	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1	Lithic Haploh licator or confirm the abser  Color (Machine 10YR	umods nce of indicators Matrix oist) 5/3	% 100	entration, D=De	pletion, RM=Reduced Matrix, CS=Covere  Color (Moist)	ed/Coated Sand Grains; Lo	Type	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 12	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2	Lithic Haploh licator or confirm the abser  Color (Mathematical Street Colo	umods nce of indicators Matrix oist) 5/3 5/2	% 100 100	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location  	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3	Lithic Haploh licator or confirm the abservable  Color (Management of the second of th	umods nce of indicators Matrix oist) 5/3 5/2 5/2	% 100 100 100	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo	Type	Location   	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators Matrix oist) 5/3 5/2 5/2	% 100 100 100 	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators Matrix oist) 5/3 5/2 5/2	% 100 100 100  	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS  Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators Matrix oist) 5/3 5/2 5/2	% 100 100 100   	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location    	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1  2  3	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators Matrix oist) 5/3 5/2 5/2	% 100 100 100   	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators Matrix oist) 5/3 5/2 5/2	% 100 100 100   	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1  2  3	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100     present	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type s for Proble	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 18 Soil Field Ir	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 100 present S8 - Polyv	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 18 Soil Field Ir A1- Histosol A2 - Histic E	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin	entration, D=De	Color (Moist)	ed/Coated Sand Grains; Lo  Mottles  %	Type s for Proble A10 - 2 cm	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 6 12 18 Soil Field In A1- Histosol A2 - Histic E	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	ed/Coated Sand Grains; Los  Mottles  %	Type s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Mi	Location Muck (LRR K, L, MLRA Prairie Redox (LRF	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12 NRCS Hydric	e: bgroup): ption (Describe to  Bottom Depth 6 12 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black H A4 - Hydroge	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam	entration, D=De	Pletion, RM=Reduced Matrix, CS=Covered  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	ed/Coated Sand Grains; Lo  Mottles  %	Type s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Mt S7 - Dark S	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black H  A4 - Hydroge A5 - Stratified	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ACC (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	ed/Coated Sand Grains; Lo  Mottles  %	Type s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA I) Prairie Redox (LRR UCKy Peat of Peat	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 18 Soil Field In A1- Histosol A2 - Histic E  A3 - Black H  A4 - Hydroge A5 - Stratified	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1  2  3  ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface	ed/Coated Sand Grains; Lo  Mottles  %	Type  s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Mt S7 - Dark S S8 - Polyval S9 - Thin Da	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR LCKy Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I, K)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L) L)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	e: bgroup): ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators  // Atrix oist) 5/3 5/2 5/2 s are not	% 100 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Bottom Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Los  Mottles  %	Type  s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR UCKY Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	e: bgroup): ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Los  Mottles  %	Type  s for Proble A10 - 2 cm I A16 - Coast S3 - 5cm Me S7 - Dark Se S8 - Polyval S9 - Thin Da F12 - Iron-Me F19 - Piedm TA6 - Mesic	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA L) Prairie Redox (LRR L) LUCKY Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I) langanese Masses ont Floodplain Soil	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	e: bgroup): ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type	Location  matic Soils  Muck (LRR K, L, MLRA Prairie Redox (LRR K, L, M) ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I, M) ue Below Surface sont Floodplain Soils Spodic (MLRA 144A, M)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam (LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type  s for Proble A10 - 2 cm II A16 - Coast S3 - 5cm Mi S7 - Dark Si S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location  matic Soils   Muck (LRR K, L, MLRA Prairie Redox (LRR LOCKY Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I langanese Masses ant Floodplain Soil Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
SOILS  Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1  2  3       ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox H Matrix	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type  s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Me S7 - Dark Se S8 - Polyval S9 - Thin Da F12 - Iron-Me F19 - Piedme TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA Prairie Redox (LRR k, L, M) ue Below Surface (LRR K, L) urface (LRR K, L, M) ue Below Surface (LRR K, L) anganese Masses ont Floodplain Soils Spodic (MLRA 144A, Parent Material Shallow Dark Sur	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12	bgroup):  ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1  2  3       ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox H Matrix	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type  s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Me S7 - Dark Se S8 - Polyval S9 - Thin Da F12 - Iron-Me F19 - Piedme TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location  matic Soils   Muck (LRR K, L, MLRA Prairie Redox (LRR LOCKY Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I langanese Masses ant Floodplain Soil Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12 NRCS Hydric	bgroup):  ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1  2  3       ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox H Matrix	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type  s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Me S7 - Dark Se S8 - Polyval S9 - Thin Da F12 - Iron-Me F19 - Piedme TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla of hydrophytic veget r problematic.	Location  matic Soils   Muck (LRR K, L, MLRA Prairie Redox (LRR LOCKY Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I langanese Masses ant Floodplain Soil Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 6 12	bgroup):  ption (Describe to Depth 6 12 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon  1 2 3 ndicators (check he pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Bleyed Matrix Redox Matrix Irface (LRR R, MLRA 149B)	Lithic Haploh licator or confirm the abser  Color (Matter) 10YR 10YR 2.5Y	umods nce of indicators //atrix oist) 5/3 5/2 5/2 s are not	% 100 100 100 present S8 - Polyv S9 - Thin F1 - Loam F2 - Loam F3 - Deple F6 - Redo F7 - Deple F8 - Redo	entration, D=De	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix K urface Surface Surface	ed/Coated Sand Grains; Lo  Mottles  %	Type  s for Proble A10 - 2 cm   A16 - Coast S3 - 5cm Me S7 - Dark Se S8 - Polyval S9 - Thin Da F12 - Iron-Me F19 - Piedme TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla of hydrophytic veget r problematic.	Location         matic Soils   Muck (LRR K, L, MLRA Prairie Redox (LRR LOCKY Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, I, M) ue Below Surface ark Surface (LRR K, I, M) are Masses and Floodplain Soils Spodic (MLRA 144A, Parent Material Shallow Dark Surfain in Remarks) ation and wetland hydrology	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless

TETRA TECH

Project/Site: Western Maine Renewable Energy Project Wetland ID: W67EI Sample Point Upland

<b>VEGETATION</b>	(Species identified in all uppercase	e are non-native sp	ecies.)			
Tree Stratum (Plo	t size: 10 meter radius)					
	<u>Species Name</u>		% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	-	5	N	FAC	
2.	Betula alleghaniensis		5	N	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.	Abies balsamea		5	N	FAC	· · · · · · · · · · · · · · · · · · ·
4.						Total Number of Dominant Species Across All Strata: 3 (B)
						Total Number of Bornmant opecies Across All Strata.
5.						
6.	<del></del>					Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp. 5 x 1 = 5
		Total Cover =	15			FACW spp. 0 x 2 = 0
						FAC spp. 15 x 3 = 45
Sanling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp. 52 x 4 = 208
1.	Rubus idaeus		10	Υ	FACU	UPL spp. $0   x   5 = 0$
						σε L spp
2.						T
3.	<del></del>					Total 72 (A) 258 (B)
4.						
5.						Prevalence Index = B/A = 3.583
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.						
10.		Total Cover -	10			
		Total Cover =	10			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
						☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Solidago canadensis		20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
2.	Rubus idaeus		10	Υ	FACU	present, unless disturbed or problematic.
3.	Calamagrostis canadensis		5	Ν	OBL	precent, amos distarbed of problematic.
4.	Symphyotrichum laeve		5	N	FACU	Definitions of Vegetation Strata:
5.	Maianthemum canadense		2	N	FACU	
6	Aralia nudicaulis		5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						
	<b></b>					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
9.	<b></b>					tall.
10.	<u></u>					
11.						
12.						<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.						woody plants less trian 3.20 it. tail.
14.						
15.						<b>Woody Vines</b> - All woody vines greater than 3.28 ft. in height.
		Total Cover =	47			
			7/			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(District 40 to 11 )					
vvoody Vine Strati	ım (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present ☐ Yes ☑ No
4.						
5.						
-		Total Cover =	0			
Remarks:		. 5.5 55751				
. Chiano.						
Additional Rer	narks:					



Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		ncook association, 3 to	15 percent s	•			/I/WWI Classification:	: PEM		Wetland ID:	W67EI
Landform:	Terrace	1 00 1			cal Relief:			Б. (	NAD 00	Sample Point:	Wetland
Slope (%):	See topo map		45.143541°		ongitude:				NAD 83 No	4	
		ditions on the site ty	•			no, explain	Are normal circumst			1	
•		or Hydrology □ sig or Hydrology □ nat	-				☐ Yes	.ances presen ☑No	l:		
SUMMARY OF		or riyarology in hat	draily prob	icmatio:							
Hydrophytic Ve		sent?		✓ Yes	s □ No			Hydric Soils	Present?		
Wetland Hydro	•			☑ Yes						Within A Wetlar	
Remarks:	Statewide of								<b>J</b>		
HYDROLOGY											
_	• •	<b>ators</b> (Check here i	f indicators	are not	present	Þ			0		
<u>Primary</u> □	<u>/:</u>	Water			B9 - Wate	er-Stained	Leaves		<u>Secondary:</u> □	B6 - Surface Soil	Cracks
	A2 - High Wa			_	B13 - Aqu				_	B10 - Drainage P	
	A3 - Saturation				B15 - Mai	•			_	B16 - Moss Trim	
	B1 - Water M B2 - Sedimer				C1 - Hydr C3 - Oxid	_	ae Odor espheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bur	
	B3 - Drift De	•					educed Iron			_	isible on Aerial Imagery
	B4 - Algal Ma			_			eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron Dep	oosits on Visible on Aerial Ima	anerv		C7 - Thin Other (Ex					D2 - Geomorphic D3 - Shallow Aqu	
		y Vegetated Concave S		Ч	TOTAL (EX	piairi iir i k	marko)			D4 - Microtopogra	
										D5 - FAC-Neutra	l Test
Field Observa	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pi	resent? ☑	l Yes □ No
Water Table P		☐ Yes ☑ No	Depth:	_	(in.)					_	_ 1.65
Saturation Pres	sent?	☑ Yes □ No	Depth:	8	(in.)						
Describe Record	ded Data (str	eam gauge, monitori	ng well, aer	ial photo	s, previous	s inspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
0011.0											
SOILS		T . O	. 1: 0.1	4.5			aniaa Duainana Class				
Map Unit Name Taxonomy (Su		Telos-Chesuncook ass Loamy, isotic, frigid					eries Drainage Class:	: somewnat po	oony draine	ea	
	<u> </u>	Luainy, isolic, inidia	i, Silaliow <i>F</i>		•					ore Lining M=Matrix)	
1 101110 2 00011	OLIOII (Describe to		dicator or confirm the	absence of ind	icators ) (Type: C	:=Concentration	D=Depletion_RM=Reduced_Matrix_CS=0	Covered/Coated Sand Gra	ins: Location: PL=Po		
Top			dicator or confirm the		icators.) (Type: C	E=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0		ins; Location: PL=Po	ore chilling, ivi–iviaulix)	Texture
Top Depth	Bottom		Color (	Matrix	icators.) (Type: C	=Concentration,		Covered/Coated Sand Grain Mottles %		Location	Texture (e.g. clay, sand, loam)
Top Depth 0		the depth needed to document the inc		Matrix	•	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Mottles	Type	1	
Depth	Bottom Depth	the depth needed to document the ind	Color (I	Matrix Moist)	%		Color (Moist)	Mottles %	Туре	Location	(e.g. clay, sand, loam)
Depth	Bottom Depth	the depth needed to document the ind  Horizon	Color (I	Matrix Moist)	%		Color (Moist)	Mottles % 	Type 	Location 	(e.g. clay, sand, loam)
Depth 0	Bottom Depth 18	the depth needed to document the ind  Horizon	Color (I 10YR	Matrix Moist) 2/1	% 100		Color (Moist)	Mottles %  	Type  	Location  	(e.g. clay, sand, loam) muck
Depth 0	Bottom Depth 18	the depth needed to document the ind  Horizon	Color (I 10YR	Matrix Moist) 2/1	% 100 		Color (Moist)	%	Type   	Location   	(e.g. clay, sand, loam) muck
Depth 0	Bottom Depth 18	the depth needed to document the ind  Horizon	Color (I 10YR  	Matrix Moist) 2/1	% 100  	  	Color (Moist)	Mottles	Type    	Location	(e.g. clay, sand, loam) muck
Depth 0	Bottom Depth 18	the depth needed to document the ind  Horizon	Color (I 10YR    	Matrix Moist) 2/1	% 100    	   	Color (Moist)	Mottles	Type	Location	(e.g. clay, sand, loam) muck
Depth 0	Bottom Depth 18	the depth needed to document the inc	Color (I 10YR    	Matrix Moist) 2/1	% 100    	   	Color (Moist)	Mottles	Type	Location	(e.g. clay, sand, loam) muck
Depth 0 NRCS Hydric	Bottom Depth 18 Soil Field In	the depth needed to document the ind  Horizon	Color (I 10YR    	Matrix Moist) 2/1 tors are	% 100     not prese	     ent	Color (Moist)	Mottles	Type	Location	(e.g. clay, sand, loam) muck
Depth 0 NRCS Hydric	Bottom Depth 18 Soil Field In	Horizon	Color (I 10YR    	Matrix Moist) 2/1 tors are	% 100 not prese	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B)	Mottles %	Type	Location	(e.g. clay, sand, loam)  muck
Depth 0 NRCS Hydric	Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi	Horizon	Color (I 10YR    	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Mottles	Type	Location	(e.g. clay, sand, loam)  muck
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Horizon	Color (I 10YR    	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles	Type	Location	(e.g. clay, sand, loam)  muck         (LRR K, L, R)
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple	     value Belo Dark Surf ny Mucky ny Gleyed eted Matri	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles	Type	Location	(e.g. clay, sand, loam)  muck         (LRR K, L, R)  (LRR K, L)
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	      value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Mottles	Type	Location	(e.g. clay, sand, loam)  muck         (LRR K, L, R)  (LRR K, L) L)
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles	Type	Location	(e.g. clay, sand, loam)  muck       149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)  (LRR K, L, R)  I) S (LRR K, L, R)  ils (MLRA 149B)
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles	Type	Location	(e.g. clay, sand, loam)  muck       149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)  (LRR K, L, R)  I) S (LRR K, L, R)  ils (MLRA 149B)
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles	Type	Location	(e.g. clay, sand, loam)  muck      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R)  (LRR K, L, R)  ils (MLRA 149B)  145, 149B)
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles	Type	Location	(e.g. clay, sand, loam)  muck       149B) RK, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck       149B) RK, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
Depth  O  NRCS Hydric	Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E S1 - Sandy N S4 - Sandy N S5 - Sandy R S6 - Stripped	the depth needed to document the ind  Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  %  Indicator  Indicator	Type	Location	(e.g. clay, sand, loam)  muck       149B) RK, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face
Depth  0  NRCS Hydric	Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A13 - Sandy E A14 - Sandy E A15 - Sandy E A16 - Stripped A17 - Dark Su	the depth needed to document the ind  Horizon	Color (I 10YR     ere if indica	Matrix Moist) 2/1 tors are	% 100  not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ills (MLRA 149B) 145, 149B) face must be present, unless

# 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 uppercas	e are non-native	e species.	.)		
Tree Stratum (Plo	ot size: 10 meter radius)					
4	<u>Species Name</u>	-	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.						
2.						Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.						
4.						Total Number of Dominant Species Across All Strata:3(B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.	<u></u>					OBL spp. 35 x 1 = 35
	ı	otal Cover =	0			FACW spp. 25 x 2 = 50
						FAC spp. $10$ $x 3 = 30$
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp. $0 \times 4 = 0$
1.	<b></b>					UPL spp. $0   x   5 = 0$
2.	<b></b>					T ( ) (0)
3.	<b></b>					Total(A)115(B)
4.	_ <del></del>					Dravelance Index - D/A - 4 C42
5.	_ <del></del>					Prevalence Index = B/A =
6.	_ <del></del>					
7.	_ <del></del>					Hydrophytic Vegetation Indicators:
8.	_ <del></del>					Hydrophytic Vegetation Indicators:
9.	_ <del></del>			<del></del>		✓ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.	_ <del></del>	otal Cavar =				✓ Yes ☐ No Dominance Test is > 50%
	'	otal Cover =	0			
Llaub Ctuatura (Dia	t =:					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)  Phragmites australis		5	N	FACW	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
2.	Calamagrostis canadensis		20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Carex stricta		15	Y	OBL	present, unless disturbed or problematic.
<u> </u>	Equisetum arvense		10		FAC	Definitions of Vegetation Strata:
 5.	Onoclea sensibilis		5	N	FACW	Definitions of Vegetation Strata.
6	Phalaris arundinacea		15	Y	FACW	Tree - Manada allocate 2 in (7 Count) on manada dispractor at base at
7.				<u>'</u>		<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	<b></b>					
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
11.						
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.					<u></u>	
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
10.		otal Cover =	70			
	·		70			
Woody Vine Strati	um (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present ☑ Yes ☐ No
4.						, , , , , , , , , , , , , , , , , , , ,
5.						
	T	otal Cover =	0			
Remarks:	·					
Additional Rer	marks:					



Project/Site:		ine Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant: Investigator #1:		ine Renewables, LLC		Investi	gator #2:					County: State:	Somerset ME
Soil Unit:		incook association, 3 to	15% slones	IIIVESII	yaioi #2.		VI/WWI Classification:	Unland		Wetland ID:	W68EI
Landform:	Terrace	arroom accordance, o to	1070 0.0000	Loc	al Relief:		THE THE STATE OF T	opia		Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.145100	Lo	ongitude:	-69.853		Datum:	NAD 83		•
Are climatic/hyd	drologic con	ditions on the site ty	pical for this ti	me of ye	ar? (If no, e	xplain in rei	marks)	□ Yes ☑	No		
		or Hydrology $\square$ sig					Are normal circumst		t?		
		or Hydrology $\square$ nat	urally problem	natic?			☐ Yes	☑ No			
SUMMARY OF											
Hydrophytic Ve				☐ Yes	_			Hydric Soils			☐ Yes ☑ No
Wetland Hydrol				□ Yes	☑ No			Is This Samp	oling Point	Within A Wetlar	nd? 🗌 Yes 🗹 No
Remarks:	Statewide	arougnt									
HYDROLOGY											
						_					
Wetland Hydro		ators (Check here if	indicators are	not pres	sent ):	<b>✓</b>			Secondary:		
	A1 - Surface	Water		П	B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	A2 - High W	ater Table			B13 - Aqu	atic Faun	a			B10 - Drainage P	atterns
	A3 - Saturati				B15 - Mar					B16 - Moss Trim	
	B1 - Water N B2 - Sedime				C1 - Hydr C3 - Oxidi		ospheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bur	
	B3 - Drift De	posits			C4 - Pres	ence of R	educed Iron			C9 - Saturation V	isible on Aerial Imagery
	B4 - Algal M						eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron De	posits ion Visible on Aerial Ima	gerv		C7 - Thin Other (Ex					D2 - Geomorphic D3 - Shallow Aqu	
		y Vegetated Concave S		-	0 ti 10 1 (EX	p.a	smanne)			D4 - Microtopogra	aphic Relief
										D5 - FAC-Neutral	l Test
Field Observat											
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes ☑ No
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)						
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
	ed Data (str	eam gauge, monitoring	g well, aerial ph	otos, pre	vious insp	ections)	if available:		N/A		
			<u> </u>	- 1	mode mop	001.01.0),					
Remarks:	Statewide	drought	<u> </u>		11040 11100						
	Statewide	drought	<u> </u>		Troug mop	,					
SOILS				•				Wall Dusings			
SOILS Map Unit Name	<b>)</b> :	Telos-Chesuncook ass	ociation, 3 to 15°	% slopes			Series Drainage Class:	Well Drained	I		
SOILS Map Unit Name Taxonomy (Sub	e: ogroup):	Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to 15 <sup>c</sup> Lithic Haploh	% slopes umods	-	S	Geries Drainage Class:			sing M-Matrix	
SOILS Map Unit Name Taxonomy (Sub	e: ogroup): otion (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to 15 <sup>o</sup> Lithic Haploh <sub>licator or confirm the abser</sub>	% slopes umods	-	S		ed/Coated Sand Grains; Lo		ing, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	e: ogroup): otion (Describe to Bottom	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc	ociation, 3 to 15 <sup>o</sup> Lithic Haploh <sub>licator or confirm the abser</sub>	% slopes umods nce of indicators Matrix	-	S	Series Drainage Class:		ocation: PL=Pore Lin	ing, M=Matrix)  Location	Texture (e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub	e: ogroup): otion (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to 15 <sup>4</sup> Lithic Haploh	% slopes umods nce of indicators Matrix	.) (Type: C=Cond	S	Geries Drainage Class:	ed/Coated Sand Grains; Li		1	
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: ogroup): otion (Describe to Bottom Depth	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc	ociation, 3 to 15 <sup>t</sup> Lithic Haploh licator or confirm the abser N Color (M	% slopes umods nce of indicators Matrix oist)	.) (Type: C=Conc	Sentration, D=De	Series Drainage Class: epletion, RM=Reduced Matrix, CS=Covere Color (Moist)	ed/Coated Sand Grains; Li Mottles %	ocation: PL=Pore Lin	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0	e: pgroup): ption (Describe to Bottom Depth	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15 <sup>th</sup> Lithic Haploh licator or confirm the abser N Color (M- 10YR	% slopes umods nce of indicators Matrix oist) 5/3	.) (Type: C=Conc	Sentration, D=De	Series Drainage Class: epletion, RM=Reduced Matrix, CS=Covere Color (Moist)	ed/Coated Sand Grains; L	ocation: PL=Pore Lin	Location 	(e.g. clay, sand, loam)
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0	e: bogroup): btion (Describe to Bottom Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15 <sup>th</sup> Lithic Haploh licator or confirm the abser N Color (M- 10YR	% slopes umods nce of indicators Matrix oist) 5/3	.) (Type: C=Cond	Sentration, D=De	Series Drainage Class: spletion, RM=Reduced Matrix, CS=Covere Color (Moist)	Mottles %	Type	Location 	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	egroup):  otion (Describe to  Bottom  Depth  16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc  Horizon	ociation, 3 to 15 <sup>t</sup> Lithic Haploh flicator or confirm the abser  Color (M: 10YR	% slopes umods umods nce of indicators Matrix oist) 5/3	% 100	Sentration, D=De	Geries Drainage Class: epletion, RM=Reduced Matrix, CS=Covered Color (Moist)	Mottles %	Type	Location  	(e.g. clay, sand, loam) fine sandy loam 
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	egroup):  otion (Describe to  Bottom  Depth  16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15 <sup>th</sup> Lithic Haploh licator or confirm the abser  Color (M- 10YR	% slopes umods nce of indicators Matrix oist) 5/3	.) (Type: C=Conc	Sentration, D=De	Series Drainage Class: spletion, RM=Reduced Matrix, CS=Covere Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0	e: ogroup): <b>btion</b> (Describe to Depth 16   	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M: 10YR	% slopes umods nee of indicators Astrix oist)  5/3	% 100	Scentration, D=De	Color (Moist)	Mottles  // Mottle	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0	e: Dogroup): Dogroup): Bottom Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates Matrix oist)  5/3	% 100	Scentration, D=De	Series Drainage Class: epletion, RM=Reduced Matrix, CS=Covere  Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	e: ogroup): otion (Describe to Depth 16 Soil Field II	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coe of indicators Matrix oist) 5/3 s are not	% 100 present	Scentration, D=De	Color (Moist)	Mottles %	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	e: Degroup): Describe to Depth 16 Soil Field II A1- Histosol	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods noe of indicators Matrix oist) 5/3	% 100 present S8 - Polyv	SS entration, D=De	Series Drainage Class: epletion, RM=Reduced Matrix, CS=Covere  Color (Moist)	Mottles %	Type s for Proble	Location matic Soils <sup>1</sup> Wuck (LRR K, L, MLRA <sup>2</sup>	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field II A1- Histosol A2 - Histic E A3- Black H	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates // Attrix oist) 5/3	% 100	Scentration, D=De	Color (Moist)	Mottles %	Type s for Proble A10 - 2 cm II A16 - Coast S3 - 5cm Mt	Location matic Soils  Muck (LRR K, L, MLRA * Prairie Redox (LRR Locky Peat of Peat (Locky Peat (L	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydrogr	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods noe of indicators Matrix oist)  5/3      s are not	% 100	Scentration, D=Del	Series Drainage Class:  color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	b: Degroup): Describe to Depth 16 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydrog A5 - Stratifie	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods nee of indicators Matrix oist) 5/3 s are not	% 100	entration, D=De	Series Drainage Class:  epletion, RM=Reduced Matrix, CS=Covere  Color (Moist)	Mottles %	Type	Location  matic Soils   Muck (LRR K, L, MLRA 4 Prairie Redox (LRR LOK) Peat of Peat or Lord Peat of Peat or Lord R K, L, M) ue Below Surface	(e.g. clay, sand, loam) fine sandy loam
SOILS Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	b: Degroup): Describe to Depth 16 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydrog A5 - Stratifie	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods nee of indicators Matrix oist) 5/3 s are not	% 100	Scentration, D=De	Series Drainage Class:  color (Moist)       w Surface (LRR R, MLRA 149B)  Matrix (XR K, L)  Matrix X  urface	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bogroup):  pogroup):  btion (Describe to Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods nee of indicators Matrix oist) 5/3	% 100	entration, D=De	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bogroup):  btion (Describe to Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon ndicators (check he pipedon isitic en Sulfide d Layers ted Below Dark Surface	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates Matrix oist)  5/3	% 100	entration, D=De	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16 Soil Field II A1- Histosol A2- Histic E A3 - Black H A4- Hydroge A5 - Stratifie A11 - Deplet A12 - Thick I S1 - Sandy N S5 - Sandy S5 - Sandy F	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates Matrix oist)  5/3	% 100	entration, D=De	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bogroup):  pogroup):  btion (Describe to Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates Matrix oist)  5/3	% 100	entration, D=De	Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bogroup):  pogroup):  btion (Describe to Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates Matrix oist)  5/3	% 100	entration, D=De	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods nee of indicators Astrix oist)  5/3      s are not	% 100	entration, D=De	Color (Moist)	Mottles  %	Type  Type	Location	(e.g. clay, sand, loam) fine sandy loam
SOILS  Map Unit Name Taxonomy (Sut Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 16	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the inc Horizon	ociation, 3 to 15° Lithic Haploh licator or confirm the abser  Color (M. 10YR	% slopes umods coordinates Matrix ooist)  5/3	% 100	entration, D=De	Color (Moist)	Mottles  %	Type  Type	Location	(e.g. clay, sand, loam) fine sandy loam

