

Engineers • Environmental Scientists • Surveyors

**MEMO** 

- To: Tim Brochu, PLS/ file CES, Inc.
- From: Johanna Szillery, CSS CES, Inc.



**RE:** Verification of USDA Soils Mapping – Silver Maple Wind Energy Project Clifton, Maine

Date: June 17, 2020

CES, Inc. (CES) completed on-site verification of USDA soils mapping on the proposed Silver Maple Wind Energy Project located in Clifton, Maine. Field work was conducted on May 21, 2020. Field work on the Site consisted of transecting the ridgeline proposed for the wind turbines (the Site) to develop an understating of the landforms present. To verify USDA soil types on the Site, nine test pits were classified; and additional auger borings were used to support test pit observations. Prior to the soils verification, natural resource surveys were completed on the Site in July 2018, and observations associated with these visits have informed the conclusions in this Memo. As part of our natural resources survey work, we also reviewed both upland and wetland areas and the soils associated with them, using hand auger borings and hand dug test pits.

Our observations of the type and extent of soils on Site are consistent with those mapped by the USDA county soil survey, which is attached to this Memo. The ridgeline where the wind turbines are sited is dominated by an association of deep, silt loam tills in the Marlow catena that occur in a consistently repeating pattern with areas of shallow, silt loam tills in the Tunbridge and Lyman series. The deep silt loam tills are the moderately well drained Peru series; however, other members in this catena, such as the somewhat poorly drained Colonel series and the well drained Marlow, are assumed to be present. The shallow to bedrock Tunbridge and Lyman series were observed on the Site, as were indicators of shallow bedrock, such as rock outcrops and steep slopes. We did not observe soils on the Site that are considered dissimilar limiting inclusions from those described in this Memo and shown on the USDA soils mapping. These soils would pose an unknown variable during construction. Attached, please find the test pit logs that describe our soils observations on the Site. Test pit locations are shown on *Sheet C001, Overall Plans, Notes, and Legend.* 

As related to soils, limiting conditions were observed associated with shallow to bedrock soils. Standard construction techniques, such as blasting and rock anchors for turbine foundations, may be used to addresses these limitations. Limiting conditions were also observed associated with high seasonal water table/hydric soils on the Site. These deep, poorly drained silt loam soils derived from till are in the Brayton series. Wetlands have been reviewed as part of CES' natural resource survey on the Site and identified as wetland where the areas meet the established regulatory criteria.

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Natural Resources **Conservation Service** 

Web Soil Survey National Cooperative Soil Survey

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♥ ◎ ○ > + :: = ◆ ♪ ∅	Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.		

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AKD	Abram-Knob Lock-Rock outcrop complex, 3 to 30 percent slopes	33.5	3.4%
AKF	Abram-Knob Lock-Rock outcrop complex, 30 to 100 percent slopes	41.6	4.3%
BPA	Brayton-Peacham complex, 0 to 3 percent slopes, extremely stony	32.8	3.4%
BRB	Brayton-Colonel complex, 0 to 8 percent slopes, very stony	42.9	4.4%
BSC	Becket-Skerry complex, 3 to 15 percent slopes, very bouldery	68.5	7.0%
BW	Bucksport and Wonsqueak mucks, 0 to 2 percent slopes, ponded	16.1	1.7%
ВҮВ	Brayton-Colonel-Lyman complex, 0 to 8 percent slopes, rocky	6.1	0.6%
CDB	Colonel-Peru-Brayton complex, 0 to 8 percent slopes, very stony	11.6	1.2%
НМС	Monadnock-Hermon complex, 3 to 15 percent slopes, extremely bouldery	131.1	13.4%
LKE	Lyman-Abram-Knob Lock complex, 30 to 80 percent slopes, very rocky	6.6	0.7%
LTC	Lyman-Tunbridge complex, 3 to 15 percent slopes, rocky	54.8	5.6%
LTD	Lyman-Tunbridge complex, 15 to 30 percent slopes, rocky	73.7	7.5%
MND	Monadnock-Tunbridge association, 15 to 30 percent slopes, very bouldery	124.9	12.8%
PCC	Peru-Colonel-Tunbridge association, 3 to 15 percent slopes, very stony	183.8	18.8%
SKB	Skerry-Becket-Colonel complex, 0 to 8 percent slopes, very bouldery	37.1	3.8%
TPD	Tunbridge-Peru-Lyman association, 15 to 30 percent slopes, very stony	112.0	11.5%
Totals for Area of Interest		977.2	100.0%

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