### WETLAND DETERMINATION DATA FORM

Northeast and Northcentral Region

TETRA TECH

**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) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 2 Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. 4. Total Number of Dominant Species Across All Strata: 2 5 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) 7. --Prevalence Index Worksheet 8. 9 Total % Cover of: Multiply by: 10 OBL spp. x 1 = Total Cover = 0 FACW spp. x 2 = 0 0 FAC spp. x 3 = 0 0 Sapling/Shrub Stratum (Plot size: 5 meter radius) FACU spp. \_\_ 37 x 4 = 148 \_\_ UPL spp. 0 x 5 = 0 2. 3. Total 42 (A) 153 4 5. Prevalence Index = B/A = 3.643 6 7. **Hydrophytic Vegetation Indicators:** 8. 9. ☐ Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. ☐ Yes ✓ No Dominance Test is > 50% Total Cover = ☐ Yes 0 ✓ No Prevalence Index is < 3.0 \* ☐ Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) \* Solidago canadensis 20 FACU \* Indicators of hydric soil and wetland hydrology must be 2 Rubus idaeus 10 Υ **FACU** present, unless disturbed or problematic. Calamagrostis canadensis 3. 5 Ν OBL 4. Symphyotrichum laeve 5 Ν FACU **Definitions of Vegetation Strata:** Ν FACU 5. Maianthemum canadense 2 6 Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12 woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 42 Woody Vine Stratum (Plot size: 10 meter radius) 1. **Hydrophytic Vegetation Present** ☐ Yes ☑ No 3. 4 5. Total Cover = 0 Remarks:

Additional Remarks:		



Project/Site:	Western Mai	ne Renewable Energy P	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1:					igator #2:					State:	ME
Soil Unit:		cook association, 3 to 15	percent slope				/I/WWI Classification:	PEM		Wetland ID:	W68EI
Landform:	Terrace				al Relief:					Sample Point:	Wetland
Slope (%):	See topo map		45.142780		ongitude:				NAD 83		
		ditions on the site typ				o, explain in		☐ Yes ☑			
		or Hydrology ☐sign					Are normal circumsta		t?		
		or Hydrology 🛚 natu	urally proble	ematic?			☐ Yes	☑No			
SUMMARY OF											
Hydrophytic Veg				✓ Yes				Hydric Soils		• • • • • • • • • • • • • • • • • • • •	✓ Yes □ No
Wetland Hydrol				✓ Yes	□ No			is This Samp	oling Point V	Vithin A Wetland	d?
Remarks:	Statewide of	drought									
HYDROLOGY											
Wetland Hydro	ology Indica	ators (Check here if	indicators	are not p	resent	):□					
Primary:				_					Secondary:		
	A1 - Surface A2 - High Wa				B9 - Wate B13 - Aqu					B6 - Surface Soil ( B10 - Drainage Pa	
	A3 - Saturation									B16 - Moss Trim L	
	B1 - Water M				C1 - Hydr					C2 - Dry-Season \	
	B2 - Sedimei						spheres on Living Roots			C8 - Crayfish Burr	
	B3 - Drift De						educed Iron				sible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Der						duction in Tilled Soils			D1 - Stunted or St	
_		oosแร on Visible on Aerial Ima	nerv		C7 - Thin Other (Ex				=	D2 - Geomorphic D3 - Shallow Aquit	
		Vegetated Concave S		ш	Othor (Ex	piairiiri	markoj			D4 - Microtopogra	
		-								D5 - FAC-Neutral	Test
Field Observat	ions:										
Surface Water I	Present?	☐ Yes ☑ No	Depth:		(in.)						.,
Water Table Pro		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pres		✓ Yes □ No	Depth:		(in.)						
					` ,	! <b>- 4</b> ! -			N/A		
	ed Data (Str	eam gauge, monitorin	ig weii, aeria	ai priotos	. Drevious	inspectio	ns), ii avallable:		IN/A		
D	04-4	de e conde 4	-	•	' '		,,				
Remarks:	Statewide of	drought			, 1		,,				
	Statewide of	drought	-	•			,				
SOILS					· 1					.1	
SOILS Map Unit Name	:	Telos-Chesuncook association,	3 to 15 percent sl	opes			eries Drainage Class:	somewhat po	oorly draine	d	
SOILS Map Unit Name Taxonomy (Sub	: group):	Telos-Chesuncook association, Loamy, isotic, frigid	3 to 15 percent sl	<sub>opes</sub> quic Hap	olorthods	ξ	eries Drainage Class:	•			
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	: group): tion (Describe to	Telos-Chesuncook association, Loamy, isotic, frigid	3 to 15 percent sl	opes quic Hap	olorthods	ξ		ered/Coated Sand Grains;			Toytura
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	group):  tion (Describe to Bottom	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indie	3 to 15 percent sl , shallow A cator or confirm the a	opes quic Hap absence of indica Matrix	plorthods ators.) (Type: C=C	ξ	Series Drainage Class:	ered/Coated Sand Grains;	; Location: PL=Pore L	ining, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	: group): tion (Describe to Bottom Depth	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indi	3 to 15 percent sl , shallow A cator or confirm the a	opes quic Hap absence of indica Matrix Moist)	plorthods ators.) (Type: C=C	Concentration, D	eries Drainage Class:  Depletion, RM-Reduced Matrix, CS-Cov	ered/Coated Sand Grains; Mottles %	: Location: PL=Pore L	ining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	group):  tion (Describe to Bottom	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indi Horizon	3 to 15 percent sl , shallow A cator or confirm the a	opes quic Hap absence of indica Matrix	plorthods ators.) (Type: C=C	Concentration, D	eries Drainage Class:  Depletion, RM=Reduced Matrix, CS=Cow  Color (Moist)	ered/Coated Sand Grains;  Mottles  %	Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indi Horizon	3 to 15 percent sl, shallow Acator or confirm the a	opes quic Hap absence of indica Matrix Moist) 2/1	blorthods stors.) (Type: C=0	Concentration, D	Depletion, RM=Reduced Matrix, CS=Cov	ered/Coated Sand Grains;  Mottles  %	Type	Location	(e.g. clay, sand, loam) muck 
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indi  Horizon	3 to 15 percent sl, shallow Acator or confirm the a	opes quic Hap quic Hap beence of indica Matrix Moist) 2/1	blorthods stors.) (Type: C=C	Concentration, D	Color (Moist)	ered/Coated Sand Grains;  Mottles  %	Type	Location	(e.g. clay, sand, loam) muck  
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice Horizon	3 to 15 percent sl, shallow Accator or confirm the a	opes quic Hap quic Hap besence of indict Matrix Moist) 2/1	olorthods stors.) (Type: C=C % 100	Concentration, D	Geries Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Cov  Color (Moist)	weed/Coated Sand Grains; Mottles %	Type	Location	(e.g. clay, sand, loam) muck   
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice  Horizon	3 to 15 percent sl, shallow Acator or confirm the a	opes quic Hap quic Hap basence of indice Matrix Moist) 2/1	olorthods stors.) (Type: C=C % 100	Concentration, D	Color (Moist)	weed/Coated Sand Grains; Mottles %	Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice Horizon	3 to 15 percent sl, shallow Accator or confirm the a	opes quic Hap quic Hap bsence of indict Matrix Moist) 2/1	olorthods olors.) (Type: C=0 % 100	Concentration, D	Color (Moist)	weed/Coated Sand Grains; Mottles %	Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice  Horizon	3 to 15 percent sl, shallow Acator or confirm the a	opes quic Hap quic Hap basence of indice Matrix Moist) 2/1	olorthods stors.) (Type: C=C % 100	Concentration, D	Color (Moist)	weed/Coated Sand Grains; Mottles %	Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group):  tion (Describe to  Bottom Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice  Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap basence of indica Matrix Moist) 2/1	9/0 1000 1000 1000 1000 1000 1000 1000 1	Concentration, D	Color (Moist)	weed/Coated Sand Grains;  Mottles	Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric :	: group): tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap basence of indical Matrix Moist) 2/1 ors are r	olorthods  % 100  100  oto preserv	Concentration, D	Depletion, RM=Reduced Matrix, CS=Cow  Color (Moist)	### Proof of the Indicator	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to  Bottom Depth 16  Soil Field Ir A1- Histosol	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indi Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap quic Hap absence of indic Matrix Moist) 2/1 ors are r	olorthods    %   100	Concentration, D	Depletion, RM=Reduced Matrix, CS=Cow  Color (Moist)	Mottles %	Type	Location matic Soils <sup>1</sup> Wuck (LRR K, L, MLRA 14	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 16 Soil Field Ir A1- Histosol A2 - Histic E	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indi  Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap quic Hap absence of indice Matrix Moist) 2/1	%   100	Concentration D	Color (Moist)	Mottles % Indicator	Type	Location  matic Soils <sup>1</sup> VUCK (LRR K, L, MLRA 14 Prairie Redox (LRR	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to  Bottom Depth 16  Soil Field Ir A1- Histosol	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice  Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap quic Hap absence of indic Matrix Moist) 2/1 ors are r	%   100	Concentration, D	Color (Moist)	Mottles %	Type	Location matic Soils <sup>1</sup> Wuck (LRR K, L, MLRA 14	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 16  Soil Field Ir A1- Histosol A2 - Histic E, A3 - Black Hi	Telos-Chesuncook association, Loamy, isotic, frigid, the depth needed to document the indice that the indice t	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1 ors are r	olorthods  (Type: C=0  %  100  ot preser  88 - Polyn  F1 - Loarn	Concentration, D	Depletion, RM=Reduced Matrix, CS=Cow  Color (Moist)	Mottles  % Indicator	Type	Location  matic Soils <sup>1</sup> Wuck (LRR K, L, MLRA 14 Prairie Redox (LRR LICKY Peat of Peat (L	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indic Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap basence of indical Matrix Moist) 2/1 ors are r	%   100             %   100     %	concentration. D  tt jz  ralue Belo Dark Surf- ny Mucky I ny Gleyed eted Matrix bx Dark Su	Depletion, RM=Reduced Matrix, CS=Cov  Color (Moist)	Mottles % Indicator	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 16  Soil Field Ir A1- Histosol A2- Histic El A3- Black H A4- Hydroge A5- Stratifiee A11- Deplet A12- Thick I	Telos-Chesuncook association. Loamy, isotic, frigid. Loamy, isotic, frigid. The depth needed to document the indice the depth needed to document the indice the indice the indice the indice transport of the indice the ind	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1	%	Concentration, D	Color (Moist)	Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indice that the indice th	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap quic Hap absence of indic Matrix Moist) 2/1 ors are r	%   100             %   100     %	Concentration, D	Color (Moist)	Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to:  Bottom Depth 16  Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black H A4 - Hydroge A5 - Stratifier A11 - Deplet A12 - Thick E S1 - Sandy M S4 - Sandy M	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indi Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1	%	Concentration, D	Color (Moist)	Mottles %	Type	Location  Location  Location  Market Soils  Wuck (LRR K, L, MLRA 14 Prairie Redox (LRR K, L) Location  Locky Peat of Peat (LRR K, L) Location  Locky Peat of Peat (LRR K, L) Location  Locky Peat of Peat (LRR K, L)  Locky Peat of Peat (LRR K, L)  Location  Locky Peat of Peat (LRR K, L)  Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indice Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1	%	Concentration, D	Color (Moist)	Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indice Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1	%	Concentration, D	Color (Moist)	Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 16	Telos-Chesuncook association. Loamy, isotic, frigid. Loamy, isotic, frigid. The depth needed to document the indiction of the	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1	%	Concentration, D	Color (Moist)	Indicators of landscars of land	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indi  Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap absence of indic Matrix Moist) 2/1	90 olorthods 90 100 90 100	Concentration, D	Color (Moist)	Indicators c disturbed of distu	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 16	Telos-Chesuncook association, Loamy, isotic, frigid the depth needed to document the indi  Horizon	3 to 15 percent si , shallow Aveator or confirm the a  Color (I  10YR	opes quic Hap Matrix Moist) 2/1	90 olorthods 90 100 90 100	Concentration, D	Color (Moist)	Indicators of landscars of land	Type	Location  Locati	(e.g. clay, sand, loam)  muck

Sample Point Wetland

### WETLAND DETERMINATION DATA FORM

Northeast and Northcentral Region

Wetland ID:

W68EI



Project/Site:

Western Maine Renewable Energy Project **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name Ind.Status % Cover Dominant 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4 Total Number of Dominant Species Across All Strata: 4 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 7. 8. Prevalence Index Worksheet 9 Total % Cover of: Multiply by: 10. x 1= OBL spp. ----42 FACW spp. Total Cover = 0 x 2 = 15 30 FAC spp. 5 x 3 = 15 Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 = FACU spp. \_ 0 x 5= UPL spp. 0 0 2. 87 \_\_\_ 3. 62 \_\_\_\_(A) Total 4. 5. Prevalence Index = B/A = 1.403 6. 7. ----8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation 10 □ No Yes Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☐ Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) \* Typha angustifolia 10 OBL \* Indicators of hydric soil and wetland hydrology must be Calamagrostis canadensis 20 Υ 2 OBL present, unless disturbed or problematic. Υ 3. Carex stricta 10 OBL **Definitions of Vegetation Strata:** 4. Equisetum arvense 5 Ν FAC 5. Onoclea sensibilis 5 Ν FACW Υ 6 Phalaris arundinacea 10 **FACW**  $\mbox{\bf Tree}$  -  $_{\mbox{\it Woody plants 3}}$  in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. Iris versicolor 2 Ν OBL 8 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. 10 11 --12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. --Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 62 Woody Vine Stratum (Plot size: 10 meter radius) 2. Hydrophytic Vegetation Present ☑ Yes ☐ No 3. 4. 5. Total Cover = 0 Remarks: **Additional Remarks:** 



Project/Site:	Western Ma	ine Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Ma	ine Renewables, LLC								County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:	Telos-Chesu	incook association, 3 to	15% slopes			NV	VI/WWI Classification:	: Upland		Wetland ID:	W71EI
Landform:	Terrace			Loc	al Relief:	Linear				Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.145100	L	ongitude:	-69.853		Datum:	NAD 83		
Are climatic/hy	drologic con	ditions on the site ty	pical for this ti	me of ye	ar? (If no, e	xplain in rei	marks)	☐ Yes ☑	No		
		or Hydrology ☐ sig					Are normal circumst	ances present	?		
		or Hydrology □ nat					☐ Yes	☑ No			
SUMMARY OF		) 5)	7								
Hydrophytic Ve		esent?		☐ Yes	. ☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydro				☐ Yes						Within A Wetlar	
Remarks:	Statewide			_ 100				lio Tilio Callip	ing i onic	vvidiiii 71 vvodai	id:     103   110
rtemarks.	Otatewide	arougin									
LIVEROLOGY											
HYDROLOGY											
Wetland Hydr	rology Indic	ators (Check here if	indicators are	e not pre	sent ):	<b>✓</b>					
Primary				_					Secondary:		
	A1 - Surface				B9 - Wate					B6 - Surface Soil	
	A2 - High War A3 - Saturati									B10 - Drainage P B16 - Moss Trim	
				H						C2 - Dry-Season	
				П			spheres on Living Roots			C8 - Crayfish Bur	
							educed Iron				isible on Aerial Imagery
							duction in Tilled Soils			D1 - Stunted or S	
										D2 - Geomorphic	
		on Visible on Aerial Ima			Other (Ex	plain in Re	emarks)				
	Bo - Sparsei	y Vegetated Concave S	ипасе							D4 - Microtopogra D5 - FAC-Neutra	
E: 110:										DO 1710 HOULE	1001
Field Observa		_									
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes ☑ No
Water Table P		☐ Yes ☑ No	Depth:		(in.)			•			
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ded Data (str	eam gauge, monitorin	g well, aerial ph	notos, pre	vious insp	ections),	if available:		N/A		
Remarks:	Statewide	drought									
		ū									
SOILS											
Map Unit Name	۵.	Telos-Chesuncook ass	ociation 3 to 15	% slones		S	eries Drainage Class:	Well Drained			
Taxonomy (Su		Loamy, isotic, frigid					once Brainage Glace.	. Won Brained			
	<u> </u>				: ) (Type: C=Cond	entration D=De	epletion, RM=Reduced Matrix, CS=Covere	ed/Coated Sand Grains: Li	ncation: PI =Pore I in	sing M=Matrix)	
Тор	Bottom	and depart needed to decarrons are no		Matrix	., (1)pc. 0 Odin	Jona dalon, D. Di	prodot, rem reduced mains, co coron	Mottles	bodion. TE T oro Em	ing, in massiv)	
ТОР	Dolloili							Mottica			Texture
Donth	Donth	Horizon			0/-		Color (Moiot)	0/-	Typo	Location	Texture
Depth	Depth	Horizon	Color (M	oist)	%		Color (Moist)	%	Type	Location	(e.g. clay, sand, loam
0	6		Color (M 10YR	oist) 5/3	100		-				(e.g. clay, sand, loam fine sandy loam
0	6 12		Color (M 10YR 10YR	oist) 5/3 5/2	100 100						(e.g. clay, sand, loam fine sandy loam fine sandy loam
0	6 12 18		Color (M 10YR	oist) 5/3	100						(e.g. clay, sand, loam fine sandy loam
0	6 12		Color (M 10YR 10YR	oist) 5/3 5/2	100 100						(e.g. clay, sand, loam fine sandy loam fine sandy loam
0 6 12	6 12 18		Color (M 10YR 10YR 2.5Y	5/3 5/2 5/2	100 100 100				  	 	(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam
0 6 12 	6 12 18 		Color (M 10YR 10YR 2.5Y	5/3 5/2 5/2 	100 100 100 		  	  	  	  	(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam
0 6 12 	6 12 18 		Color (M 10YR 10YR 2.5Y	oist) 5/3 5/2 5/2	100 100 100  	  	   	  		  	(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam 
0 6 12  	6 12 18  		Color (M 10YR 10YR 2.5Y 	oist) 5/3 5/2 5/2	100 100 100  	   		   		   	(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam  
0 6 12   	6 12 18    		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2	100 100 100    					     	(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam   
0 6 12     NRCS Hydric	6 12 18 Soil Field I		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100     present	      ): 🗸		      Indicator	     s for Proble	     matic Soils <sup>1</sup>	(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam   
0 6 12      NRCS Hydric	6 12 18 Soil Field II A1- Histosol	      ndicators (check he	Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100     present S8 - Polys	     ): ☑ /alue Belo	     w Surface (LRR R, MLRA 1498)	      Indicator			(e.g. clay, sand, loam fine sandy loam fine sandy loam fine sandy loam    
0 6 12     NRCS Hydric	6 12 18 Soil Field II A1- Histosol A2- Histic E		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100     present S8 - Polys S9 - Thin	     ): ☑ /alue Belo		      Indicator		    matic Soils <sup>1</sup> Muck (LRR K, L, MLRA - Prairie Redox (LRR	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 Soil Field II A1- Histosol A2 - Histic E A3 - Black H	ndicators (check he	Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100     present S8 - Polys S9 - Thin	y: ☑ ralue Belo Dark Surfa		      Indicator	     s for Proble A10 - 2 cm I A16 - Coast S3 - 5cm Mt		(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydrol A5 - Stratifie	ndicators (check he pipedon istic en Sulfide d Layers	Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100 		W Surface (LRR R, MLRA 1498) ace (LRR R, MLRA 1498) Mineral (LRR K, L) Matrix	      Indicator			(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydrogg A5 - Stratifie A11 - Deplet	ndicators (check he pipedon istic pipedon istic d Layers ed Below Dark Surface	Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 149B) Wineral (LRR K, L) Matrix X Varface	      Indicator			(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 Soil Field II A1- Histosol A2 - Histic E A3 - Black H A4 - Hydrog A5 - Stratifie A11 - Deplet A12 - Thick I		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K			matic Soils 1  Muck (LRR K, L, MLRA - Prairie Redox (LR Redox (LR L) CAR - LOTA	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam  (49B) t.K., L, R) t.RR K, L, R) (LRR K, L, R)
0 6 12    NRCS Hydric	6 12 18 Soil Field II A1- Histosol A2 - Histosol A3 - Black H A4 - Hydrogo A5 - Stratifie A1 - Deplet A12 - Thick I S1 - Sandy N S1 - Sandy N		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K				(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12    NRCS Hydric	6 12 18 18 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K	      Indicator			(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 18 18 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K			matic Soils 1  Muck (LRR K, L, MLRA- Prairie Redox (LRR L, L, M) Urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, L, M) cont Floodplain So Spodic (MLRA 144A, C) Parent Material	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 18		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K			matic Soils 1  Muck (LRR K, L, MLRA - Prairie Redox (LRR K, L, MLRA - Prairie Soils 1  Muck (LRR K, L, MLRA - Prairie Redox (LRR K, L, M)  Langanese Masses  ont Floodplain So  Spodic (MLRA 144A, - arent Material  Shallow Dark Sur	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12     NRCS Hydric	6 12 18 18		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K			matic Soils 1  Muck (LRR K, L, MLRA- Prairie Redox (LRR L, L, M) Urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, L, M) cont Floodplain So Spodic (MLRA 144A, C) Parent Material	(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12    NRCS Hydric	6 12 18 18 18 19 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100             -		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K	Indicator  Indicator  Indicator Gisturbed of disturbed of			(e.g. clay, sand, loam fine sandy loam fine sa
0 6 12     NRCS Hydric	6 12 18 18 18 19 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100            		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K				(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam
0 6 12 NRCS Hydric	6 12 18 18 18 19 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		Color (M 10YR 10YR 2.5Y   	oist) 5/3 5/2 5/2 s are not	100 100 100             -		W Surface (LRR R, MLRA 1498)  Wineral (LRR K, L)  Matrix  K  K  K  K  K  K  K  K  K  K  K  K  K	Indicator  Indicator  Indicator Gisturbed of disturbed of			(e.g. clay, sand, loam) fine sandy loam fine sandy loam fine sandy loam

### WETLAND DETERMINATION DATA FORM

Northeast and Northcentral Region

**TETRA TECH** 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) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status FAC Acer rubrum 5 FAC Betula alleghaniensis 2 5 Ν Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 3. Abies balsamea 5 Ν FAC 4. Total Number of Dominant Species Across All Strata: 3 5 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) 7. --Prevalence Index Worksheet 8. 9 Total % Cover of: Multiply by: 10 x 1 = OBL spp. Total Cover = 15 FACW spp. x 2 = 0 0 x 3 = FAC spp. 15 45 Sapling/Shrub Stratum (Plot size: 5 meter radius) FACU spp. \_\_ x 4 = 52 208 Υ FACU Rubus idaeus 10 UPL spp. 0 x 5 = 0 2. 3. Total 72 (A) 258 4 5. Prevalence Index = B/A = 3.583 6 7. 8. **Hydrophytic Vegetation Indicators:** 9. ☐ Yes √ No. Rapid Test for Hydrophytic Vegetation 10. ☐ Yes ✓ No Dominance Test is > 50% Total Cover = ☐ Yes 10 ✓ No Prevalence Index is < 3.0 \* ☐ Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) \* Solidago canadensis 20 FACU \* Indicators of hydric soil and wetland hydrology must be 2 Rubus idaeus 10 Υ **FACU** present, unless disturbed or problematic. Calamagrostis canadensis 3. 5 Ν OBL 4. Symphyotrichum laeve 5 Ν FACU **Definitions of Vegetation Strata:** Ν FACU 5. Maianthemum canadense 2 6 Aralia nudicaulis 5 Ν FACU Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12 woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15 Total Cover = 47 Woody Vine Stratum (Plot size: 10 meter radius) 1. **Hydrophytic Vegetation Present** ☐ Yes ☑ No 3. 4 5. Total Cover = 0 Remarks:

Addit	ional Remarks:			



Project/Site:	Western Mai	ne Renewable Energy F	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1:	Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		ncook association, 3 to	15 percent s		<u> </u>	NV	/I/WWI Classification:	· PFM		Wetland ID:	W71EI
Landform:	Terrace	noon accountion, o to	10 po. 00.11 0.		al Relief:		. ,			Sample Point:	Wetland
Slope (%):		Latituda	45 4405440		onaitude:		1000	Dotum:	NAD 83	Sample Folia.	VVetialiu
	See topo map		45.143541°								
		ditions on the site typ				o, explain in			No		
		or Hydrology 🛚 sign					Are normal circumst		t?		
		or Hydrology 🛭 natı	urally proble	ematic?			☐ Yes	☑ No			
<b>SUMMARY OF</b>	FINDINGS										
Hydrophytic Ved	netation Pre	sent?		Yes	□ No			Hydric Soils	Present?		
Wetland Hydrol				✓ Yes						Within A Wetland	
Remarks:	Statewide of			_ 100				is This Carrie	Jillig i Ollic i	Willim 7 W Clair	
Remarks.	Statewide	arougni									
HYDROLOGY											
Wetland Hydro	ology Indica	ators (Check here if	indicators	are not r	resent	):□					
Primary:		ators (oricon norch	indicators	are not p	or Coorne	,			Secondary:		
	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	A2 - High Wa				B13 - Aqu				_	B10 - Drainage Pa	
	A3 - Saturation			П						B16 - Moss Trim I	
	B1 - Water M									C2 - Dry-Season \	
	B2 - Sedimei	nt Deposits					spheres on Living Roots			C8 - Crayfish Burr	
	B3 - Drift De						educed Iron			C9 - Saturation Vi	sible on Aerial Imagery
	B4 - Algal Ma				C6 - Rece	ent Iron Re	duction in Tilled Soils			D1 - Stunted or St	
	B5 - Iron Dep				C7 - Thin	Muck Surf	ace			D2 - Geomorphic	Position
	B7 - Inundati	on Visible on Aerial Ima	gery		Other (Ex	plain in Re	emarks)			D3 - Shallow Aqui	tard
	B8 - Sparsely	y Vegetated Concave S	urface							D4 - Microtopogra	phic Relief
										D5 - FAC-Neutral	Test
Field Observat	ions:										
Surface Water I		□ V □ N-	Dth-		(in )						
		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pre		☐ Yes ☑ No	Depth:		(in.)			· ·			
Saturation Pres	ent?	Yes No	Depth:	8	(in.)						
Describe Record	ed Data (str	eam gauge, monitorin	na well aeria	al nhotos	nrevious	inspectio	ne) if available:		N/A		
Describe record	ca Data (Sti										
Dama aulca.	Ctatavida		.9,	ai priotoo	, provious	Порсоно	iis), ii avallable.		IN/A		
Remarks:	Statewide of		. <del>g</del> ,	ar priotoo	, previous	Порсоно	ns), ii avaliable.		IV/A		
Remarks:	Statewide		.g wen, den	ar priotoc	, previous	Порсоцо	ns), ii avaliable.		N/A		
Remarks: SOILS	Statewide of		.g, ac	ai priotoo	, previous	Пореспо	iio), ii avaliabie.		IVA		
			_	·		•	Series Drainage Class:	: somewhat po		d	
SOILS Map Unit Name	:	drought Telos-Chesuncook ass	ociation, 3 to	15 perce	nt slopes	•		: somewhat po		d	
SOILS Map Unit Name Taxonomy (Sub	: group):	drought  Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to , shallow A	15 perce quic Hap	nt slopes blorthods	S	Geries Drainage Class:	•	oorly draine		
SOILS Map Unit Name Taxonomy (Sub Profile Descrip	: group): <b>tion</b> (Describe to	drought  Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to , shallow A	15 perce quic Hap	nt slopes blorthods	S		wered/Coated Sand Grains;	oorly draine		Toytura
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	group): tion (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to, shallow A	o 15 perce quic Hap beence of indica Matrix	nt slopes blorthods ators.) (Type: C=0	S	Series Drainage Class:	wered/Coated Sand Grains;	Dorly draine	ining, M=Matrix)	Texture
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	: group): tion (Describe to Bottom Depth	drought  Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to , shallow A cator or confirm the a	15 perce quic Hap beence of indica Matrix Moist)	nt slopes blorthods ators.) (Type: C=C	S	Geries Drainage Class:	wered/Coated Sand Grains;	oorly draine		(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top	group): tion (Describe to	Telos-Chesuncook ass Loamy, isotic, frigid	ociation, 3 to, shallow A	o 15 perce quic Hap beence of indica Matrix	nt slopes blorthods ators.) (Type: C=0	S	Series Drainage Class:	wered/Coated Sand Grains;	Dorly draine	ining, M=Matrix)	
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	: group): tion (Describe to Bottom Depth	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi	ociation, 3 to , shallow A cator or confirm the a	15 perce quic Hap beence of indica Matrix Moist)	nt slopes blorthods ators.) (Type: C=C	Concentration, D	Series Drainage Class:  -Depletion, RM-Reduced Matrix, CS-Color (Moist)	wered/Coated Sand Grains; Mottles %	Dorly draine  Location: PL=Pore L	ining, M=Matrix)  Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): tion (Describe to Bottom Depth	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	occiation, 3 to , shallow A cator or confirm the a Color (I 10YR	15 perce quic Hap beence of indica Matrix Moist)	nt slopes blorthods ators.) (Type: C=C	Concentration, D	Series Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Cot  Color (Moist)	wered/Coated Sand Grains; Mottles %	Location: PL=Pore L Type	Location	(e.g. clay, sand, loam) muck 
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	cociation, 3 to , shallow A cator or confirm the a Color (I 10YR	115 perce quic Hap basence of indica Matrix Moist) 2/1	nt slopes blorthods ators.) (Type: C=0	Concentration, D	Color (Moist)	Mottles %	Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck  
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	cociation, 3 to , shallow Arcator or confirm the a Color (I 10YR	15 perce quic Hap besence of indiction Matrix Moist) 2/1	nt slopes blorthods ators.) (Type: C=0 0 100	Concentration, D	Geries Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)	wered/Coated Sand Grains; Mottles %	Dorly draine  Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck   
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	cociation, 3 to , shallow A cator or confirm the a Color (I 10YR	15 perce quic Hap besence of indiction Matrix Moist) 2/1	nt slopes blorthods ators.) (Type: C=0	Concentration, D	Color (Moist)	Mottles %	Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck  
SOILS Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	cociation, 3 to , shallow Arcator or confirm the a Color (I 10YR	15 perce quic Hap besence of indiction Matrix Moist) 2/1	nt slopes blorthods ators.) (Type: C=0 0 100	Concentration, D	Geries Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)	wered/Coated Sand Grains; Mottles %	Dorly draine  Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck   
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	cociation, 3 to, shallow Accator or confirm the a	15 perce quic Hap besence of indiction Matrix Moist) 2/1	nt slopes plorthods stors.) (Type: C=0 % 100	Concentration, D	Color (Moist)	wered/Coated Sand Grains: Mottles %	Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck    
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	cociation, 3 to, shallow Arcator or confirm the a	15 perce quic Hap beence of indicate Matrix Moist) 2/1	nt slopes plorthods aters.) (Type: C=C	Concentration, D	Geries Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)	wered/Coated Sand Grains;  Mottles  %	Dorly draine  Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to Bottom Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap besence of indici Matrix Moist) 2/1	nt slopes plorthods lors) (Type: C=0  % 100	Concentration, D	Geries Drainage Class:  -Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)	wered/Coated Sand Grains;  Mottles  %	Dorly draine  Location: PL=Pore L  Type	Location	(e.g. clay, sand, loam) muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric :	: group): tion (Describe to  Bottom Depth 18 Soil Field In	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap bisence of Indica Matrix Moist) 2/1	nt slopes plorthods stors) (Type C=6  % 100  not preser	Concentration, D	Depletion, RM=Reduced Matrix, CS=Co  Color (Moist)	wered/Coated Sand Grains; Mottles % Indicator	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group): tion (Describe to Bottom Depth 18 Soil Field Ir A1- Histosol	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	n 15 perce quic Hap absence of indica Matrix Woist) 2/1 ors are r	nt slopes plorthods stors.) (Type: C=6  % 100	Concentration, D	Color (Moist)	Mottles % Indicator	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 18 Soil Field Ir A1- Histosol A2 - Histic E	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap beence of indication Matrix Moist)  2/1  ors are r	nt slopes plorthods stors) (Type: C=0  % 100	Concentration, D	Color (Moist)	Mottles %	Type	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA 14 Prairie Redox (LRR	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth  18  Soil Field Ir A1- Histosol A3 - Black Hi	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes plorthods white slopes of the slope sl	Concentration, D	Depletion, RM=Reduced Matrix, CS=Con  Color (Moist)	Mottles  %	Type s for Proble A10 - 2 cm I A16 - Coast S3 - 5cm M	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group): tion (Describe to Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic E1 A3 - Black H A4 - Hydroge	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	Color (I	15 perce quic Hap beene of Indicators and Indicator	nt slopes  olorthods  which is a constant of the constant of t	Concentration, D	Depletion, RM=Reduced Matrix, CS=Co  Color (Moist)	wered/Coated Sand Grains;  Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group): tion (Describe to Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic E, A3 - Black H 44 - Hydroge A5 - Stratifier	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap beence of indication with the percentage of the	nt slopes plorthods stors.) (Type: C=6  % 100	Concentration, D	Color (Moist)	Mottles %	Type	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA 1- Prairie Redox (LRR LCK) Peat of Peat (LIFACE) LIFACE (LRR K, L, M) ue Below Surface (1)	(e.g. clay, sand, loam)  muck 49B) K, L, R) LRR K, L, R)
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon ndicators (check her pipedon istic en Sulfide d Layers ed Below Dark Surface	Color (I	e 15 perce quic Hap absence of indice Matrix Moist) 2/1 ors are r	nt slopes plorthods wors) (Type: C=C  % 100	Concentration, D  tt J  zalue Belo Dark Surfa y Mucky I ny Gleyed eted Matrix bx Dark Su	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	wered/Coated Sand Grains;  Mottles  % Indicator	Dorly draine  Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group): tion (Describe to: Bottom Depth 18  Soil Field Ir A1- Histosol A2 - Histic E1 A3 - Black Hi A4 - Hydroge A5 - Stratifier A12 - Thick I S1 - Sandy N	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	e 15 perce quic Hap absence of indice Matrix Moist) 2/1 ors are r	nt slopes plorthods wors) (Type: C=C  % 100	Concentration D	Color (Moist)	wered/Coated Sand Grains;  Mottles  %6 Indicator	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group): tion (Describe to: Bottom Depth 18 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratifier A12 - Thick I A12 - Thick I S1 - Sandy N S4 - Sandy O	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	Mottles  % Indicator	Type	Location  Location  Location  Muck (LRR K, L, MLRA 1- Prairie Redox (LRR K, L) Muck (LRR K, L, M) Use Below Surface (LRR K, L, M) Use Below Surface (LRR K, L) Spodic (MLRA 144A, 1- Spodic (MLRA 144A, 1-	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	Mottles  % Indicator	Dorly draine  Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	wered/Coated Sand Grains;  Mottles  % Indicator	Type  Type	Location  Locati	(e.g. clay, sand, loam)  muck       49B)  K, L, R)  LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  S (MLRA 149B)  45, 149B)  ace
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	wered/Coated Sand Grains:  Mottles  % Indicator    Indicators c	Type  Type	Location  Locati	(e.g. clay, sand, loam)  muck       49B)  K, L, R)  LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  S (MLRA 149B)  45, 149B)  ace
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	Color (I	e 15 perce quic Hap absence of indice Matrix Moist) 2/1 ors are r	nt slopes plorthods ntors) (Type: C=C  % 100	Concentration D	Color (Moist)	Mottles  % Indicator    Indicators c disturbed or distu	Type	Location  Locati	(e.g. clay, sand, loam)  muck
SOILS  Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric:	group):  tion (Describe to Depth 18	Telos-Chesuncook ass Loamy, isotic, frigid the depth needed to document the indi  Horizon	Color (I	15 perce quic Hap beened of indicate the second of the sec	nt slopes  olorthods  %  100  %  100     ot preser  S8 - Polyn  F1 - Loam  F2 - Loam  F3 - Deple  F6 - Redc  F7 - Deple	Concentration D	Color (Moist)	wered/Coated Sand Grains:  Mottles  % Indicator    Indicators c	Type	Location  Locati	(e.g. clay, sand, loam)  muck       49B)  K, L, R)  LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  S (MLRA 149B)  45, 149B)  ace

#### WETLAND DETERMINATION DATA FORM

Northeast and Northcentral Region



Western Maine Renewable Energy Project Project/Site: Wetland ID: W71EI Sample Point Wetland **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name Ind.Status % Cover Dominant 2. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 3. 4 Total Number of Dominant Species Across All Strata: 4 (B) 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 7. 8. Prevalence Index Worksheet 9 Total % Cover of: Multiply by: 10 OBL spp. x 1 = ----35 35 FACW spp. Total Cover = 0 x 2 = 25 50 FAC spp. 10 x 3 = 30 Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 = FACU spp. 0 0 x 5 = UPL spp. 0 0 2. 3. 70 \_\_\_\_(A) Total 115 4. 5. Prevalence Index = B/A = 1.643 6. \_\_ 7. --8. **Hydrophytic Vegetation Indicators:** 9. ✓ Yes ☐ No Rapid Test for Hydrophytic Vegetation 10 Yes □ No Dominance Test is > 50% Total Cover = 0 ✓ Yes □ No Prevalence Index is ≤ 3.0 \* ☐ Yes ✓ No Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 2 meter radius) ☐ Yes ✓ No Problem Hydrophytic Vegetation (Explain) \* Phragmites australis 5 Ν **FACW** \* Indicators of hydric soil and wetland hydrology must be 20 Υ 2 OBL Calamagrostis canadensis present, unless disturbed or problematic. Υ 3. Carex stricta 15 OBL **Definitions of Vegetation Strata:** 4. Equisetum arvense 10 Υ FAC 5. Onoclea sensibilis 5 Ν FACW Υ 6 Phalaris arundinacea 15 **FACW**  $\mbox{\bf Tree}$  -  $_{\mbox{\it Woody plants 3}}$  in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. 10 11 12 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall. 13 14. --Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 70 Woody Vine Stratum (Plot size: 10 meter radius) 2. Hydrophytic Vegetation Present ☑ Yes ☐ No 3. 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Project/Site:											
i roject/one.	Western Mai	ne Renewable Energy	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1:	Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:	Telos-Chesu	ncook-Elliottsville asso	ciation, 3 to 15 perc	ent slopes	6	NV	VI/WWI Classification:	Upland		Wetland ID:	W81EI
Landform:	Terrace			Loc	cal Relief:	Linear				Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.14626951800	L	ongitude:	-69.8651	58585	Datum:	NAD 83	·	
· · · · · ·	drologic cond	itions on the site typ	oical for this time o					□ Yes ☑	No		
-		or Hydrology □sigr				<u> </u>	Are normal circumsta	ances present	?		
_		or Hydrology □nati	•				_	☑ No ˙			
SUMMARY OF		in right crossy — mate	areary preservation	-							
Hydrophytic Ve		ent?		☐ Yes	. ☑ No			Hydric Soils I	Present?		☐ Yes ☑ No
Wetland Hydrol	_			☐ Yes						Vithin A Wetland	
Remarks:	Statewide o			<u> </u>				lis Tills Sallib		VILIIII A VVELIANC	a: Lies Lino
ixemaiks.	Statewide C	irougiit									
HYDROLOGY											
Wetland Hydro	ology Indica	tors (Check here if	indicators are not	present	):	<b>V</b>					
<u>Primary</u>	<u>':</u>	·			•				Secondary:		
	A1 - Surface				B9 - Wate					B6 - Surface Soil	
	A2 - High Wa				B13 - Aqu					B10 - Drainage Pa	
	A3 - Saturation			님	B15 - Mar C1 - Hydr	•			_	B16 - Moss Trim L	
l H	B2 - Sedimer				•	•	ospheres on Living Roots			C2 - Dry-Season \ C8 - Crayfish Burr	
l	B3 - Drift Dep	•					educed Iron			-	isible on Aerial Imagery
l ä	B4 - Algal Ma						eduction in Tilled Soils			D1 - Stunted or St	
l –	B5 - Iron Dep			H	C7 - Thin					D2 - Geomorphic	
	•	on Visible on Aerial Im	agery	$\overline{\Box}$	Other (Ex					D3 - Shallow Aqui	
		Vegetated Concave S			•		•			D4 - Microtopogra	aphic Relief
										D5 - FAC-Neutral	Test
Field Observat	tions:										
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)						
Water Table Pr		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pre	esent?	Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
			·		` ′						
Describe Record	ded Data (stre	eam gauge, monitorin	ig well, aerial photo	s, previo	us inspect	ions), if a	vailable:		N/A		
Remarks:	Statewide o	Irought									
SOILS											
Map Unit Name	<b>:</b> :	Telos-Chesuncook-Elliotts	ville association, 3 to 15	percent slop	oes, very stor	ny S	Series Drainage Class:	Well Drained			
<u> </u>				·	oes, very stor	ny S	Series Drainage Class:	Well Drained			
Taxonomy (Sub	ogroup):	Loamy, isotic, frigid	Lithic Haplohumo	ods			•			atrix)	
Taxonomy (Sub Profile Descrip	ogroup): otion (Describe to the	Loamy, isotic, frigid	Lithic Haplohumo	ods ndicators.) (Type			Series Drainage Class:	Sand Grains; Location: F		atrix)	Texture
Taxonomy (Sub Profile Descrip Top	ogroup): otion (Describe to the Bottom	Loamy, isotic, frigid	Lithic Haplohumo	ods ndicators.) (Type	e: C=Concentratio		RM=Reduced Matrix, CS=Covered/Coated	Sand Grains; Location: F	PL=Pore Lining, M=M		<b>-</b> ∤ .
Taxonomy (Sub Profile Descrip Top Depth	ogroup): otion (Describe to the Bottom Depth	Loamy, isotic, frigid	Lithic Haplohumo icator or confirm the absence of in Ma Color (Moi	ods ndicators.) (Type atrix st)	e: C=Concentratio	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F	PL=Pore Lining, M=M	Location	(e.g. clay, sand, loam)
Taxonomy (Sub Profile Descrip Top Depth 0	ogroup):  otion (Describe to the Bottom Depth 3	Loamy, isotic, frigid the depth needed to document the ind  Horizon  1	Lithic Haplohumo icator or confirm the absence of in Ma Color (Moi 10YR	ods adicators.) (Type atrix st) 3/2	e: C=Concentration % 100	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %	PL=Pore Lining, M=M  Type	Location 	(e.g. clay, sand, loam) fine sandy loam
Taxonomy (Sub Profile Descrip Top Depth 0 3	ogroup):  btion (Describe to the Bottom Depth 3 8	Loamy, isotic, frigid the depth needed to document the ind  Horizon  1 2	Lithic Haplohumo icator or confirm the absence of in Ma Color (Moi	ods adrix st) 3/2 3/2	% 100 100	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location  	(e.g. clay, sand, loam)
Taxonomy (Subprofile Descriped Top Depth 0 3	Degroup): Describe to the Bottom Depth 3 8	Loamy, isotic, frigid ne depth needed to document the ind  Horizon  1  2	Lithic Haplohumo icator or confirm the absence of in  Ma Color (Moi 10YR 7.5YR	ods adrix st) 3/2 3/2	% 100 100	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location   	(e.g. clay, sand, loam) fine sandy loam
Taxonomy (Sub Profile Descrip Top Depth 0 3	ogroup):  btion (Describe to the Bottom Depth 3 8	Loamy, isotic, frigid the depth needed to document the ind  Horizon  1 2	Lithic Haplohumo icator or confirm the absence of in Ma Color (Moi 10YR	ods adrix st) 3/2 3/2	% 100 100	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location  	(e.g. clay, sand, loam) fine sandy loam
Taxonomy (Subprofile Descriped Top Depth 0 3	Degroup): Describe to the Bottom Depth 3 8	Loamy, isotic, frigid ne depth needed to document the ind  Horizon  1  2	Lithic Haplohumo icator or confirm the absence of in  Ma Color (Moi 10YR 7.5YR	ods adrix st) 3/2 3/2	% 100 100	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location   	(e.g. clay, sand, loam) fine sandy loam
Taxonomy (Subprofile Descriped Top Depth 0 3	Depth  3 8	Loamy, isotic, frigid ne depth needed to document the ind  Horizon  1  2	Lithic Haplohumo icator or confirm the absence of ir  Ma Color (Moi 10YR 7.5YR	atrix st) 3/2 3/2	% 100 100	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subprofile Descriped Top Depth 0 3	Bottom Depth 3 8	Loamy, isotic, frigid ne depth needed to document the ind  Horizon  1  2	Lithic Haplohumo icator or confirm the absence of ir  Ma Color (Moi 10YR 7.5YR	atrix st) 3/2 3/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subprofile Descriped Top Depth 0 3	Bottom Depth 3 8	Loamy, isotic, frigid ne depth needed to document the ind  Horizon  1  2	Lithic Haplohumo icator or confirm the absence of ir  Ma Color (Moi 10YR 7.5YR	atrix st) 3/2 3/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subprofile Descriped Top Depth 0 3	Bottom (Describe to the Bottom Depth 3 8	Horizon  1 2	Lithic Haplohumo	atrix st) 3/2 3/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subprofile Descriped Top Depth O Subprofile Descriped Top Depth O Subprofile S	Bottom (Describe to the Bottom Depth 3 8	Horizon 1 2	Lithic Haplohumo	ods ndicators.) (Type atrix st) 3/2 3/2 not pres	% 100 100 sent ):		RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: F  Mottles  %         Indicator	Type s for Proble	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subprofile Descriped Top Depth O Subprofile Descriped Top Depth O Subprofile S	Bottom Depth 3 8 Soil Field In	Horizon 1 2 dicators (check her	Lithic Haplohumo	ods ndicators.) (Type atrix st) 3/2 3/2 not pres	% 100 100 sent ): S8 - Polyv	n, D=Depletion,  /alue Belo	Color (Moist)	Sand Grains; Location: F  Mottles  %       Indicator	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subprofile Descriped Topen Depth Oaster Control of Contr	Bottom Depth 3 8 Soil Field In A1- Histosol	Horizon  1 2 dicators (check here	Lithic Haplohumo	ods ndicators.) (Type atrix st) 3/2 3/2 not pres	% 100 100 sent ): S8 - Polyn	n, D=Depletion,  Value Belo	Color (Moist)	Sand Grains; Location: F  Mottles  %       Indicator	Type s for Proble A10 - 2 cm I	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subsection of the Descripe of the Descripe of the Depth of t	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Horizon  1 2 dicators (check here	Lithic Haplohumo	ods  adicators.) (Type atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyn	n, D=Depletion,  Value Belo	Color (Moist)	Sand Grains; Location: F  Mottles  %       Indicator	Type	Location Muck (LRR K, L, MLRA 14 Prairie Redox (LRR	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Taxonomy (Subsection of the Descripe of the Descripe of the Depth of t	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon  1 2 dicators (check here  pipedon stic en Sulfide d Layers	Lithic Haplohumo	ods  adicators.) (Type atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polys S9 - Thin F1 - Loan	n, D=Depletion,  Value Belo Dark Surf	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Sand Grains; Location: F  Mottles  %       Indicator	Type	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR	(e.g. clay, sand, loam) fine sandy loam fine sandy loam LRR K, L, R)
Taxonomy (Subsection of the Descripe of the De	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Horizon  1 2 dicators (check here bipedon stic en Sulfide d Layers ed Below Dark Surface	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100	r, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Sand Grains; Location: F  Mottles  %       Indicator	Type  s for Proble A10 - 2 cm May S3 - 5cm May S7 - Dark Say S8 - Polyval S9 - Thin Dark	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR Icky Peat of Peat (LUTACE (LRR K, L, M) Use Below Surface (LRR K, L, M) Use Below Surface (LRR K, L, M)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (49B) K, L, R) LRR K, L, R)
Taxonomy (Subserving Profile Descripe Top Depth 0 3	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D	Horizon  1 2 dicators (check here oipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  %  Indicator	Type	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR LICKY Peat of Peat (LICKY Peat of Peat	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 49B) K, L, R) LRR K, L, R) (LRR K, L, R)
Taxonomy (Subsection of the Descripe of the Descripe of the Depth of t	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon  Horizon  1 2 dicators (check here bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator	Type  s for Proble A10 - 2 cm M A16 - Coast S3 - 5cm Mu S7 - Dark S0 S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR Icky Peat of Peat (LIRR K, L, M) ue Below Surface (LRR K, L) ark Surface (LRR K, L) anganese Masses ont Floodplain Soi	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R)
Taxonomy (Subsection of the Description of the Description of the Depth of the Dept	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M	Horizon  1 2 dicators (check here bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator	Type  s for Proble A10 - 2 cm N A16 - Coast S3 - 5cm Mu S7 - Dark Su S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR ICKY Peat of Peat (L INTRACE (LRR K, L, M) USE Below Surface (LRR K, L) AIR Surface (LRR K, L)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R)
Taxonomy (Subserving Profile Descripe Top Depth 0 3	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy R	Horizon  1 2 dicators (check here bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator	Type	Location  matic Soils 1 Muck (LRR K, L, MLRA 14 Prairie Redox (LRR LIFACE (LRR K, L, M) ue Below Surface (LRR K, L) urface (LRR K, L, M) ue Below Surface (LRR K, L) sark Surface (LRR K, L) langanese Masses ont Floodplain Soil Spodic (MLRA 144A, 1) arent Material	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (IS (MLRA 149B) 45, 149B)
Taxonomy (Subsection of the Description of the Description of the Description of the Depth of th	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  Horizon  1  2     dicators (check here  bipedon stic en Sulfide d Layers ed Below Dark Surface  Dark Surface  Muck Mineral Gleyed Matrix  Redox Matrix	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator	Type  s for Proble A10 - 2 cm N A16 - Coast S3 - 5cm Mu S7 - Dark Si S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red P TF12 - Very	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (IS (MLRA 149B) 45, 149B)
Taxonomy (Subserving Profile Descripe Top Depth 0 3	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  1 2 dicators (check here bipedon stic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator	Type  s for Proble A10 - 2 cm N A16 - Coast S3 - 5cm Mu S7 - Dark Su S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR LICKY Peat of Peat (LICKY PEAT OF PEAT	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 49B) K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B) face
Taxonomy (Subsection of the Description of the Description of the Description of the Depth of th	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy N S4 - Sandy N S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  Horizon  1  2     dicators (check here  bipedon stic en Sulfide d Layers ed Below Dark Surface  Dark Surface  Muck Mineral Gleyed Matrix  Redox Matrix	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 49B) K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B) face
Taxonomy (Sub Profile Descrip Top Depth 0 3 NRCS Hydric	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy M S4 - Sandy M S5 - Sandy R S6 - Stripped S7 - Dark Su	Horizon  1 2 dicators (check here bipedon stic en Sulfide d Layers ed Below Dark Surface Oark Surface Muck Mineral Gleyed Matrix Redox Matrix rface (LRR R, MLRA 149B)	Lithic Haplohumo	atrix st)  3/2 3/2  not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo F8 - Redo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator  Indicator  Indicators of disturbed or	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 49B) K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R) IS (MLRA 149B) 45, 149B) face ust be present, unless
Taxonomy (Subsection of the Description of the Description of the Description of the Depth of th	Bottom Depth 3 8 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy M S4 - Sandy M S5 - Sandy R S6 - Stripped S7 - Dark Su	Horizon  Horizon  1  2     dicators (check here  bipedon stic en Sulfide d Layers ed Below Dark Surface  Dark Surface  Muck Mineral Gleyed Matrix  Redox Matrix	Lithic Haplohumo	atrix st)  3/2 3/2 not pres	% 100 100 sent ): S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deplo F6 - Redo F7 - Deplo F8 - Redo	rn, D=Depletion,	Color (Moist)	Sand Grains; Location: F  Mottles  % Indicator  Indicators of	Type	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR LICKY Peat of Peat (LICKY PEAT OF PEAT	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 49B) K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B) face

### **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.)			
Tree Stratum (Plo	ot size: 10 meter radius)				Desire and Trad Mark about
	<u>Species Name</u>	% Cover [	-	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	15	Y	FAC	
2.	Larix laricina	5	N	FACW	Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.	Picea rubens	5	N	FACU	
4.	Fraxinus pennsylvanica	5	N	FACW	Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u><b>50.0%</b></u> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cove	er = 30			FACW spp. 10 x 2 = 20
					FAC spp. 25 x 3 = 75
Sapling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. 18 x 4 = 72
1.	Acer rubrum	10	N	FAC	UPL spp. $0 \times 5 = 0$
2.					
3.					Total 53 (A) 167 (B)
4.	_ <del></del>				10tal <u>55 (A) 107 (B)</u>
5.					Dravalence Index = B/A = 2.454
6.	<del></del>	<b></b>			Prevalence Index = B/A = 3.151
	<del></del>				
7.		<b></b>			
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cove	er = 10			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Aralia nudicaulis	10	Υ	FACU	* Indicators of budric soil and watland budrals ay must be
2.	Phegopteris hexagonoptera	2	Ν	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Tsuga canadensis	1	N	FACU	present, unless disturbed of problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.	<b></b>	<u></u>			woody plants less than 3.28 ft. tall.
	_ <del></del>	<b></b>	<b></b>		
14.	<del></del>	<b></b>			Woody Vines - All woody vines greater than 3.28 ft. in height.
15.					vvoouy villes - All woody villes greater than 3.20 it. in neight.
	Total Cove	er = 13			
	(5)				
vvoody Vine Strat	um (Plot size: 10 meter radius)				
1.	<del></del>				
2.					
3.					Hydrophytic Vegetation Present ☐ Yes ☑ No
4.					
5.					
	Total Cove	er = 0			
Remarks:					
Additional Ren	narks:				



Project/Site:	Western Mai	ine Renewable Energy	Project				Project #	194-7130		Date:	09/09/20
Applicant:		ine Renewables, LLC	rioject				r rojcot π.	134-7 100		County:	Somerset
Investigator #		o . tonomasioo, 220		Invest	igator #2:					State:	ME
Soil Unit:		ıncook association, 3 to	15 percent :				/I/WWI Classification	: PFO		Wetland ID:	W81EI
Landform:	Terrace	,	'	•	cal Relief:					Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.148580	L	ongitude:	-69.86186	312	Datum	: NAD 83		
Are climatic/h	ydrologic con	ditions on the site ty	pical for th	is time o	f year? (If	no, explain i	n remarks)	□ Yes ☑	No	]	
Are Vegetatio	on □, Soil □,	or Hydrology □ sig	nificantly d	isturbed	?		Are normal circumst	ances presen	ıt?		
Are Vegetatio	on □, Soil □,	or Hydrology □ nat	turally prob	lematic?	•		□ Yes	☑ No			
<b>SUMMARY O</b>	F FINDINGS										
Hydrophytic V	egetation Pre	esent?		✓ Yes	□ No	)		Hydric Soils	Present?		
Wetland Hydr	rology Present	t?		✓ Yes	□ No			Is This Sam	pling Point	Within A Wetla	nd? ☑ Yes □ No
Remarks:	Statewide of	drought									
LIVEROLOGY	7										
HYDROLOGY		atawa (Obsalahawa)	:f :!:4								
_		ators (Check here i	if indicators	s are not	present				Cocondony		
<u>Prima</u>	<u>ıy.</u> ቯ A1 - Surface	Water		[J]	B9 - Wate	er-Stained	Leaves		<u>Secondary</u> □	B6 - Surface Soil	l Cracks
	☐ A2 - High Wa			_	B13 - Aqı	uatic Fauna	a			B10 - Drainage F	
]	☐ A3 - Saturati					rl Deposits			_	B16 - Moss Trim	
	<ul><li>□ B1 - Water N</li><li>□ B2 - Sedime</li></ul>				C1 - Hydi		spheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bu	
	☐ B3 - Drift De	•					educed Iron			•	/isible on Aerial Imagery
<u> </u>	☐ B4 - Algal Ma						duction in Tilled Soils			D1 - Stunted or S	
	☐ B5 - Iron Dep	posits ion Visible on Aerial Ima	ogory/	_	C7 - Thin					D2 - Geomorphic D3 - Shallow Aqu	
		y Vegetated Concave S			Other (Ex	кріант ін Ке	illaiks)			D4 - Microtopogr	
		, 0								D5 - FAC-Neutra	-
Field Observ	ations:										
Surface Wate	er Present?	☐ Yes ☑ No	Depth:		(in.)			Watland Hy	drology B	rocont?	l Voc. □ No
Water Table F	Present?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology P	resent?	] Yes □ No
Saturation Pre	esent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Reco	orded Data (str	ream gauge, monitori	ng well, aer	ial photo	s, previou	s inspection	ons), if available:		N/A		
Remarks:	Statewide	drought									
SOILS											
Map Unit Nan		Telos-Chesuncook as	sociation, 3 t	o 15 perce	ent slopes	S	eries Drainage Class	: Somewhat p	oorly drain	ed	
Taxonomy (S	<del></del>	Loamy, isotic, frigio	·								
		the depth needed to document the in	dicator or confirm the		icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=		ains; Location: PL=P	ore Lining, M=Matrix)	<del>-</del> ,
Тор	Bottom			Matrix	T 2/		<u> </u>	Mottles	<del> </del>	T	Texture
Depth	Depth	Horizon	Color (	<del>,                                     </del>	%		Color (Moist)	%	Туре	Location	l/a a alay aand laam
0	8		10YR	2/1	100						, ,
8	14		400	0/4	+						fine sandy loam
			10YR	2/1	40	7.5YR	4/6	15	 C	 M	, ,
			10YR 	2/1	+	7.5YR 10YR	 4/6 4/1		 C D	 M M	fine sandy loam
					40	+		15			fine sandy loam
					40	+	4/1	15 45	D	М	fine sandy loam
					40	+	4/1 	15 45 	D	M 	fine sandy loam fine sandy loam
  	  	 	   		40	+	4/1   	15 45    	  	M	fine sandy loam fine sandy loam
  	   	    	   	   	40    	10YR    	4/1  	15 45    	   	M	fine sandy loam fine sandy loam
	    c Soil Field I	  	   	     ators are	40     not prese	10YR     ent	4/1    	15 45     Indicator	     rs for Proble	M	fine sandy loam fine sandy loam
	   	     ndicators (check he	   	     ators are	40     not prese	10YR    ent 口: value Belov	4/1 w Surface (LRR R, MLRA 149B)	15 45     Indicato	D rs for Proble	M	fine sandy loam fine sandy loam
] [	    c Soil Field II A1- Histosol A2 - Histic E A3 - Black H	ndicators (check here)	   	     ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan	10YR ent □: value Belov Dark Surfa	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	15 45     Indicato	D rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M	M ematic Soils <sup>1</sup> Muck (LRR K, L, MLRA t Prairie Redox (LR	fine sandy loam fine sandy loam
] [		ndicators (check here) pipedon istic en Sulfide	   	     ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	10YR ent	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	15 45     Indicato	D A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S	M	fine sandy loam fine sandy loam (LRR K, L, R)
] [		ndicators (check here) pipedon istic en Sulfide d Layers	    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	10YR value Below Dark Surfa ny Mucky Mu	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	15 45     Indicato	D	M	fine sandy loam fine sandy loam (LRR K, L, R)
] [ ] [ ] [		ndicators (check here) pipedon listic en Sulfide d Layers ed Below Dark Surface	    ere if indica	     ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	10YR ent	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c	15 45     Indicato	D	M	fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R)
] [ ] [ ] [		ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral	    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	10YR value Below Dark Surfa ny Mucky M ny Gleyed eted Matrix ox Dark Su	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45     Indicato	D	M	fine sandy loam fine sandy loam
] [ ] [ ] [		ndicators (check here) pipedon istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix	    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	10YR	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45     Indicato	D	M	fine sandy loam fine sandy loam
] [ ] [ ] [			    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	10YR	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45     Indicato	D rs for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-N F19 - Piedn TA6 - Mesic	M	fine sandy loam fine sandy loam
] [ ] [ ] [			    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	10YR	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45 Indicato	D	M	fine sandy loam fine sandy loam
] [ ] [ ] [		ndicators (check here) pipedon listic en Sulfide d Layers led Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox d Matrix	    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	10YR	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45 Indicator	D	M	fine sandy loam fine sandy loam
Restrictive Layer			    ere if indica	    tors are	40 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo	10YR	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45 Indicator	D	M	fine sandy loam     149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) DIS (MLRA 149B) 145, 149B) rface y must be present, unless
		ndicators (check here) pipedon listic en Sulfide d Layers led Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox d Matrix	    ere if indica	    ators are	40     not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	10YR	4/1 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix c rface Surface	15 45 Indicator	D	M	fine sandy loam fine sandy loam

# 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	e species.)			
	ot size: 10 meter radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	20	Υ	FAC	
2.	Picea mariana	20	Υ	FACW	Number of Dominant Species that are OBL, FACW, or FAC:4(A)
3.	Picea rubens	10	N	FACU	
4.	Betula alleghaniensis	20	Υ	FAC	Total Number of Dominant Species Across All Strata: 5 (B)
5.					··
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 6 $\times 1 = 6$
10.	Total Cover =	70			FACW spp. 45 x 2 = 90
	Total Gover –	70			FAC spp. 46
Sanling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. 22 x 4 = 88
1	Acer rubrum	5	N	FAC	UPL spp. $0   x   5 = 0$
2.	Thuja occidentalis	5	N	FACW	OFL spp
3.	•				Total 440 (A) 222 (D)
	<del></del>				Total 119 (A) 322 (B)
4.	<del></del>				Describer as India D/A 0.700
5.	<del></del>				Prevalence Index = B/A = 2.706
6.					
7.	<del></del>				
8.	<del></del>				Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cover =	10			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	ot size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Phegopteris hexagonoptera	2	n	FACU	* In discate we of levelvie a sile and weathered by whate any marks he
2.	Tiarella cordifolia	10	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Osmundastrum cinnamomeum	15	Υ	FACW	present, unless disturbed or problematic.
4.	Onoclea sensibilis	5	n	FACW	Definitions of Vegetation Strata:
5.	Osmunda spectabilis	5	n	OBL	
6	Calamagrostis canadensis	1	n	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Cornus canadensis	1	n	FAC	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.	_ <del></del>				
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
10.	Total Cover =	39			Troody Times
	Total Cover –	39			
Woody Vina Strati	um (Plot size: 10 meter radius)				
1					
2.					
3.	<u></u>				Hydrophytic Vegetation Present ☑ Yes ☐ No
4.			<del></del>		ilydiopilytic vegetation riesellt wites with
5.	<del></del>	<b></b>	<b></b>		
J.	Total Cover =	0	<del></del>		
Remarks:	Total Cover =	U			
Nemains.					
A al aliti a a a l 🗖					
Additional Rei	пагкѕ:				



Are Vegetation	Western Mair Emmy Irvin Monarda-Telo Terrace See topo map drologic cond ☑, Soil □, □, Soil □,	ne Renewable Energy Prone Renewables, LLC os complex, 0 to 8 perce  Latitude: ditions on the site typor Hydrology □ signor Hydrology □ naturation	ent slopes, very ston 45.15494990000 pical for this time nificantly disturbe	Loc Loc of year? ed?	igator #2: cal Relief: ongitude: (If no, expla	NV Linear -69.8527	WI/WWI Classification 01855	Datum:	NAD 83 No i?	Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W92EI Upland
Hydrophytic Ve		sent?		☐ Yes	☑ No			Hydric Soils	Present?		□ Yes ☑ No
Wetland Hydro	_			☐ Yes				_ <del>_</del>		Within A Wetlar	
Remarks:	Statewide of	drought; wetland occ	urs within USAF	Radar S	Station fie	ld					
HYDROLOGY Wetland Hydr	ology Indica	ators (Check here if i	indicators are no	ot preser	nt ):	V					
Primary	A1 - Surface A2 - High Wa A3 - Saturatio B1 - Water M B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep	Water ater Table on larks ot Deposits oosits	gery		B9 - Wate B13 - Aqua B15 - Marl C1 - Hydro C3 - Oxidia C4 - Prese	er-Stained atic Faun I Deposits ogen Sulfi zed Rhizo ence of R ent Iron Re Muck Sur	a side Odor ospheres on Living Roots educed Iron eduction in Tilled Soils face			B6 - Surface Soil B10 - Drainage P B16 - Moss Trim C2 - Dry-Season C8 - Crayfish Bur	atterns Lines Water Table rows isible on Aerial Imagery tressed Plants Position itard aphic Relief
Field Observater Surface Water Water Table Pr Saturation Pres	Present? resent? sent?	☐ Yes ☑ No ☐ Yes ☑ No ☐ Yes ☑ No	Depth: Depth: Depth:		(in.) (in.) (in.)			Wetland Hyd		esent? □	l Yes ☑ No
Remarks:	Statewide o	eam gauge, monitoring	well, aerial photo	s, previol	us inspecti	ions), it a	avallable:		N/A		
itelliaiks.	Statewide	nought									
SOILS											
Map Unit Name		Monarda-Telos complex	•		stony	5	Series Drainage Class	: Well Drained			
Taxonomy (Sub	•	Loamy, isotic, frigid				tion D-Donloti	on, RM=Reduced Matrix, CS=Covered/Co	antad Cand Crains, Langtin	n. Di -Dara Linina A	A_Matrix)	
Top	Bottom	The depth needed to document the indic		atrix	/pe. C=Concentrat	поп, р-реріец	on, Rivi-Reduced Mains, CS-Covered/CC	Mottles	ii. PL-Pole Liillig, N	n-iviatrix)	Texture
Depth	Depth	Horizon	Color (Moi		%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	2	А	10YR	2/1	100						fine sandy loam
2	3	E	10YR	6/1	100						fine sandy loam
3	12	В	10YR	2/1	100						fine sandy loam
<del></del>						 					
	<del> </del>							<del> </del>			
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S4 - Sandy R S5 - Sandy R S6 - Stripped	stic en Sulfide d Layers ed Below Dark Surface Park Surface fluck Mineral Gleyed Matrix	e if indicators are		S8 - Polyv S9 - Thin [	Dark Surfa ny Mucky I ny Gleyed eted Matri nx Dark Su eted Dark	x urface Surface	Indicators of	A10 - 2 cm I A16 - Coast S3 - 5cm Mu S7 - Dark Su S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red P TF12 - Very Other (Expla	matic Soils 1 Muck (LRR K, L, MLRA 1 Prairie Redox (LRR Lucky Peat of Peat ( urface (LRR K, L, M) lue Below Surface ark Surface (LRR K, L langanese Masses nont Floodplain Soils Spodic (MLRA 144A, 1) Parent Material Shallow Dark Surfain in Remarks) Lation and wetland hydrology	(LRR K, L, R) (LRR K, L, R) (LRR K, L) (LRR K, L) (L) (S (LRR K, L, R) (IS (MLRA 149B) 145, 149B)
Restrictive Layer (If Observed)  Remarks:	Туре:	LEDGE		Depth:	12			Hydric Soil	Present?		Yes ☑ No

TETRA TECH

Project/Site: Western Maine Renewable Energy Project Wetland ID: W92EI Sample Point Upland

VEGETATION	(Species identified in all uppercase are non-native speci	es.)			
Tree Stratum (Plo	t size: 10 meter radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Tsuga canadensis	10	Υ	FACU	
2.	Thuja occidentalis	5	N	FACW	Number of Dominant Species that are OBL, FACW, or FAC:4(A)
3.	Betula papyrifera	10	Υ	FACU	
4.	Acer rubrum	5	N	FAC	Total Number of Dominant Species Across All Strata:9(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 44.4% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 $x 1 = 0$
	Total Cover =	= 30			FACW spp. 25 x 2 = 50
	Total Gover	00			FAC spp. 35
Sanling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 70 x 4 = 280
Japiniy/Jinub Jira	Thuja occidentalis	15	Υ	FACW	
2.	•	20	Y	FACU	UPL spp 0
	Betula papyrifera				Total 420 (A) 425 (D)
3.	llex verticillata	5	N	FACW	Total 130 (A) 435 (B)
4.	<del></del>				,.
5.					Prevalence Index = B/A = 3.346
6.	<del></del>				
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cover =	40			☐ Yes ☐ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Clintonia borealis	10	Υ	FAC	
2.	Cornus canadensis	10	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Symphyotrichum ericoides	10	Υ	FACU	present, unless disturbed or problematic.
4.	Medeola virginiana	10	Υ	FACU	Definitions of Vegetation Strata:
5.	Maianthemum canadense	5	N	FACU	
6	Osmunda claytoniana	10	Y	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Symphoricarpos albus	5	N	FACU	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
					tall.
10.	<del></del>				-
11.	<del></del>				Herb - All herbaceous (non-woody) plants, regardless of size, and
12.	<del></del>				woody plants less than 3.28 ft. tall.
13.	<del></del>				
14.	<del></del>				
15.	<del></del>				Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	60			
Woody Vine Strate	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present □ Yes ☑ No
4.					
5.					
<del>-</del>	Total Cover =	= 0			
Remarks:					

Additional Remarks:	



Project/Site:	Western Mair	ne Renewable Energy Pi	roject				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mair	ne Renewables, LLC								County:	Somerset
Investigator #1:	: Emmy Irvin			Investi	igator #2:					State:	ME
Soil Unit:		os complex, 0 to 8 perce	ent slopes very stor		<u>J</u>		VI/WWI Classification:	PFO		Wetland ID:	W92EI
Landform:	Terrace		5.5 p 55, 7 5.5	-	al Relief:					Sample Point:	Wetland
Slope (%):		Latitude:	45.155391°		ongitude:		10°	Datum:	NAD 83	Campie i oint.	Wollding
- · · · · · · ·	See topo map	ditions on the site typ						☐ Yes ☑	No	1	
•		<u> </u>			(ІТ ПО, ехріа	ain in remain T	·			-	
		or Hydrology □ sign	•				Are normal circumsta	•	[ /		
		or Hydrology □ natu	Jrally probleman	C !			□ Yes	☑ No			
SUMMARY OF											
Hydrophytic Ve	•			☑ Yes				Hydric Soils			☑ Yes □ No
Wetland Hydro								Is This Samp	oling Point	Within A Wetlan	nd?
Remarks:	Statewide o	drought; wetland occ	urs within USAF	Radar S	Station fie	eld					
<b>HYDROLOGY</b>											
Wetland Hydr	ology Indica	itors (Check here if i	indicators are no	nt nresen	nt ):						
Primary		Check hele ii i	ilidicators are ric	n presen	, , , , , , , , , , , , , , , , , , ,	Ш			Secondary:		
	<u>··</u>	Water			B9 - Wate	er-Stained	l eaves			B6 - Surface Soil	Cracks
l ä	A2 - High Wa			_	B13 - Aqu					B10 - Drainage Pa	
<b>l</b>	A3 - Saturation				B15 - Mar					B16 - Moss Trim I	
	B1 - Water M	arks			C1 - Hydro	•				C2 - Dry-Season	Water Table
	B2 - Sedimen	•					spheres on Living Roots			C8 - Crayfish Buri	
<b>l</b> _	B3 - Drift Dep						educed Iron				isible on Aerial Imagery
	B4 - Algal Ma						duction in Tilled Soils			D1 - Stunted or St	
	B5 - Iron Dep			_	C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Imag		$\sqcup$	Other (Exp	plain in Re	emarks)			D3 - Shallow Aqui	
	po - Sharseiñ	Vegetated Concave Su	пасе							D4 - Microtopogra D5 - FAC-Neutral	
=:							<b>_</b>			DO TITO HOGGE.	1631
Field Observat					7-						
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	esent?	Yes □ No
Water Table Pr	resent?	☐ Yes ☑ No	Depth:		(in.)			William II)	urology		103 🗀 110
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	lad Data (stre	eam gauge, monitoring	well perial photo	nravioi		ione) if a	voilable:		N/A		
	•		Well, actial prioro	S, previou	19 IIIəheri	10115), 11 a	Valiabie.		IN/A		
Remarks:	Statewide o	irought									
SOILS											
Map Unit Name	e:	Monarda-Telos complex	x, 0 to 8 percent slo	pes, very	stony	S	Series Drainage Class:	Well Drained			
Taxonomy (Sub	bgroup):	Loamy, isotic, frigid	Lithic Haplohum	iods							
	<del>U</del> 1 /	he depth needed to document the indic	cator or confirm the absence of	indicators.) (Ty	pe: C=Concentra	ation, D=Depletio	n, RM=Reduced Matrix, CS=Covered/Coa	ated Sand Grains; Location	n: PL=Pore Lining, N	л=Matrix)	
Тор	Bottom			atrix				Mottles			Texture
Depth	Depth	Horizon	Color (Moi		%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
Ο	8	1	10YR	4/1	80	10YR	3/6	20	C	M	fine sandy loam
0	_	2			75				1		
8	18	2	2.5Y	5/2		10YR	3/6	25	С	M	fine sandy loam
											<del></del>
NRCS Hydric	Soil Field In	dicators (check her	e if indicators ar	e not pre	sent	): 🗆		Indicator	s for Proble	matic Soils <sup>1</sup>	
<b>l</b>	A1- Histosol						w Surface (LRR R, MLRA 149B)			Muck (LRR K, L, MLRA 1	
_	A2 - Histic Ep	•					ACE (LRR R, MLRA 149B)			Prairie Redox (LRR	· · /
							Mineral (LRR K, L)			ucky Peat of Peat (	LRR K, L, R)
	A4 - Hydroge				F2 - Loam					urface (LRR K, L, M)	
	A5 - Stratified	•			F3 - Deple				•	lue Below Surface	
	A11 - Deplete A12 - Thick D	ed Below Dark Surface			F6 - Redo F7 - Deple					ark Surface (LRR k, L langanese Masses	,
	S1 - Sandy M				F8 - Redo					ianganese Masses iont Floodplain Soil	
l	S4 - Sandy M			Ц	10-11600	v Debless	510115			: Spodic (MLRA 144A, 1	
l	S5 - Sandy R	•								Parent Material	40, 1400)
l –										Shallow Dark Surf	ace
_								<del>-</del>	_		
									Other (Expla	ain in Remarks)	
		face (LRR R, MLRA 149B)						<sup>1</sup> Indicators of	of hydrophytic veget	ain in Remarks) tation and wetland hydrology	
Postrictive Layer								<sup>1</sup> Indicators of disturbed of	of hydrophytic veget or problematic.	,	
Restrictive Layer (If Observed)		face (LRR R, MLRA 149B)		Depth:				<sup>1</sup> Indicators of	of hydrophytic veget or problematic.	,	
Restrictive Layer (If Observed)	S7 - Dark Sur	face (LRR R, MLRA 149B)		Depth:				<sup>1</sup> Indicators of disturbed of	of hydrophytic veget or problematic.	tation and wetland hydrology	must be present, unless



Project/Site: Western Maine Renewable Energy Project Wetland ID: W92EI Sample Point Wetland

VEGETATION	(Species identified in all uppercase are non-native	species.)			
	ot size: 10 meter radius)	<i>-</i>			
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	Thuja occidentalis	20	Υ	FACW	
2.	Betula alleghaniensis	15	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 7 (A)
3.	Picea mariana	10	Υ	FACW	
4.	Pinus strobus	2	N	FACU	Total Number of Dominant Species Across All Strata: 8 (B)
5.					· ` <i>`</i>
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 15 <b>x 1 =</b> 15
	Total Co	ver = 47			FACW spp. 80 x 2 = 160
					FAC spp. 15 x 3 = 45
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp. 17 x 4 = 68
1.	Spiraea alba	10	Υ	FACW	UPL spp. $0   x   5 = 0$
2.	Thuja occidentalis	15	Υ	FACW	
3.					Total 127 (A) 288 (B)
4.					
5.					Prevalence Index = B/A = 2.268
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Co	ver = 25			 ☑ Yes ☐ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Scirpus cyperinus	10	Υ	OBL	
2.	Eutrochium fistulosum	5	Ν	FACW	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Achillea millefolium	10	Υ	FACU	precent, amese distarbed of preblematic.
4.	Onoclea sensibilis	20	Υ	FACW	Definitions of Vegetation Strata:
5.	Carex stricta	5	N	OBL	
6	Anaphalis margaritacea	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.					taii.
11.	<del></del>				
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					woody plants less than 5.25 ft. tail.
14.					
15.	<del></del>				Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Co	ver = 55			
Woody Vine Strat	um (Plot size: 10 meter radius)				
1.	<del></del>				
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					
5.					
,	Total Co	ver = 0			
Remarks:					

Additional Remarks:		



Project/Site:											
Froject/Site.	Western Maii	ne Renewable Energy	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1:	Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:	_	ham complex, 0 to 3 per	cent clones, very stony		.gate: //_:		VI/WWI Classification:	Unland		Wetland ID:	W98EI
Landform:	Terrace	mani complex, o to 5 per	cent slopes, very storry	Loc	cal Relief:		VI, VV VVI Olassilloation.	Opiana			
		المنائد ا	45 45000400400				20	Datum	NAD 02	Sample Point:	Upland
Slope (%):	See topo map	Latitude			ongitude:		26		NAD 83		
-		itions on the site type		_	f no, explain	in remarks)		□ Yes ☑	No		
Are Vegetation	☑, Soil □, o	or Hydrology □sig	nificantly disturbed	l?			Are normal circumsta		?		
Are Vegetation	□, Soil □, o	or Hydrology   □nat	urally problematic	?			□ Yes	☑ No			
<b>SUMMARY OF</b>	<b>FINDINGS</b>										
Hydrophytic Ve		sent?		✓ Yes	□ No			Hydric Soils I	Present?		□ Yes ☑ No
Wetland Hydrol	•			☐ Yes						Vithin A Wetland	
			ICAE Dadar Statio					is This Gamp	illig i oliti v	VILLIIII A VVELIAITO	
Remarks:	Statewide	drought; occurs in L	ISAF Kadai Statio	n neid							
<b>HYDROLOGY</b>											
Wotland Hydr	ology Indios	store (Chaok hara it	f indicators are not	procent	١.						
	•••	ators (Check here it	indicators are not	present	):	V			0		
Primary		Motor			DO Mata	r Ctainad I	001/00		Secondary:		Crooke
	A1 - Surface				B9 - Wate				<del></del>	B6 - Surface Soil (	
	A2 - High Wa A3 - Saturation				B13 - Aqu B15 - Mar					B10 - Drainage Pa B16 - Moss Trim L	
	B1 - Water M				C1 - Hydro	•			_	C2 - Dry-Season \	
l ä	B2 - Sedimer				-	-	spheres on Living Roots			C8 - Crayfish Burn	
l	B3 - Drift Dep	•					duced Iron			=	sible on Aerial Imagery
l	B4 - Algal Ma						duction in Tilled Soils			D1 - Stunted or St	0,
l ä	B5 - Iron Dep			H	C7 - Thin					D2 - Geomorphic	
l –		on Visible on Aerial Ima	agerv	_	Other (Exp					D3 - Shallow Aquit	
		Vegetated Concave S		-	(		,			D4 - Microtopogra	
_	, ,	J								D5 - FAC-Neutral	
Field Observat	tiono:										
		_									
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	irology Pre	esent?	Yes ☑ No
Water Table Pr	esent?	☐ Yes ☑ No	Depth:		(in.)			Wolland Try	arology i it		100 = 140
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Dagarika Dagard	lad Data Jatos					\ : <b>f</b>	Habia.		NI/A		
	•	am gauge, monitorin	g well, aerial priotos	, previous	sinspectio	ns), II ava	lliable:		N/A		
Remarks:	Statewide of	drought									
SOILS											
Map Unit Name	7.										
THE STATE OF		Monarda-Burnham co	mplex 0 to 3 percent	slopes ve	erv stony	Ç	Series Drainage Class:	Well Drained			
Tayonomy (Sub		Monarda-Burnham co			ery stony	Ç	Series Drainage Class:	Well Drained			
Taxonomy (Sub	ogroup):	Loamy, isotic, frigio	d Lithic Haplohumo	ods							
Profile Descrip	ogroup): otion (Describe to t	Loamy, isotic, frigio	Lithic Haplohumo	ods ndicators.) (Type			Series Drainage Class:	Sand Grains; Location: P		atrix)	Tankona
	ogroup):	Loamy, isotic, frigion he depth needed to document the inc	d Lithic Haplohumo	ods ndicators.) (Type atrix	e: C=Concentratio		RM=Reduced Matrix, CS=Covered/Coated		L=Pore Lining, M=Ma		Texture
Profile Descrip	ogroup): otion (Describe to t	Loamy, isotic, frigio	Lithic Haplohumo	ods ndicators.) (Type atrix				Sand Grains; Location: P		atrix) Location	Texture (e.g. clay, sand, loam)
Profile Descrip	ogroup): otion (Describe to t Bottom	Loamy, isotic, frigion he depth needed to document the inc	d Lithic Haplohumo	ods ndicators.) (Type atrix	e: C=Concentratio		RM=Reduced Matrix, CS=Covered/Coated	Sand Grains; Location: P	L=Pore Lining, M=Ma		
Top Depth	ogroup): otion (Describe to to Bottom Depth	Loamy, isotic, frigion he depth needed to document the inc	d Lithic Haplohumo	ods adicators.) (Type atrix st) 3/1	e: C=Concentratio	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated  Color (Moist)	Sand Grains; Location: P  Mottles  %	L=Pore Lining, M=Ma	Location	(e.g. clay, sand, loam) fine sandy loam
Top Depth 0 8	Degroup): Describe to to the second s	Loamy, isotic, frigion he depth needed to document the incompany of the depth needed to document the depth	d Lithic Haplohumo	ods adicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	L=Pore Lining, M=Ma  Type	Location  	(e.g. clay, sand, loam)
Top Depth 0	Degroup): Describe to to the second s	Loamy, isotic, frigion he depth needed to document the incompany of the depth needed to document the depth	Color (Moi 10YR 2.5Y	ods adicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location   	(e.g. clay, sand, loam) fine sandy loam
Top Depth 0 8	Degroup): Describe to to the second s	Loamy, isotic, frigion he depth needed to document the incompany of the depth needed to document the depth	d Lithic Haplohumo	ods adicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	L=Pore Lining, M=Ma  Type	Location  	(e.g. clay, sand, loam) fine sandy loam
Top Depth 0 8	Degroup): Describe to to the second s	Loamy, isotic, frigion he depth needed to document the incompany of the depth needed to document the depth	Color (Moi 10YR 2.5Y	ods adicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location   	(e.g. clay, sand, loam) fine sandy loam
Top Depth 0 8	Bottom Depth 8 11	Loamy, isotic, frigion he depth needed to document the income Horizon  1 2	Color (Moi 10YR 2.5Y	ods adicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
Top Depth 0 8	Depth  8 11	Loamy, isotic, frigion he depth needed to document the income Horizon  1 2	Color (Moi 10YR 2.5Y	ods adicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Top Depth 0 8	Bottom Depth 8 11	Horizon  1 2	Color (Moi 10YR 2.5Y	ods ndicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth  0 8	Depth Bottom Depth 8 11	Horizon  1 2	Color (Moi 10YR 2.5Y	ods ndicators.) (Type atrix st) 3/1 5/2	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In	Horizon  1 2	Color (Moi 10YR 2.5Y	ods ndicators.) (Type atrix st) 3/1 5/2 not pres	% 100 100 sent ):	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles % Indicator	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol	Horizon  1 2 dicators (check he	Color (Moi 10YR 2.5Y	ods ndicators.) (Type atrix st) 3/1 5/2 not pres	% 100 100 sent ): S8 - Polyv	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %       Indicator	Type	Location matic Soils <sup>1</sup> Muck (LRR K, L, MLRA 14	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep	Horizon  1 2 dicators (check he	Color (Moi 10YR 2.5Y	ods ndicators.) (Type atrix st) 3/1 5/2 not pres	% 100 100 sent ): S8 - Polyv S9 - Thin	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location Muck (LRR K, L, MLRA 14 Prairie Redox (LRR R	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Horizon  1 2 dicators (check he	Color (Moi 10YR 2.5Y	ods adicators.) (Type atrix st)  3/1 5/2 not pres	% 100 100 sent ): S8 - Polyv S9 - Thin I	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR R LCKy Peat of Peat (L	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Horizon  1 2 dicators (check here)	Color (Moi 10YR 2.5Y	ods ndicators.) (Type atrix st)  3/1  5/2     not pres	% 100 100 Sent ): S8 - Polyv S9 - Thin I F1 - Loam F2 - Loam	n, D=Depletion,  y alue Belov Dark Surfa y Mucky N y Gleyed I	Color (Moist)  W Surface (LRR R, MLRA 149B) ICE (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Sand Grains; Location: P  Mottles  %	Type	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR R Icky Peat of Peat (L	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  RPB) K, L, R) RR K, L, R)
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon  Horizon  1 2 dicators (check here)  Dipedon stic in Sulfide Hayers	Color (Moi 10YR 2.5Y ere if indicators are	ods ndicators.) (Type atrix st)  3/1  5/2     not pres	% 100 100 Sent ): S8 - Polyv S9 - Thin I F1 - Loam F2 - Loam F3 - Deple	n, D=Depletion,	Color (Moist)  W Surface (LRR R, MLRA 149B) ICE (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR R LICKY Peat of Peat (L Urface (LRR K, L, M) Lue Below Surface (L	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  LRR K, L, R)
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Horizon  Horizon  1  2  dicators (check here)  Silic en Sulfide Hayers  Horizon  All to the depth needed to document the incomplete in the incom	Color (Moi 10YR 2.5Y ere if indicators are	ods ndicators.) (Type atrix st)  3/1  5/2     not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location  Muck (LRR K, L, MLRA 14 Prairie Redox (LRR R Icky Peat of Peat (L Irface (LRR K, L, M) Le Below Surface (LRR K, L)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D	Horizon  Horizon  1  2      dicators (check here)  Dipedon stic in Sulfide I Layers and Below Dark Surface Dark Surface Dark Surface	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR K LICKY Peat of Peat (L Irface (LRR K, L, M) Lue Below Surface (LRR K, L) anganese Masses	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  (9B) K, L, R) RR K, L, R) LRR K, L, R)
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M	Horizon  Horizon  1  2     dicators (check here)  bipedon stic in Sulfide di Layers ed Below Dark Surface duck Mineral	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location  matic Soils   Muck (LRR K, L, MLRA 14 Prairie Redox (LRR K Icky Peat of Peat (L Irface (LRR K, L, M) Le Below Surface (LRR K, L) anganese Masses ont Floodplain Soils	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth  0 8 Under the content of the	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G	Horizon  Horizon  1  2      dicators (check here)  Stic  n Sulfide Layers  d Below Dark Surface  Dark Surface  Juck Mineral  Bleyed Matrix	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth 0 8 NRCS Hydric	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A12 - Thick E S1 - Sandy M S4 - Sandy R	Horizon  Horizon  1 2 dicators (check here)  Sipedon stic in Sulfide it Layers ed Below Dark Surface luck Mineral sleyed Matrix ledox	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %  Indicator	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  (9B) (X, L, R) (RR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) (15, 149B)
Profile Descrip  Top Depth  0 8 Under the content of the	Bottom Depth  8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick D S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  Horizon  1  2     dicators (check here)  Silvedon  stic  n Sulfide Layers  ed Below Dark Surface  Jark Surface	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  % Indicator	Type	Location          matic Soils <sup>1</sup> Muck (LRR K, L, MLRA 14 Prairie Redox (LRR K Icky Peat of Peat (L Irface (LRR K, L, M) Ue Below Surface (LRR K, L) anganese Masses ont Floodplain Soils Spodic (MLRA 144A, 14 arent Material Shallow Dark Surfa	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  (9B) (X, L, R) (RR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) (15, 149B)
Profile Descrip  Top Depth  0 8 Under the content of the	Bottom Depth  8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick D S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  Horizon  1 2 dicators (check here)  Sipedon stic in Sulfide it Layers ed Below Dark Surface luck Mineral sleyed Matrix ledox	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  (PB) (K, L, R) RR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) (S 5, 149B)
Profile Descrip  Top Depth  0 8 Under the content of the	Bottom Depth  8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick D S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  Horizon  1  2     dicators (check here)  Silvedon  stic  n Sulfide Layers  ed Below Dark Surface  Jark Surface	Color (Moi 10YR 2.5Y ere if indicators are	ods adrix st)  3/1 5/2  not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location          matic Soils <sup>1</sup> Muck (LRR K, L, MLRA 14 Prairie Redox (LRR K Icky Peat of Peat (L Irface (LRR K, L, M) Ue Below Surface (LRR K, L) anganese Masses ont Floodplain Soils Spodic (MLRA 144A, 14 arent Material Shallow Dark Surfa	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  (PB) (K, L, R) RR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) (S 5, 149B)
Profile Descrip  Top Depth  0 8 Under the content of the	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Sui	Horizon  Horizon  1 2 dicators (check here)  bipedon stic n Sulfide Layers ed Below Dark Surface Park Surface luck Mineral sleyed Matrix ledox Matrix rface (LRR R, MLRA 149B)	Color (Moi 10YR 2.5Y ere if indicators are	ods adicators.) (Type atrix st)  3/1 5/2 not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Profile Descrip  Top Depth  0 8	Bottom Depth 8 11 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Sui	Horizon  Horizon  1  2     dicators (check here)  Silvedon  stic  n Sulfide Layers  ed Below Dark Surface  Jark Surface	Color (Moi 10YR 2.5Y ere if indicators are	ods adicators.) (Type atrix st)  3/1 5/2 not pres	% 100 100	n, D=Depletion,	Color (Moist)	Sand Grains; Location: P  Mottles  %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam  (PB) (K, L, R) RR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (MLRA 149B) (S 5, 149B)

### WETLAND DETERMINATION DATA FORM

TETRA TECH

**Northeast and Northcentral Region** 

Project/Site:	Western Maine Renewable Energy Project				Wetland ID: W98EI Sample Point Upland
<b>VEGETATION</b>	(Species identified in all uppercase are non-native species	.)			
Tree Stratum (Plo	t size: 10 meter radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	15	Υ	FAC	
2.	Thuja occidentalis	5	N	FACW	Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.	Betula papyrifera	15	Υ	FACU	`` · ·
4.	Tsuga canadensis	15	Υ	FACU	Total Number of Dominant Species Across All Strata: 5 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)
7.					(742)
8.			<b></b>		Prevalence Index Worksheet
	<del></del>	<b></b>			
9.	<del></del>				Total % Cover of: Multiply by:
10.					OBL spp. 10
	Total Cover =	50			FACW spp 30
					FAC spp 100 x 3 = 300
Sapling/Shrub Stra	tum (Plot size: 5 meter radius)				FACU spp 50
1.	Acer rubrum	5	N	FAC	UPL spp 0
2.	llex verticillata	5	Ν	FACW	
3.	Tsuga canadensis	5	N	FACU	Total 190 (A) 570 (B)
4.					<del></del>
5.					Prevalence Index = B/A = 3.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					,
10.	Total Cavar -	15	<b></b>		
	Total Cover =	15			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
	size: 2 meter radius)			<b>540</b>	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Cornus canadensis	80	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
2.	Scirpus cyperinus	10	N	OBL	present, unless disturbed or problematic.
3.	Symphyotrichum ericoides	15	N	FACU	
4.	Gaultheria hispidula	20	Υ	FACW	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.	_ <del></del>				<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.			<b></b>	<b></b>	
	<del></del>	<b></b>	<b></b>		<b>Woody Vines</b> - All woody vines greater than 3.28 ft. in height.
15.	Total Covers	405			VVOOLY VIIIes = 7 iii Woody Viiioo groater triaii 0.20 it. iii neight.
	Total Cover =	125			
Woody Vine Stratu	m (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					
5.					
	Total Cover =	0			
Remarks:			-		
Additional Ren	narke:				
Auditional Ken	iai n5.				



Project/Site:	Western Mair	ne Renewable End	eray Project				Project #:	194-7130		Date:	09/09/20	
Applicant:		ne Renewables, L	••				1 10,000 11.	1017100		County:	Somerset	
Investigator #1:		io renowasies, E		Invest	igator #2:					State:	ME	
Soil Unit:		s complex 0 to 9 pe	ercent slopes, very stony	IIIVOSt	igatoi #Z.		WI/WWI Classification:	DEM/DSS		Wetland ID:	W98EI	
Landform:	Terrace	s complex, o to o pe	ercent slopes, very storry	Loc	cal Relief:		771/77771 Olassilloation.	1 LIVI/1 OO		Sample Point:	Wetland	
Slope (%):	See topo map	l ati	tude: 45.156135°		ongitude:		06°	•				
· · · · · · · · · · · · · · · · · · ·			e typical for this time o					☐ Yes ☑ No				
•			⊒significantly disturbed		т по, ехріант	lii ieiliaiks)	Are normal circumsta					
Are Vegetation		, ,,	⊒signiiicantiy disturbed ⊒naturally problematic′					ances present ☑ No	:			
SUMMARY OF I		or Hydrology L		•			□ 103	E NO				
		ont?		□ Voo				Lludria Caila [	Oronont?		□ Voc □ No	
Hydrophytic Veg				☑ Yes				Hydric Soils F		\/:th::- \ \\/.atla:-a	✓ Yes □ No	
Wetland Hydrold	<b>4</b>		in LICAE Dadar Statio	☑ Yes	□ No			lis This Samp	ling Point v	Vithin A Wetland	l? ✓ Yes □ No	
Remarks:	Statewide C	irougni, occurs	in USAF Radar Station	i ileiu								
HYDROLOGY												
Wetland Hydro	ology Indica	itors (Check he	ere if indicators are not	present	):	V						
<u>Primary:</u>									Secondary:			
	A1 - Surface				B9 - Wate					B6 - Surface Soil (		
	A2 - High Wa				B13 - Aqu					B10 - Drainage Pa		
	A3 - Saturation B1 - Water M				B15 - Mar C1 - Hydro	•			_	B16 - Moss Trim L C2 - Dry-Season V		
l H	B2 - Sedimen						spheres on Living Roots			C8 - Crayfish Burr		
l	B3 - Drift Dep	•		H			educed Iron			•	sible on Aerial Imagery	
	B4 - Algal Ma						duction in Tilled Soils			D1 - Stunted or St		
	B5 - Iron Dep	osits		_	C7 - Thin					D2 - Geomorphic I		
		on Visible on Aeria	<u> </u>		Other (Ex	plain in Re	emarks)			D3 - Shallow Aquit		
	B8 - Sparsely	Vegetated Conca	ave Surface							D4 - Microtopogra	-	
									Ц	D5 - FAC-Neutral	Test	
Field Observat	ions:											
Surface Water F	Present?	☐ Yes ☑ No	o Depth:		(in.)			<b></b>			V = N	
Water Table Pre	esent?	□ Yes ☑ No	•		(in.)			Wetland Hyd	irology Pre	esent?	Yes □ No	
Saturation Prese		☑ Yes □ N	<b>'</b>	10	(in.)							
			<u> </u>			`			N1/A			
	· · · · · · · · · · · · · · · · · · ·		toring well, aerial photos	, previous	s inspectio	ns), if ava	allable:		N/A			
Remarks:	Statewide of	drought										
SOILS												
Map Unit Name:	•	Monarda-Telos c	omplex, 0 to 8 percent slop	es, very s	tony	,	Series Drainage Class:	Poorly draine	d			
Taxonomy (Sub	•		active, acid, frigid, sha									
Profile Descrip	tion (Describe to the	he depth needed to documer	nt the indicator or confirm the absence of ir	dicators.) (Type	e: C=Concentratio	n, D=Depletion,	RM=Reduced Matrix, CS=Covered/Coated	Sand Grains; Location: P	L=Pore Lining, M=Ma	atrix)	1	
Тор	Bottom		Ma	atrix				Mottles			Texture	
Depth	Depth	Horizon	Color (Moi	st)	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)	
0	14	1		black	organic						muck	
14	19	2	10YR	5/1	100						fine sandy loam	
					<u> </u>							
NRCS Hydric S			k here if indicators are		<u> </u>		1	Indicator		matic Soils <sup>1</sup>	1	
	A1- Histosol	uicators (chec	k liele ii iliulcators are	-	,		w Surface (LRR R, MLRA 149B)			Muck (LRR K, L, MLRA 14	OD)	
	A2 - Histic Ep	ninedon			•		CC (LRR R, MLRA 149B)			Prairie Redox (LRR k	•	
	A3 - Black His	•		H			Mineral (LRR K, L)			icky Peat of Peat (L		
	A4 - Hydroge				F2 - Loam	-				Irface (LRR K, L, M)	, _,,	
	A5 - Stratified				F3 - Deple				S8 - Polyvalı	ue Below Surface (ւ	RR K, L)	
	•	ed Below Dark Sur	face		F6 - Redo	x Dark Su	rface		=	rk Surface (LRR K, L)		
	A12 - Thick D				F7 - Deple					anganese Masses		
	S1 - Sandy M				F8 - Redo	x Depress	sions			ont Floodplain Soils		
	S4 - Sandy G	•								Spodic (MLRA 144A, 14	5, 149B)	
	S5 - Sandy R									arent Material		
	S6 - Stripped	Matrix face (LRR R, MLRA 14)	OD)						•	Shallow Dark Surfa iin in Remarks)	IC <del>C</del>	
	or - Daik Sul	TAGG (LRK K, MLKA 14)	וחפ							on and wetland hydrology mu	st be present, unless	
<b>B</b>								disturbed or p				
Restrictive Layer (If Observed)	Туре:	NR		Depth:				Hydric Soil I	Present?	✓	Yes □ No	
Remarks:												
i veiliai No.												

### WETLAND DETERMINATION DATA FORM

TETRA TECH

Northeast and Northcentral Region

Project/Site:	Western Maine Renewable Energ	y Project				Wetland ID: W98EI Sample Point Wetland
<b>VEGETATION</b>	(Species identified in all uppercase are i	non-native species	.)			
	t size: 10 meter radius)	'	,			
,	<u>Species Name</u>		% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1	Salix bebbiana	<del>-</del>	10	<u> </u>	FACW	
2.	Thuja occidentalis		10	N	FACW	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
			10	IN	FACVV	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.	<b></b>					
4.						Total Number of Dominant Species Across All Strata:4(B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.						(==)
						Duarralan as Inday Maylahad
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp 80 x 1 = 80
		Total Cover =	20			FACW spp. 65 x 2 = 130
						FAC spp. 5 x 3 = 15
Sanling/Shrub Stra	atum (Plot cizo: 5 motor radius)					
Sapiling/Stitub Stra	atum (Plot size: 5 meter radius)		10	V		
1.	Thuja occidentalis		10	Y	FACW	UPL spp 0 x 5 = 0
2.	Salix bebbiana		5	N	FACW	
3.	llex verticillata		5	Ν	FACW	Total 150 (A) 225 (B)
4.						
5.						Prevalence Index = B/A = 1.500
						1 Tevalcrice index = B/A = 1.500
6.				<b></b>		
7.						
8.						Hydrophytic Vegetation Indicators:
9.	<b></b>					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.						☑ Yes ☐ No Dominance Test is > 50%
101		Total Cover =	20			
		Total Cover –	20			
						☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Equisetum arvense		5	Ν	FAC	
2.	Scirpus cyperinus		80	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Symphyotrichum novae-angliae		5	N	FACW	present, unless disturbed or problematic.
4.	Spiraea alba		20	Y	FACW	Definitions of Vegetation Strata:
	·					Definitions of Vegetation offata.
5.						_
6						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
	<b></b>					
11.						
12.						<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.						woody plants less than 3.20 it. tall.
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
10.		T-4-1 O				Troody Times 7 0
		Total Cover =	110			
Woody Vine Stratu	ım (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydronbytic Vegetation Brecont Veg - Ne
	<b></b>					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.						
5.						
		Total Cover =	0	<del></del>		
Remarks:						
Additional Rer	marks:					



Are Vegetation	Western Main Emmy Irvin Monarda-Burnl Terrace See topo map rologic condi	ne Renewable Energy Properties Renewables, LLC  ham complex, 0 to 3 percentage  Latitude:  tions on the site typic or Hydrology □signior Hydrology □natu	ent slopes, very stony 45.15602402400 cal for this time o	Loc L of year? (I I?	igator #2: cal Relief: ongitude:	N Linear -69.8523	WI/WWI Classification	Datum: □ Yes ☑	NAD 83 No ?	Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W99EI Upland
SUMMARY OF	FINDINGS										
Hydrophytic Ve	getation Pres	ent?		☐ Yes				Hydric Soils I	Present?		☐ Yes ☑ No
Wetland Hydrol				☐ Yes	☑ No			Is This Samp	ling Point V	Within A Wetland	d? □ Yes ☑ No
Remarks:	Statewide d	lrought									
HYDROLOGY											
Wetland Hydro	ology Indica	tors (Check here if i	ndicators are not	present	):	$\checkmark$					
Primary:	A1 - Surface NA2 - High War A3 - Saturatio B1 - Water Ma B2 - Sedimen B3 - Drift Dep B4 - Algal Ma B5 - Iron Depo B7 - Inundatio B8 - Sparsely	ter Table on arks t Deposits osits t or Crust	•	_	C4 - Prese	atic Fauna I Deposits ogen Sulfi zed Rhizo ence of Ro ent Iron Re Muck Sur	a side Odor ospheres on Living Roots educed Iron eduction in Tilled Soils face			B6 - Surface Soil 6 B10 - Drainage Pa B16 - Moss Trim I C2 - Dry-Season V C8 - Crayfish Burn	atterns Lines Water Table rows sible on Aerial Imagery cressed Plants Position tard uphic Relief
Field Observat Surface Water F Water Table Pre Saturation Preserved	Present? esent? ent?	☐ Yes ☑ No ☐ Yes ☑ No ☐ Yes ☑ No ☐ am gauge, monitoring	Depth: Depth: Depth:		(in.) (in.) (in.)	ns) if av	ailable:	Wetland Hyd	drology Pro	esent? □	Yes ☑ No
	•		well, aeriai priolos	, previous	s irispection	115), 11 av	aliable.		IN/A		
Remarks:	Statewide d	irougni									
SOILS											
Map Unit Name	•	Monarda-Burnham com	plex. 0 to 3 percent	slopes, ve	erv stonv		Series Drainage Class	s: Well Drained			
Taxonomy (Sub		Loamy, isotic, frigid	•	-	, ,		<b>.</b>				
	<del>•</del>				e: C=Concentration	n, D=Depletion,	, RM=Reduced Matrix, CS=Covered/Coate	ed Sand Grains; Location: P	L=Pore Lining, M=M	latrix)	
Тор	Bottom			atrix				Mottles			Texture
Depth	Depth	Horizon	Color (Moi	st)	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	8		10YR	3/1	100						fine sandy loam
8	12		10YR	3/3	100						fine sandy loam
								<del></del>			
								<del></del>			
NDOO Usadaia 4		 dicators (check here				<u> </u> ✓					
	A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S4 - Sandy G S5 - Sandy Re S6 - Stripped	ipedon stic n Sulfide Layers d Below Dark Surface ark Surface uck Mineral leyed Matrix			S8 - Polyv S9 - Thin I	ralue Belo Dark Surfa ly Mucky I ly Gleyed eted Matri x Dark Su eted Dark	ow Surface (LRR R, MLRA 149B) face (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface	Indicators of	A10 - 2 cm I A16 - Coast S3 - 5cm Mu S7 - Dark Su S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red P TF12 - Very Other (Expla	Muck (LRR K, L, MLRA 14 Prairie Redox (LRR L ucky Peat of Peat (L urface (LRR K, L, M) ue Below Surface ( ark Surface (LRR K, L) langanese Masses nont Floodplain Soils Spodic (MLRA 144A, 14 Parent Material Shallow Dark Surfacin in Remarks)	K, L, R)  LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  S (MLRA 149B)  45, 149B)
Restrictive Layer (If Observed) Remarks:	Туре:	LEDGE		Depth:	12			Hydric Soil I			Yes ☑ No

### WETLAND DETERMINATION DATA FORM

**Northeast and Northcentral Region** 

TETRA TECH

Project/Site: Western Maine Renewable Energy Project **W99EI** Sample Point Upland Wetland ID: **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) Species Name **Dominance Test Worksheet** Ind.Status % Cover Dominant Picea rubens **FACU** 1. 5 Ν Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) 2. Picea mariana 5 Ν **FACW** 3. Acer rubrum 5 Ν **FAC** Total Number of Dominant Species Across All Strata: 3 (B) 4. Tsuga canadensis **FACU** 5. 6. Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: 10. OBL spp. x 1 =0 Total Cover = 16 x 2 =FACW spp. 20 x 3 =FAC spp. 15 x 4 =Sapling/Shrub Stratum (Plot size: 5 meter radius) FACU spp. 157 628 Betula papyrifera 25 **FACU** UPL spp. x = 50 1. 2. Salix alba 5 Ν **FACW** 3. Ν **FACU** Tsuga canadensis Total 172 663 (B) 4. 5. Prevalence Index = B/A = 3.855 6. 7. --8. **Hydrophytic Vegetation Indicators:** --9. ☐ Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. ☐ Yes Dominance Test is > 50% ✓ No Total Cover = 31 ☐ Yes ✓ No Prevalence Index is ≤ 3.0 \* Morphological Adaptations (Explain) \* ☐ Yes ✓ No Herb Stratum (Plot size: 2 meter radius) ✓ No Problem Hydrophytic Vegetation (Explain) \* Yes Anaphalis margaritacea 20 **FACU** 1. Ν \* Indicators of hydric soil and wetland hydrology must be 5 2. Ν **FACU** Vicia americana present, unless disturbed or problematic. **FACU** 3. 20 Ν Solidago canadensis **Definitions of Vegetation Strata:** Galium aparine 50 Υ 4. **FACU** Trifolium pratense 5. 30 **FACU** 6 **Tree -** Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. ----8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 125 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** □ Yes ☑ No 4. 5. Total Cover = 0 Remarks:

Additional Remarks:			



Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1					igator #2:		///////// OI :C: //	DE14/D00		State:	ME
Soil Unit:		ncook association, 3 to	15 percent s	•	al Daliafi		/I/WWI Classification:	: PEM/PSS		Wetland ID:	W99EI
Landform:	Terrace	Latituda	4E 140600		cal Relief:		<b>500</b>	Datum:	NVD 63	Sample Point:	Wetland
Slope (%):	See topo map	ditions on the site ty	45.140609		ongitude:				NAD 83 No	1	
		or Hydrology □ sig				Tio, explain	Are normal circumsta			1	
•		or Hydrology □ sig or Hydrology □ nat	-				□ Yes	☑ No			
SUMMARY OF		or riyarology — had	arany prop	· · · · · · · · · · · · · · · · · · ·							
Hydrophytic Ve		sent?		✓ Yes	s □ No	)		Hydric Soils	Present?		☑ Yes □ No
Wetland Hydro	_			Yes		)				Within A Wetlar	nd? 🗹 Yes 🗆 No
Remarks:	Statewide o	drought; occurs in U	SAF Rada	r Station	field						
HYDROLOGY											
	rology Indic	ators (Check here i	f indicators	are not	present						
<u>Primary</u>	<u>y:</u>	,				<b>,</b>			Secondary:		
				_	B9 - Wate				_	B6 - Surface Soil	
	l   A2 - High Wa l   A3 - Saturatio				B13 - Aqı B15 - Ma					B10 - Drainage P B16 - Moss Trim	
	B1 - Water M				C1 - Hydi	rogen Sulfi	ide Odor			C2 - Dry-Season	Water Table
	B2 - Sedimer	•					ospheres on Living Roots			C8 - Crayfish Bur	
	l B3 - Drift Der l B4 - Algal Ma			_			educed Iron eduction in Tilled Soils			D1 - Stunted or S	isible on Aerial Imagery Stressed Plants
	B5 - Iron Dep	oosits			C7 - Thin					D2 - Geomorphic	Position
		on Visible on Aerial Ima			Other (Ex	cplain in Re	emarks)			D3 - Shallow Aqu	
	bo - Sparsely	y Vegetated Concave S	ourrace							D4 - Microtopogra D5 - FAC-Neutra	
Field Observa	ntions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)				_		
Water Table P		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pi	resent?	Yes □ No
Saturation Pre	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Recor	ded Data (str	eam gauge, monitori	ng well. aeri	ial photos	s. previou	s inspecti	ons), if available:		N/A		
Remarks:	Statewide o		<u> </u>	<u> </u>	<u> </u>	<u>'</u>					
		· ·									
SOILS											
Map Unit Nam	e:	Telos-Chesuncook associa	tion, 3 to 15 pei	rcent slopes	3	S	Series Drainage Class:	: somewhat p	oorly draine	ed	
Taxonomy (Su	<u> </u>	Loamy, isotic, frigid		-	•						
		the depth needed to document the inc	licator or confirm the		icators.) (Type: 0	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C		ins; Location: PL=Po	ore Lining, M=Matrix)	T + .
Тор	Bottom		0 1 /	Matrix	0/		0 1 (14 : 1)	Mottles	T <b>+</b>	T	Texture
Depth	Depth	Horizon	Color (I		%	40\/D	Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	10		2.5Y	4/1	100	10YR	4/6	5	С	m	fine sandy loam
		<b></b>	<b></b>								
NRCS Hydric	Soil Field Ir	ndicators (check he	re if indica	tors are	not prese	ent ②:	•	Indicator	s for Proble	ematic Soils 1	
_	A1- Histosol	,			-	•	w Surface (LRR R, MLRA 149B)			Muck (LRR K, L, MLRA	149B)
	A2 - Histic Ep	•					ACC (LRR R, MLRA 149B)			t Prairie Redox (LRF	· · · /
	] A3 - Black Hi ] A4 - Hydroge					ny Mucky ny Gleyed	Mineral (LRR K, L) Matrix	H		ucky Peat of Peat urface (LRR K, L, M)	(LRR K, L, R)
	A5 - Stratified			_ ☑		eted Matri				lue Below Surface	(LRR K, L)
<u> </u>		ed Below Dark Surface			F6 - Red	ox Dark Su			S9 - Thin Da	ark Surface (LRR к,	L)
	A12 - Thick D				•	eted Dark ox Depres				Manganese Masse	
<u> </u>	Q1 Qandu N	TUCK WILLELDI			i o - Redi	ov pebies:	31013			nont Floodplain So Spodic (м∟ка 144а,	
	]S1 - Sandy M ]S4 - Sandy G									1 > /=. 0 . 1	143, 1430)
	] S4 - Sandy G ] S5 - Sandy R	Bleyed Matrix Redox								Parent Material	
	] S4 - Sandy G ] S5 - Sandy R ] S6 - Stripped	Gleyed Matrix Redox I Matrix							TF12 - Very	Shallow Dark Sur	
	] S4 - Sandy G ] S5 - Sandy R ] S6 - Stripped	Bleyed Matrix Redox							TF12 - Very Other (Expl	v Shallow Dark Sur ain in Remarks)	face
	] S4 - Sandy G ] S5 - Sandy R ] S6 - Stripped	Gleyed Matrix Redox I Matrix						<sup>1</sup> Indicators	TF12 - Very Other (Expl	Shallow Dark Sur	face
Restrictive Layer (If Observed)	] S4 - Sandy G ] S5 - Sandy R ] S6 - Stripped	Gleyed Matrix Redox I Matrix rface (LRR R, MLRA 149B)		Depth:	10			<sup>1</sup> Indicators	TF12 - Very Other (Explant of hydrophytic vegetor problematic.	v Shallow Dark Sur ain in Remarks)	face
Restrictive Layer	S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Su	Gleyed Matrix Redox I Matrix rface (LRR R, MLRA 149B)		Depth:	10			1 Indicators of disturbed of	TF12 - Very Other (Explant of hydrophytic vegetor problematic.	Shallow Dark Sur ain in Remarks) tation and wetland hydrology	face  must be present, unless

# 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	e species.	)						
	ot size: 10 meter radius)		/						
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	Larix laricina	10	Ν	FACW					
2.	Betula alleghaniensis	10	Ν	FAC	Number of Dominant Species that are OBL, FACW, or FAC:5(A)				
3.	Picea mariana	15	Υ	FACW					
4.					Total Number of Dominant Species Across All Strata: 5 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 $\mathbf{x} 1 = 0$				
	Total Cover =	35			FACW spp. 135 x 2 = 270				
					FAC spp. 40 x 3 = 120				
Sapling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp. $10$ $x 4 = 40$				
1.	Salix bebbiana	20	Υ	FACW	UPL spp. $0   x   5 = 0$				
2.	Spiraea alba	25	Υ	FACW					
3.	Populus tremuloides	10	N	FACU	Total 185 (A) 430 (B)				
4.									
5.					Prevalence Index = B/A = 2.324				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation				
10.					☑ Yes ☐ No Dominance Test is > 50%				
	Total Cover =	55							
					☐ Yes ☑ No Morphological Adaptations (Explain) *				
Herb Stratum (Plo	ot size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *				
1.	Symphyotrichum novae-angliae	15	N	FACW					
2.	Phalaris arundinacea	50	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Osmunda claytoniana	30	Υ	FAC	present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.				
10.					tall.				
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and				
13.					woody plants less than 3.28 ft. tall.				
14.									
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.				
	Total Cover =	95							
Woody Vine Strat	um (Plot size: 10 meter radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present 🗵 Yes 🗆 No				
4.									
5.									
	Total Cover =	0							
Remarks:									
Additional Re	marks:								



Project/Site: Applicant:	Moscow Ren	ewable Energy Project					Project #:	194-7130		Date:	09/09/20
i Audillani.	Patriot Renev						r rojcot π.	134-7 100		County:	Somerset
Investigator #1				Invest	igator #2:	: Emmy Ir	/in			State:	ME
Soil Unit:		complex, 0 to 8 percent slo	pes. verv stonv		. <u></u>		/I/WWI Classification:	: Upland		Wetland ID:	W08NJ
Landform:	Terrace	, , , , , , , , , , , , , , , , , , , ,	, , , ,		al Relief:			•		Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.136905	L	ongitude:	: -69.8302	848	Datum:	: NAD 83		•
· · · · · ·	drologic cond	ditions on the site ty						□ Yes □	No		
Are Vegetation	□, Soil □,	or Hydrology □ sig	nificantly d	isturbed <sup>6</sup>	?		Are normal circumst	ances presen	ıt?	]	
Are Vegetation	□, Soil □,	or Hydrology □ nat	turally prob	lematic?	•		☐ Yes	☑ No			
<b>SUMMARY OF</b>	FINDINGS										
Hydrophytic Ve	egetation Pre	sent?		☐ Yes	s ☑ No	)		Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydro	ology Present	?		□ Yes	s ☑ No	)		Is This Sam	pling Point	Within A Wetla	nd? □ Yes ☑ No
Remarks:	Statewide o	drought									
HADBOLOCA											
HYDROLOGY Wetland Hydr	rology Indic	ators (Chack hara i	findicators	oro not	procent	<u> </u>					
Primary	• • •	ators (Check here i	Tindicators	are not	present	Į			Secondary:		
<u>- 11111al y</u>	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	l Cracks
	A2 - High Wa				B13 - Aqı					B10 - Drainage F	
	A3 - Saturation				B15 - Ma	•			_	B16 - Moss Trim	
l H	B1 - Water M B2 - Sedimer				C1 - Hydi		ospheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bu	
	B3 - Drift Dep						educed Iron			•	/isible on Aerial Imagery
	B4 - Algal Ma	at or Crust					eduction in Tilled Soils			D1 - Stunted or S	Stressed Plants
	B5 - Iron Dep			_	C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima / Vegetated Concave S			Other (Ex	kplain in R	emarks)			D3 - Shallow Aqu D4 - Microtopogr	
	Do - Oparson	vegetated contave e	Janaoc							D5 - FAC-Neutra	•
Field Observa	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)						
Water Table Pi		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology P	resent?	] Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
			<u> </u>			a inanasti	ana) if available.		N/A		
	•	eam gauge, monitori	ilg well, ael	iai priotos	s, previous	s mspect	ons), ii avaliable.		IN/A		
Remarks:	Statewide of	arougni									
SOILS											
Map Unit Name	0:	Maranta Talana and a Ota O					eries Drainage Class:	· Somowhat n	oorly drain	od	
Taxonomy (Sul							ches Dialiade Glass.	. Odiliewilal b	Joons Grains		
	( )( )( ( )( )( ) ) ·	Monarda-Telos complex, 0 to 8			te .		erree Brannage Glace.		<b>,</b>	<u> </u>	
	<u> </u>	Loamy, mixed, active, acid, fri	gid, shallow Aerid	: Endoaquep				•	•		
Profile Descri	ption (Describe to	Loamy, mixed, active, acid, fri	gid, shallow Aerid	Endoaquep			D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	•		Texture
Profile Descri	ption (Describe to	Loamy, mixed, active, acid, frighthe depth needed to document the inc	gid, shallow Aerid	Endoaquep eabsence of ind Matrix	icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Po	ore Lining, M=Matrix)	Texture (e.g. clay, sand, loam
Profile Descrip Top Depth	Ption (Describe to Bottom Depth	Loamy, mixed, active, acid, fri	gid, shallow Aeridicator or confirm the	Endoaquep absence of ind Matrix Moist)	icators.) (Type: C			Covered/Coated Sand Gra	•		(e.g. clay, sand, loam)
Profile Descrip Top Depth 0	Bottom Depth 12	Loamy, mixed, active, acid, frighthe depth needed to document the inceptor Horizon	gid, shallow Aeric dicator or confirm the Color (I 10YR	Endoaquep e absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
Profile Descrip Top Depth	Ption (Describe to  Bottom  Depth  12	Loamy, mixed, active, acid, frighthe depth needed to document the inc  Horizon	gid, shallow Aeric dicator or confirm the Color (I 10YR	Endoaquep e absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
Profile Descrip Top Depth 0	Bottom Depth 12	Loamy, mixed, active, acid, frighthe depth needed to document the inceptor Horizon	gid, shallow Aeric dicator or confirm the Color (I 10YR	Endoaquep e absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam)
Profile Descrip Top Depth 0	Ption (Describe to Bottom Depth 12	Loamy, mixed, active, acid, frighthe depth needed to document the inc	color (1000)	e absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descrip Top Depth 0	Ption (Describe to  Bottom  Depth  12	Loamy, mixed, active, acid, frighthe depth needed to document the inc  Horizon	gid, shallow Aeric dicator or confirm the Color (I 10YR	Endoaquep  absence of ind  Matrix  Moist)  4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descriptop Depth 0	Ption (Describe to  Bottom Depth 12	Loamy, mixed, active, acid, frighthe depth needed to document the indepth depth depth needed to document the indepth depth needed to document the indepth depth needed to document the indepth needed to document the inde	gid, shallow Aeric dicator or confirm the Color (I 10YR	Endoaquepe absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descriptop Depth 0	Ption (Describe to Bottom Depth 12	Loamy, mixed, active, acid, frighthe depth needed to document the indepth needed to document	gid, shallow Aeric dicator or confirm the Color (I 10YR	e absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12	Loamy, mixed, active, acid, frighthe depth needed to document the indepth depth depth needed to document the indepth depth	gid, shallow Aeric dicator or confirm the Color (I 10YR	e absence of ind Matrix Moist) 4/3	% 100	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In	Loamy, mixed, active, acid, frighthe depth needed to document the indepth needed to document	gid, shallow Aeric dicator or confirm the Color (I 10YR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese	C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  %         Indicator	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12	Horizon	gid, shallow Aeric dicator or confirm the Color (I 10YR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese	      ent 以:	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi	Horizon  Horizon	gid, shallow Aeric dicator or confirm the Color (I 10YR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan	==Concentration	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Location	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Loamy, mixed, active, acid, frighthe depth needed to document the indepth needed to document	gid, shallow Aeric dicator or confirm the Color (I 10YR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	      value Belo Dark Surf my Mucky ny Gleyed	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM (LRR K, L, R)
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon  Horizon	Color (In 10 PR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM (LRR K, L, R)
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon  Horizon	Color (In 10 PR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	ent ©: value Belo Dark Suri my Mucky my Gleyed leted Matri ox Dark S	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Horizon  Horizon	Color (In 10 PR	e absence of ind Matrix Moist) 4/3 ttors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	ent ©: value Belo Dark Suri my Mucky my Gleyed leted Matri ox Dark S	D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M	Horizon  Horizon	Color (In 10 PR	e absence of ind Matrix Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G S5 - Sandy R	Horizon  Horizon	Color (In 10 PR	e absence of ind Matrix Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E A12 - Thick E A12 - Thick E A12 - Sandy N S1 - Sandy N S2 - Sandy R S5 - Sandy R S6 - Stripped	Loamy, mixed, active, acid, frighthe depth needed to document the incomplete the incomplete the depth needed to document the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the incomplete the depth needed to document the incomplete the inc	Color (In 10 PR	e absence of ind Matrix Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % Indicator	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E A12 - Thick E A12 - Thick E A12 - Sandy N S1 - Sandy N S2 - Sandy R S5 - Sandy R S6 - Stripped	Horizon  Horizon	Color (In 10 PR	e absence of ind Matrix Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E A12 - Thick E A12 - Sandy M S4 - Sandy M S5 - Sandy R S6 - Stripped S7 - Dark Su	Loamy, mixed, active, acid, frighthe depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the incomplete the depth needed to document the incomplete t	Color (In 10 PR	e absence of ind  Matrix  Moist)  4/3      tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl F8 - Redo		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra  Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam)  FINE SANDY LOAM      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) Dils (MLRA 149B) 145, 149B)  rface y must be present, unless
Profile Descri	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E A12 - Thick E A12 - Thick E A12 - Sandy M S4 - Sandy M S5 - Sandy R S6 - Stripped S7 - Dark Su	Loamy, mixed, active, acid, frighthe depth needed to document the incomplete the incomplete the depth needed to document the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the depth needed to document the incomplete the incomplete the incomplete the depth needed to document the incomplete the inc	Color (In 10 PR	e absence of ind Matrix Moist)  4/3     tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		D=Depletion, RM=Reduced Matrix, CS=C  Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles  %	Type	Location  Locati	(e.g. clay, sand, loam) FINE SANDY LOAM

# 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 upperca	se are non-native	species.)							
	ot size: 10 meter radius)									
	<u>Species Name</u>	_	% Cover D	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	Betula populifolia		40	Υ	FAC					
2.	Betula papyrifera		10	Ν	FACU	Number of Dominant Species that are OBL, FACW, or FAC:1(A)				
3.	Picea rubens		10		FACU					
4.						Total Number of Dominant Species Across All Strata: 3 (B)				
5.										
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)				
7.										
8.						Prevalence Index Worksheet				
9.						Total % Cover of: Multiply by:				
10.						OBL spp. 0				
		Total Cover =	60			FACW spp. 0 x 2 = 0				
						FAC spp. 40 x 3 = 120				
Sapling/Shrub Str	atum (Plot size: 5 meter radius)					FACU spp. 75 x 4 = 300				
1.						UPL spp. $0   x   5 = 0$				
2.						· · · · · · · · · · · · · · · · · · ·				
3.						Total 115 (A) 420 (B)				
4.						· · /				
5.						Prevalence Index = B/A = 3.652				
6.										
7.										
8.						Hydrophytic Vegetation Indicators:				
9.						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation				
10.						☐ Yes ☑ No Dominance Test is > 50%				
		Total Cover =	0			☐ Yes ☑ No Prevalence Index is ≤ 3.0 *				
						☐ Yes ☑ No Morphological Adaptations (Explain) *				
Herb Stratum (Plo	ot size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *				
1.	Solidago canadensis		30	Υ	FACU					
2.	Rubus idaeus		15	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Anaphalis margaritacea		5	N	FACU	present, unless disturbed or problematic.				
4.	Lupinus polyphyllus		5	N	FACU	Definitions of Vegetation Strata:				
5.										
6						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.						height (DBH), regardless of height.				
8.										
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.				
10.						tall.				
11.										
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and				
13.						woody plants less than 3.28 ft. tall.				
14.										
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.				
		Total Cover =	55							
Woody Vine Strat	um (Plot size: 10 meter radius)									
1.										
2.										
3.						Hydrophytic Vegetation Present □ Yes ☑ No				
4.										
5.										
		Total Cover =	0							
Remarks:										
Additional Re	marks:									



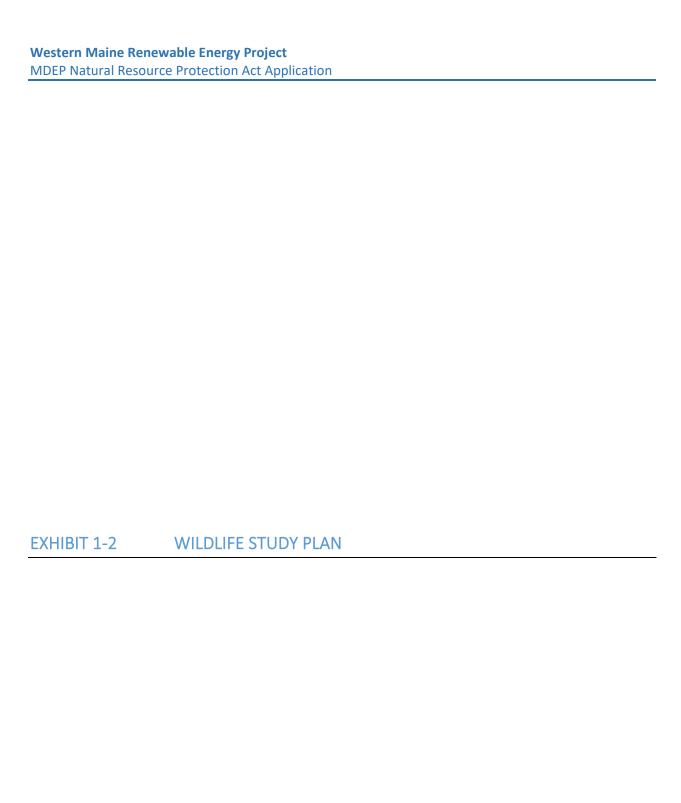
Project/Site:		ewable Energy Project					Project #:	194-7130		Date:	09/09/20
Applicant:	Patriot Renev			1,5,7,5,54	::					County:	Somerset
Investigator #1:				invest	igator #2:	-		· DEM/Dee/O	NA/	State:	ME
Soil Unit: Landform:	Monarda-Telos col	mplex, 0 to 8 percent slopes, ve	ery stony	Loc	cal Relief:		/I/WWI Classification:	. PEIVI/P33/U	V V V	Wetland ID: Sample Point:	W08NJ <b>WET</b>
Slope (%):	See topo map	l atituda:	45.134615		ongitude:		230	Datum:	: NAD 83	Sample Politi.	VVC I
$ \cdot$ $\cdot$ $\cdot$		ditions on the site ty							No		
•		or Hydrology □ sig	•			Tio, explain	Are normal circumst				
•		or Hydrology □ nat	•				□ Yes	☑ No			
SUMMARY OF		or right oragy — had	ion amy prob	· orridation							
Hydrophytic Ve		sent?		✓ Yes	s 🗆 No	)		Hydric Soils	Present?		☑ Yes □ No
Wetland Hydro	•			☑ Yes						Within A Wetlan	
Remarks:	Statewide o										
HYDROLOGY											
Wetland Hydr		ators (Check here i	f indicators	are not	present	Ħ					
Primary		Motor			DO Wate	or Ctainad	Lagyag		Secondary:	B6 - Surface Soil	Crooks
	A1 - Surface A2 - High Wa			_	B9 - Wate   B13 - Aqu					B10 - Drainage P	
V	A3 - Saturatio	on			B15 - Ma	rl Deposits	3			B16 - Moss Trim	Lines
	B1 - Water M				C1 - Hydr	_				C2 - Dry-Season	
I H	B2 - Sedimer B3 - Drift Dep	•					espheres on Living Roots educed Iron			C8 - Crayfish Bur	rows isible on Aerial Imagery
	B4 - Algal Ma			_			eduction in Tilled Soils			D1 - Stunted or S	0 1
	B5 - Iron Dep				C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima Vegetated Concave S	0 ,		Other (Ex	kplain in Re	emarks)			D3 - Shallow Aqu D4 - Microtopogra	
	Bo - Oparsery	vegetated Concave C	dilace							D5 - FAC-Neutral	
Field Observa	tions:										
Surface Water		☑ Yes □ No	Depth:	NR	(in.)						V = N
Water Table Pr	resent?	□ Yes ☑ No	Depth:		(in.)			Wetland Hy	arology Pr	esent?	Yes □ No
Saturation Pres	sent?	☑ Yes □ No	Depth:	. 0	(in.)						
Describe Record	ded Data (stre	eam gauge, monitori	ng well. aer	ial photo	s. previous	s inspecti	l ons). if available:		N/A		
Remarks:	Statewide o		<u> </u>		, I	<u>'</u>	,,				
		<b></b>									
SOILS											
Map Unit Name	e:	Monarda-Telos complex, 0 to 8	percent slopes, v	very stony		S	eries Drainage Class:	: Somewhat p	oorly draine	ed	
Taxonomy (Sub	bgroup):	Loamy, mixed, active, acid, fri	!-l l II A!-	- Cadaaaiiaa	ts						
Drofila Doccri		•									
		•		e absence of ind	licators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0		ains; Location: PL=Po	ore Lining, M=Matrix)	<del>-</del> ,
Тор	Bottom	the depth needed to document the ind	dicator or confirm the	e absence of ind	_	C=Concentration,		Mottles		T	Texture
Top Depth	Bottom Depth	•		e absence of ind	licators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0  Color (Moist)		Type	Location	(e.g. clay, sand, loam)
Тор	Bottom	the depth needed to document the ind	dicator or confirm the	e absence of ind	_	C=Concentration,		Mottles		T	
Top Depth	Bottom Depth	the depth needed to document the inc	dicator or confirm the	Matrix Moist)	%		Color (Moist)	Mottles %	Туре	Location	(e.g. clay, sand, loam)
Top Depth 0	Bottom Depth 12	the depth needed to document the ind Horizon	Color (	Matrix Moist)	%   		Color (Moist)	Mottles	Type   	Location   	(e.g. clay, sand, loam) muck  
Top Depth 0	Bottom Depth 12	Horizon	Color (	Matrix Moist)	%   		Color (Moist)	Mottles	Type    	Location	(e.g. clay, sand, loam) muck
Top	Bottom Depth 12	Horizon	Color (	Matrix Moist)	%    	   	Color (Moist)	Mottles	Type	Location	(e.g. clay, sand, loam) muck
Top Depth 0	Bottom Depth 12	Horizon	Color (	Matrix Moist)	%     	   	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) muck
Top	Bottom Depth 12	Horizon	Color (	absence of ind Matrix Moist)	%	   	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) muck
Top Depth 0	Bottom Depth 12	Horizon	Color (	absence of ind Matrix Moist)	%	   	Color (Moist)	Mottles  %	Type	Location	(e.g. clay, sand, loam) muck
Top	Bottom Depth 12 Soil Field In	Horizon	Color (	Matrix Moist) ators are	% not prese	     ent	Color (Moist)	Mottles  % Indicator	Type	Location matic Soils <sup>1</sup>	(e.g. clay, sand, loam) muck
Top	Bottom Depth 12	Horizon	Color (	Matrix Moist) ators are	% not prese	     ent	Color (Moist)	Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Horizon	Color (	absence of ind  Matrix  Moist)  ators are	% not prese S8 - Poly S9 - Thin F1 - Loan	     ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Mottles  % Indicator	Type	Location  Muck (LRR K, L, MLRA A) Prairie Redox (LRR ucky Peat of Peat	(e.g. clay, sand, loam)  muck
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ex A3 - Black Hi A4 - Hydroge	Horizon	Color (	absence of ind Matrix Moist) tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	ent	Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles  % Indicator	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA <sup>2</sup> Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam)  muck (t49B) R K, L, R) (LRR K, L, R)
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon	Color (	absence of ind  Matrix  Moist)  tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x	Mottles  % Indicator	Type	Location  matic Soils  Muck (LRR K, L, MLRA ALL) Prairie Redox (LRR Ucky Peat of Peat urface (LRR K, L, M) lue Below Surface	(e.g. clay, sand, loam)  muck (LRR K, L, R)
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Horizon	Color (	absence of ind  Matrix  Moist)  ators are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface	Mottles  % Indicator	Type	Location  matic Soils <sup>1</sup> Muck (LRR K, L, MLRA <sup>2</sup> Prairie Redox (LRR ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam)  muck        (LRR K, L, R)  (LRR K, L)
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M	Horizon	Color (	matrix Moist) tors are	%		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location  Muck (LRR K, L, MLRA A) E Prairie Redox (LRR k) Lucky Peat of Peat aurface (LRR K, L, M) Lue Below Surface ark Surface (LRR K, L) Manganese Masses anont Floodplain Soi	(e.g. clay, sand, loam)  muck        (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ex A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick Ex S1 - Sandy M S4 - Sandy G	Horizon	Color (	matrix Moist) tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location  matic Soils  Muck (LRR K, L, MLRA  Prairie Redox (LRR  ucky Peat of Peat  urface (LRR K, L, M) ue Below Surface  ark Surface (LRR K, L  fanganese Masses  nont Floodplain Soils  Spodic (MLRA 144A, A)	(e.g. clay, sand, loam)  muck        (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G S5 - Sandy R	Horizon	Color (	matrix Moist) tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location  matic Soils  Muck (LRR K, L, MLRA AL) Prairie Redox (LRR K, L, M) Lucky Peat of Peat urface (LRR K, L, M) Lue Below Surface ark Surface (LRR K, L, M) Lue Below Surface (LRR K, L) Manganese Masses and Floodplain Soils Spodic (MLRA 144A, Al) Parent Material	(e.g. clay, sand, loam)  muck         (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (S (MLRA 149B)  145, 149B)
Top Depth  0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon	Color (	matrix Moist) tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location  matic Soils  Muck (LRR K, L, MLRA  Prairie Redox (LRR  ucky Peat of Peat  urface (LRR K, L, M) ue Below Surface  ark Surface (LRR K, L  fanganese Masses  nont Floodplain Soils  Spodic (MLRA 144A, A)	(e.g. clay, sand, loam)  muck         (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (LRR K, L, R)  (S (MLRA 149B)  145, 149B)
Top Depth  0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Sandy R S6 - Stripped	Horizon	Color (	matrix Moist) tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location  matic Soils  Muck (LRR K, L, MLRA  Prairie Redox (LRR K, L, M) Lucky Peat of Peat  urface (LRR K, L, M) Lucky Peat of Peat  urfac	(e.g. clay, sand, loam)  muck
Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Su	Horizon	Color (	absence of ind  Matrix  Moist)  ators are	%		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck      149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 145, 149B) face  must be present, unless
Top Depth 0	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Su	Horizon	Color (	matrix Moist) tors are	% not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl		Color (Moist)  w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix x urface Surface Surface	Mottles  % Indicator	Type	Location	(e.g. clay, sand, loam)  muck

# TETRA TECH

# WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Moscow Renewable Energy Project Wetland ID: W08NJ Sample Point WET

<b>VEGETATION</b>	(Species identified in all uppercase are non-nativ	e species	.)		
Tree Stratum (PI	ot size: 10 meter radius)				
	<u>Species Name</u>	-	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Acer rubrum	5	N	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 180 x 1 = 180
	Total Cover =	5			FACW spp 30 x 2 = 60
					FAC spp 5
Sapling/Shrub Str	atum (Plot size: 5 meter radius)				FACU spp 10 x 4 = 40
1.	Populus tremuloides	10	N	FACU	UPL spp 0
2.	Alnus incana	5	N	FACW	
3.					Total <u>225</u> (A) <u>295</u> (B)
4.					
5.					Prevalence Index = B/A = 1.311
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☑ Yes □ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cover =	15			
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	ot size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Carex stricta	100	Υ	OBL	
2.	Scirpus cyperinus	50	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Spiraea alba	10	N	FACW	present, unless disturbed or problematic.
4.	Onoclea sensibilis	10	N	FACW	Definitions of Vegetation Strata:
5.	Typha angustifolia	30	Y	OBL	
6	Symphyotrichum novae-angliae	5	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Juncus sp.			#N/A	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.	_ <del></del>		<b></b>		<b>Woody Vines -</b> All woody vines greater than 3.28 ft. in height.
15.	Total Cover -	205			vvoody vines - / m needy three greater man electric man league
	Total Cover =	205			
Manda N := - 01 1	(Diet eizer 40 mester - dies)				
vvoody vine Strat	um (Plot size: 10 meter radius)				
1.	<b></b>		<b></b>		
2.	<b></b>				Undraphytic Variation Brazant G V G N
3.					Hydrophytic Vegetation Present ☑ Yes ☐ No
4.					
5.					
Damaadaa	Total Cover =	0			
Remarks:					
Additional Re	marks:				
Ī					



### Patriot Renewables, LLC Moscow Renewable Energy Project Study Plan

### INTRODUCTION

Patriot Renewables, LLC (Patriot), together with Cianbro Corporation (Cianbro), are working to develop the Moscow Renewable Energy Project (Project), a commercial wind energy project at the decommissioned United States (U.S.) Air Force Radar Installation in the towns of Moscow and Caratunk, Somerset County, Maine (Project Area; Appendix A). As currently envisioned, the Project would consist of approximately 20 GE 3-megawatt (MW) wind turbines on 107-meter towers generating a total of 60.5 MWs, with a potential for an additional 15–20 MWs of solar.

This Study Plan provides relevant background information, includes maps of the Project Area, describes survey methodologies, and clarifies seasonal restrictions and timing of surveys. The Study Plan also establishes strategies and timelines for mobilization, field work, and reporting. Studies included in the Study Plan and specific methodologies may be modified depending on feedback from state and federal wildlife agencies. If necessary, two Tetra Tech staff members may attend at least one on-site agency meeting or site visit and up to two agency conference calls related to developing this Study Plan. Due to seasonal nature of the work some of the studies in the work plan have already begun.

In addition to the feedback received from MDIFW regarding studies to date, Tetra Tech has consulted with the USFWS Maine field office and regional eagle coordinator regarding Canada lynx, eagle use surveys, and northern long-eared bats surveys and summaries of those surveys are also included below. As such, this plan is comprehensive to include feedback from both MDIFW and USFWS.

### DESKTOP HIBERNACULA SEARCH AND ACOUSTIC BAT MONITORING

Tetra Tech will perform a desktop review of aerial photography to determine if the Project Area contains ≥½-acre talus fields or rocky outcrops, cliffs, or similar habitat. Tetra Tech will also contact the Maine Department of Inland Fisheries and Wildlife (MDIFW) small mammal biologist to discuss if any potentially valuable features exist in the Project area. If any sites are identified, Tetra Tech will conduct bat acoustic monitoring using full spectrum Wildlife Acoustics bat detectors in accordance with MDIFW survey protocols to determine if any bat hibernacula are present on site and whether they are in use by any Maine listed Threatened, Endangered, and Special Concern bat species. Detectors would be deployed to capture emergence of bats from hibernacula from Mid-November through December 2020. MDIFW guidelines indicate that, at a minimum, one detector should be placed at each feature. Data will be analyzed in accordance with MDIFW protocols. Tetra Tech will prepare a brief technical memorandum of the survey results.

### **CAMERA TRAP SURVEY**

A camera trap survey was recommended at the site to supplement historic tracking data that was collected previously at the project site. Tetra Tech will conduct a camera trap survey plan following an

approved work plan by USFWS Maine Field Office. Seven camera traps (motion-activated camera stations with visual and olfactory lures) will be deployed for a minimum three-month period. Surveys will be conducted using protocols developed by Nielsen and McCollough¹ and Alexej Siren.² Camera stations will include long range (a hanging compact disc) and short range (a turkey feather attached to a swivel) visual attractants. A variety of olfactory attractants have been used for Canada Lynx, including beaver castor oil with cat nip and general predator call lure. A snow stake marked at 10 cm increments will be used at the camera station to provide size reference for animals detected and to track snow depth throughout the winter. Cameras will be oriented north on a tree 1–2 m above the ground or snow surface and 3–5 m from the snow depth stake with feather and scent. Browning Strike Force Pro cameras will be used for the surveys and feature 24 mega pixel resolution, red glow infra-red flash, and specific day and night lens. Each camera will be stocked with 6 AA lithium batteries at survey start. Cameras will be checked monthly to download data, refresh attractants, and to ensure cameras are working properly.

### **EAGLE USE SURVEYS**

Tetra Tech in coordination with the USFWS regional eagle coordinator designed an eagle use survey following the recommendations from the U.S. Fish and Wildlife Service Land-Based Wind Energy Guidelines<sup>3</sup> and Eagle Conservation Plan Guidance<sup>4</sup> as well as the Eagle Rule for wind projects. Tetra Tech implemented eagle use surveys at two survey points in January 2020. The objectives of eagle use surveys would be to (1) estimate the distribution (seasonal, spatial, and temporal use) of the project area by eagles, and (2) assess collision risk posed by the Project and (3) collect information that can be used for any future collision risk models or incidental take permits as requested by the agencies. Surveys are planned for a full year to assess year-round risk to eagles.

Due to an additional string of turbines being added to the project (May 2020) an additional eagle use survey point will be added to future eagle use beginning June 2020.

### **GOLDEN EAGLE SURVEYS**

On February 21, 2020, MDIFW recommended 1 year of golden eagle surveys to be conducted February 15–June 15 and August 1–December 15, 2020 following the raptor migration protocol described in MDIFW's Maine Wind Power Preconstruction Recommendations<sup>5</sup>. It is possible that some of the geologic features exhibited by mountains near the Project Area could potentially attract golden eagles. According to MDIFW, there is telemetry documentation of golden activity within the Project Area. A second year of

2 June 2020

<sup>&</sup>lt;sup>1</sup> Nielsen, C.K. and McCollough, M.A., 2009. Considerations on the use of remote cameras to detect Canada lynx in northern Maine. *Northeastern Naturalist*, *16*(1), pp.153-158.

<sup>&</sup>lt;sup>2</sup> Siren, A.P.K. 2014. A comparison of snow-track and camera surveys for detecting Canada lynx (*Lynx Canadensis*) and sympatric carnivores in north central New England. Unpublished report. New Hampshire Fish and Game.

<sup>&</sup>lt;sup>3</sup>https://www.fws.gov/ecological-services/es-library/pdfs/WEG\_final.pdf

<sup>&</sup>lt;sup>4</sup>https://www.fws.gov/migratorybirds/pdf/management/eagleconservationplanguidance.pdf

<sup>&</sup>lt;sup>5</sup> MDIFW (Maine Department of Inland Fisheries and Wildlife). 2018. Maine Wind Power Preconstruction Recommendations and Turbine Curtailment Recommendations to Avoid/Minimize Bat Mortality. Updated March 5, 2018.

golden eagle surveys may be requested pending results from the first year. Prior to receiving MDIFW's recommendations, Tetra Tech had been conducting eagle use surveys at the site (two survey points, 1 hour at each point, every 2 weeks) starting on January 10, 2020 based on recommendations from the USFWS Land-based Wind Energy Guidelines<sup>6</sup> and Eagle Conservation Plan Guidance<sup>7</sup> for wind projects across the United States. Tetra Tech began the first golden eagle survey following MDIFW's recommendations on March 4, 2020. Due to an additional string of turbines being added to the project (May 2020) an additional survey point will be added to future eagle use and golden eagle surveys.

Golden eagle surveys are conducted two times per week two survey points, one day at each survey point, every week in the spring) in weather conducive to golden eagle movement, from 9am until 2 hours before sunset. An additional third survey point will be added to the fall survey. A survey point in the new additional string and a one of the two surveys points in the original project area will be sampled weekly during the fall surveys.

The number of individuals, behavior (especially foraging or stopover/staging activity), flight height (especially abrupt changes owing to orographic lift) and direction, time of sighting, and location/direction of travel of each bird relative to the Project area are recorded. Incidental observations of raptors are also recorded. Data is collected digitally in the field using electronic data forms loaded on to a ruggedized tablet and related to spatial data collection through an integrated global positioning system (GPS). Data is synced daily to Tetra Tech's centralized, cloud-based database. All data will be summarized and incorporated into a brief technical memorandum.

### **BREEDING BIRD SURVEY**

In their March 10, 2020 Preliminary Resource Survey Recommendations for the Project, MDIFW requested a breeding bird survey for the Project Area. A breeding bird survey will document nesting birds during 10-minute point counts designed to document singing males. Three separate survey events will be completed from late May to early June following MDIFW guidance. Point count surveys will be representative of the habitats within the Project area and be a minimum of 200 meters apart. Survey efforts would be focused on grassland bird species, American pipit (*Anthus rubescens*), upland sandpiper (*Bartramia longicauda*), and rusty blackbird (*Euphagus carolinus*), among others. Tetra Tech would also contact MDIFW to discuss if there is any known information on the presence of these species in the Project Area. Species composition and abundance survey results would be incorporated into a brief field survey report.

This survey will update work conducted by Tetra Tech at the Project Area during late May and early June, 2013 when three rounds of breeding bird point count surveys were completed. During those surveys, 17 point count locations were sampled for 10 minutes each, resulting in 510 minutes of survey effort. A total of 371 birds representing 47 species were observed and recorded. The number of observations at each point count location ranged from 12 to 36. The species richness (i.e., number of different species occurring within a given area) varied from 7 to 18 species per point. Of the 47 species observed during the 2013 breeding bird survey, six species are listed as species of special concern by MDIFW. These species include northern harrier (*Circus hudsonius*), rusty blackbird, black-and-white warbler (*Mniotilta varia*), white-throated sparrow (*Zonotrichia albicollis*), least flycatcher (*Empidonax minimus*), and chestnut-sided warbler (*Setophaga pensylvanica*).

<sup>&</sup>lt;sup>6</sup> March 2012. Available at <a href="https://www.fws.gov/ecological-services/es-library/index.html">https://www.fws.gov/ecological-services/es-library/index.html</a>.

<sup>&</sup>lt;sup>7</sup> April 2013. Available at <a href="https://www.fws.gov/ecological-services/es-library/index.html">https://www.fws.gov/ecological-services/es-library/index.html</a>.

### ROARING BROOK MAYFLY, NORTHERN SPRING SALAMANDER, AND NORTHERN BOG LEMMING PRESENCE/ABSENCE SURVEY

In their March 10, 2020 Preliminary Resource Survey Recommendations for the Project, MDIFW indicated that both the state-listed threatened Roaring Brook mayfly (*Epeorus frisoni*) and the northern spring salamander (*Gyrinophilus porphyriticus porphyriticus*), a state-listed species of special concern, have the potential to exist in the Project Area. MDIFW also noted that Roaring Brook mayflies are known to be present in Caratunk.

Roaring Brook mayflies are restricted to clean, cold, high-elevation headwater streams with coarse substrates above 1,000 feet elevation and bordered by relatively undisturbed mixed or hardwood forest. The Roaring Brook mayfly survey will be conducted by a subcontractor in September 2020 following MDIFW's revised Recommended Survey Protocol for the Roaring Brook Mayfly (April 17, 2020). Dipnet samples of gravel/cobble riffle areas and leaf pack surveys will be conducted in two reaches of Chase Stream and Mink Brook which are above 1000' in elevation. These two streams cross the existing powerline corridor to the Wyman Dam substation. Bassett Brook is a tributary of Chase Stream. The upper reach of Bassett Brook, located to the west of Stream Rd., is above 1000' in elevation. Heald Stream is outside of the study area but has an unnamed tributary that flows from the study area at an elevation above 1000' and will be sampled. . Surveys will include all possible habitat upstream and downstream of the power line crossings. Field support will be provided by Tetra Tech staff, as necessary. All late instar specimens of Epeorus will be preserved in 70 percent ethanol for identification to species in the lab and delivered to Tetra Tech. The Maine Department of Environmental Protection (MDEP) field sheet for habitat and water quality will be completed for each sample location. Tetra Tech will submit all Epeorus samples to MDIFW for verification. Tetra Tech will develop a final field report or technical memorandum summarizing the survey effort.

**Northern spring salamanders** use clear, cold, mountain streams underlain by coarse substrates at or above 500 feet and bordered by hardwood or mixed wood forests. The species typically occurs in moderate to fast gradient first or second order streams. They can also occur in larger third-order streams and rivers with similar habitat characteristics. Field work will be conducted by a team of two Tetra Tech biologists between mid-May and mid-September, following MDIFWs *Northern Spring Salamander Survey Protocols* (September 25, 2019). A minimum of one field visit and a maximum of three field visits will be conducted. Tetra Tech will develop a brief field report or technical memorandum summarizing the survey effort.

Northern bog lemming habitat consists of alpine sedge meadows, krummholz, spruce-fir forest with dense herbaceous and mossy ground cover, acidic wet meadows, and mossy stream-sides that are at or above 1,000 feet elevation in the western mountain and northern areas of Maine. Most of the Project area and interconnection line is above 1,000 feet. Suitable habitat for northern bog lemming will be documented and evaluated during other field surveys, especially vernal pool surveys and wetland delineation. If potential habitats meet the criteria above, surveys will be conducted to document presence/probable absence, including documenting the presence of green scats, latrines, and runways and the collection of field samples for eDNA testing. Tetra Tech will contact MDIFW's Small Mammal Biologist for the latest guidance and protocols.

4

### **GREAT BLUE HERON SURVEY**

The great blue heron (*Ardea herodias*) is listed in Maine as a species of special concern. In their *March 10, 2020 Preliminary Resource Survey Recommendations for the Project,* MDIFW recommended a great blue heron survey to update previous surveys and ensure coverage of the Project Area. Tetra Tech will conduct an aerial survey for great blue heron rookeries within a 4-mile radius of the Project Area boundaries to look for new and existing colonies and level of use. The survey will be conducted by helicopter with one Tetra Tech biologist in a 1-day effort May 1–June 15, 2020 in conjunction with the eagle aerial nest survey. Incidental sightings of herons during other surveys will also be documented. Results of this survey and incidental observations will be summarized and included in the Project's permit applications.

Great blue heron were observed incidentally at the Project Area during a raptor use survey conducted during the summer of 2013. An aerial survey for eagle nests and great blue heron rookeries was completed in 2013, but no great blue heron rookeries were observed during the survey (Tetra Tech 2015).

### NORTHERN LONG-EARED BAT ACOUSTIC PRESENCE/ABSENCE SURVEY

The Project area falls within the designated white-nose syndrome (WNS) zone of the northern long-eared bat (*Myotis septentrionalis*; NLEB). Since some tree clearing is expected along the access roads and proposed turbine pads, a presence/absence survey for NLEB also will be completed within the Project Area in accordance with the latest USFWS Range-wide Indiana Bat Survey Guidelines (Guidelines). The NLEB is a medium-sized interior forest bat adapted to feeding on insects beneath the forest canopy. Found primarily across much of eastern and north-central U.S., NLEBs roost under tree bark and in small tree cavities of live and standing dead trees (snags) as well as on or in buildings. The species is more solitary than most other *Myotis* species, and individuals are generally found singularly or in small maternity colonies (typically fewer than 60 individuals). The NLEB inhabits intact interior forest habitat with late successional features such as complex vertical structure, tree fall gaps, and standing snags. NLEBs hibernate from October or November until mid-March in caves, mines, and sometimes other man-made structures. Winter hibernacula can be up to 150 miles away from summer roost sites. As a cavehibernating bat, NLEB has been strongly affected by WNS, with population declines observed in most of its range. The entire state of Maine either includes counties with WNS-infected hibernacula, or is within the 150-mile buffer zone around WNS-positive counties.

This survey will utilize a two-phased approach: Phase 1–desktop and field-based habitat assessments, and Phase 2–field-based habitat ground-truthing and acoustic surveys. Prior to conducting field work, a qualified biologist will use Google Earth (or a similar application) to review aerial photography and identify areas that may be used by NLEB and other bats for foraging and roosting during the breeding and migration seasons (Phase 1 of Guidelines). Potentially suitable roosting habitat will be identified based on forest patch size and proximity to suitable foraging habitats. Closed-canopy forests will be considered potentially suitable roosting or foraging sites and will be further evaluated during the field assessment. In addition to potential roosting habitat, landscape features that may be used by bats commuting between roosting and foraging habitats (e.g., fence rows, wind breaks) will also be identified. Any areas that could potentially support hibernacula, including karst or similar geological formations will also be evaluated. Protected natural resources (e.g., parks, wildlife refuges, wildlife management areas) near the project area will also be noted.

The desktop assessment will inform decision-making regarding (1) whether a project is linear or non-linear, (2) what the appropriate level of effort would be for the field verification, (3) how many acoustic

5 June 2020

detectors should be deployed, and (4) the approximate locations of where acoustic detectors will be deployed (Figure 1). Basic field maps and GPS points may be generated during the desktop assessment to support field work. Based on a preliminary desktop assessment, the Project Area was determined to be linear, following a path that includes the transmission line and all access roads associated with the proposed turbine pads. A minimum of 2 detector nights are required per kilometer of suitable habitat for linear projects; therefore, Tetra Tech will deploy acoustic detectors for a minimum of detector nights distributed throughout the Project Area based on the final project layout. The exact number of detectors and detector nights will be determined after a formal desktop habitat assessment has been performed.

Following USFWS approval of this Study Plan, Tetra Tech will conduct a site visit to verify the presence of and describe the NLEB habitat identified during the desktop analysis, and to deploy the acoustic detectors. The acoustic survey will utilize full-spectrum Wildlife Acoustics bat detectors. Acoustic surveys will be performed within the protocol sampling window (May 15–August 15) in 2020 in accordance with the Guidelines.

Upon completion of the survey, recorded acoustic data will be analyzed in accordance with the Guidelines, which recommends a multi-stage approach to call analysis. The data will be run through a coarse filter analysis, followed by a quantitative analysis, and then a final qualitative analysis of the results will be performed by a qualified biologist. In accordance with the Guidelines, one or more of the approved analysis programs will be used for the quantitative analysis step. Tetra Tech will prepare a brief technical memorandum of the survey results.

#### **EAGLE NEST SURVEY**

USFWS has recommended an aerial eagle nest survey within a 4-mile radius of the Project Area boundaries to look for new and existing nests. This survey will update a previous survey conducted by Tetra Tech on April 16, 2013. The survey will be conducted by helicopter with one Tetra Tech biologist in a 1-day effort May 1–June 15, 2020 in conjunction with the great blue heron survey. Results of this survey and incidental observations will be summarized and included in the Project's permit applications.

The 2013 survey used a 10-mile radius and identified three active bald eagle nests, and one active nest just outside the 10-mi radius area. All four of these nests were previously mapped by MDIFW, and all four nests were located in large, super-canopy eastern white pines (*Pinus strobus*) along the banks of the Kennebec River. There were no eagle nests found within the Project area. The closest nest to the Project boundary was 5.4 miles (8.7 kilometers), and the mean inter-nest distance between the four nests was 7.08 miles (11.4 kilometers). No great blue heron rookeries or golden eagles (*Aquila chrysaetos*) nests were observed during the aerial survey (Tetra Tech 2015).

#### UPLAND SANDPIPER SURVEY

In their March 10, 2020 Preliminary Resource Survey Recommendations for the Project, MDIFW requested additional surveys for upland sandpiper since they have been previously recorded on site. In addition to the breeding bird survey areas, searches will be conducted by a wildlife biologist over four one-day site visits during the months of June, July, August, and September looking to determine seasonal use. Site visits will be focused within grassland, barren, or bog habitats that are most likely to support breeding upland sandpiper and will be timed to occur during clear weather conditions to improve detectability. Survey of suitable breeding habitats will consist of meandering transects to record visual observations and audible calls. Audible whistles also may be used during the survey to determine presence. Survey locations

6 June 2020

and the number of adults and young observed/heard, approximate locations of active nests and nesting activities, and habitat notes will be documented on field maps, with a GPS, and photographed (if possible). One-day of survey work will consist of two survey periods, with the first occurring at dusk (1800–2030) and the second occurring the following morning at dawn (0415–0615). Species composition and abundance survey results would be incorporated into a brief field survey report.

### **VERNAL POOL SURVEY**

Tetra Tech will perform a vernal pool survey of the Project area, including completion of two site visits to identify vernal pools and assess their significance in accordance with Chapter 335 of the NRPA:

"A vernal pool, also referred to as a seasonal forest pool, is a natural, temporary to semipermanent body of water occurring in a shallow depression that typically fills during the spring or fall and may dry during the summer. Vernal pools have no permanent inlet or outlet and no viable populations of predatory fish. A vernal pool may provide the primary breeding habitat for wood frogs (Rana [Lithobates] sylvatica), spotted salamanders (Ambystoma maculatum), blue-spotted salamanders (Ambystoma laterale), and fairy shrimp (Eubranchipus sp.), as well as valuable habitat for other plants and wildlife including several rare, threatened, and endangered species. A vernal pool intentionally created for the purposes of compensatory mitigation is included in this definition."

The criteria for identifying a Significant Vernal Pool are described in detail in the April 2014 Maine Association of Wetland Scientists Vernal Pool Technical Committee Vernal Pool Survey Protocol. This survey effort focuses on the requirements to meet Maine regulations relating to vernal pools, as well as recording egg mass counts in Amphibian Breeding Areas.

The first round of vernal pool surveys will be initiated approximately two weeks following reports of full wood frog chorusing (as reported by local area wetland scientists). The Project falls within the MDIFW Central Region, which has target windows for vernal pool surveys conducted for wood frogs between April 25–May 10, and salamander egg masses between May 5–May 25. Two rounds of vernal pool surveys (i.e., secondary visits to surveyed pools to assess later breeding or emergence of vernal pool indicator species) will take place approximately 2–3 weeks after an appropriately timed first visit, depending on weather and reports from proximal field efforts regarding vernal pool activity.

When a resource is encountered that appears to meet the definition of a vernal pool, biologists will GPS the edge of the pool (during spring high water conditions). Scientists will wade through the pool to search for vernal pool indicator species egg masses, presence of fairy shrimp, and/or associated RTE species. The second round of vernal pools surveys will be conducted to assess for later breeding vernal pool indicator species, the presence of fairy shrimp (which often do not emerge until late spring), and/or associated RTE species.

For vernal pools that extend beyond the Project boundary, efforts will be made to visually survey the pool for the presence of egg masses to an approximate distance of no greater than 30 feet from the Project boundary. Photographs and notes regarding the potential full extent of these vernal pools (as much as can be ascertained in this manner) will be collected. All vernal pools will be photographed from various angles. Representative photos of egg masses will be taken. Shapefiles of the delineated vernal pool spring high water boundaries will be provided to Patriot upon completion of the work. All data will be summarized and incorporated into a comprehensive report.

7



