11.0 SOILS

Stantec conducted soil surveys within the Project area to document and classify soils within the proposed Project areas, identify potential limitations of the soil, and recommend corrective measures with respect to the documented soils and the proposed development at the site. Specifically, the following surveys were conducted in the following locations:

- Class B (High Intensity Level) survey and mapping within the proposed O&M building and collection substation area
- Class C (Medium High Intensity Level) survey and mapping in proposed solar array areas and Collector lines
- Class L (Linear Level) survey and mapping within the Genlead corridor and associated access routes

The soil survey report is provided as Exhibit 11-1. Soil survey results indicate that, in some areas, this site could require engineered designs to address the limiting factors (e.g., soil with shallow bedrock and surface and subsurface stoniness and boulders) for the proposed Project. However, with proper planning, engineering, and construction techniques, the soils present are suitable for the proposed Project and are not significantly dissimilar than limitations at other successfully developed solar projects constructed in Maine.

Three Corners Solar Project MDEP Site Location of Development Act Permit Application SECTION 11: SOILS

Exhibit 11-1

Three Corners Solar Soils Survey Report



3 Corners Solar Project

Soil Survey Report: Class B: Substation and Operations and Maintenance Building Class C: Panel Array Class L: Transmission Line and Proposed Access

December 23, 2021

Prepared for:

3 Corners Solar, LLC 30 Danforth Street, Suite 201 Portland, Maine 04101

Prepared by:

Stantec Consulting Services Inc. 30 Park Drive Topsham, ME 04086

Sign-off Sheet

The accompanying soil profile descriptions and soil survey maps, and this soil narrative report entitled "3 Corners Solar Project Soil Survey Report", dated December 23, 2021, were completed in accordance with the standards adopted by the Maine Association of Professional Soil Scientists, February 1995, as amended, and prepared by Rodney D. Kelshaw LSS #552.



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1.0 INTRODUCTION

At the request of 3 Corners Solar, LLC, Stantec Consulting Services Inc. (Stantec) completed a soil survey for the proposed 3 Corners Solar Project (Project) in Benton, Clinton, and Unity Township, Maine. The Project consists of the panel array located in Benton, Clinton, and Unity Township; and the associated transmission line, substation, and operations and maintenance (O&M) building in Benton, Maine.

This soil survey report is designed to provide information on the ability or limitation of the soil to support the proposed planned use(s) at this site. The soil survey methods and this report were developed to meet the typical requirements of the Maine Department of Environmental Protection Site Location of Development Act.¹ This soil survey was developed through a compilation of on-site soil and wetland investigation data and supported by publicly available information from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil surveys for Kennebec County.²

2.0 PROJECT SITE DESCRIPTION

The Project is located in the towns of Benton, Clinton, and the unorganized Unity Township in Kennebec County, Maine (Figure 1). The proposed solar array spans into each of these municipalities and is situated north of Unity Road (Route 139), southeast of the Sebasticook River, and east of Fifteenmile Stream. The proposed substation and O&M building are situated in Benton along Bessey Lane, north of Unity Road and south of an existing transmission line. The proposed transmission line corridor is wholly located in Benton and begins at the Albion Road Substation and generally extends to the east approximately 2.1 miles before turning north and extending for approximately 3.1 miles to its terminus at the existing transmission line north of Unity Road. The proposed transmission line corridor crosses Richards Road, East Benton Road, Bog Road, Unity Road, and Bessey Lane. Fifteenmile Stream flows from west to east across the central portion of the proposed transmission line corridor.

The Project site is within a rural setting that is primarily forested, except for a few agricultural fields, and paved and unpaved roads. Bessey Lane, an unpaved gravel road used for forest management and camp access extends north through the proposed panel array. Several of the proposed transmission line access roads are existing gravel roads or improved roads used to gain access to back land for camps, timber management, and agriculture. There are also several large open water and emergent marsh wetland complexes within the Project site. The topography undulates throughout the Project site, consisting of numerous knolls and valleys, with elevations ranging from approximately 130 feet at the

² Source: NRCS Web Soil Survey URL: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx; Version: 19, and reviewed September 11, 2020.



¹ State of Maine, Bureau of Land and Water Quality, Department of Environmental Protection Site Location of Development 38 M.R.S.A. §§ 481-490, Revised October 2015

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Fifteen Mile Stream proposed transmission line crossing to approximately 320 feet in the northeastern section of the proposed panel array.

The site is located in the Level IV Ecoregion 82e "Central Maine Embayment³". This section of Maine has a unique history of geologic and soil forming processes that resulted in an interspersion of soil parent materials and phases of soil development. According to the NRCS Kennebec County soil survey:

Marine, lacustrine, sand, and gravel terraces occur throughout the county at lower elevations, especially along the Kennebec River. Glacial till ridges also occur throughout the county but are mainly concentrated in the western and eastern areas. Many of the soils that formed in marine and lacustrine sediments are used for forage crop production and often need additional drainage and measures to control erosion. Many of the glacial till soils have a firm underlying material that limits internal drainage; surface or tile drains help remove excess water.

Forested upland areas are dominated by red oak (*Quercus rubra*), American beech (*Fagus grandifolia*), eastern hemlock (*Tsuga canadensis*), eastern white pine (*Pinus strobus*), balsam fir (*Abies balsamea*), red maple (*Acer rubrum*), eastern arborvitae (*Thuja occidentalis*), red spruce (*Picea rubens*), green ash (*Fraxinus pennsylvanica*), and yellow birch (*Betula alleghaniensis*). Some areas of recent timber harvests have resulted in early successional and regenerating forest communities consisting of saplings and seedlings of the previously listed tree species as well as quaking aspen (*Populus tremuloides*), speckled alder (*Alnus incana*), and red raspberry (*Rubus idaeus*). The herbaceous layer includes bracken fern (*Pteridium aquilinum*), hay scented fern (*Dennstaedtia punctilobula*), lowbush blueberry (*Vaccinium angustifolium*), and Canadian bunchberry (*Cornus canadensis*). Dominant vegetation in wetlands is highly variable and primarily dependent on hydrology. This range in vegetation includes open water emergent species, emergent marsh/wet meadow, scrub shrub, and forested wetlands. Additional tree species in the wetlands includes American elm (*Ulmus americana*), black ash (*Fraxinus nigra*), and balsam poplar (*Populus balsamerifera*).

3.0 PURPOSE

The purpose of the soil survey is to provide project engineers with site-specific soil information to aid in the project design and to meet regulatory requirements. This report describes the identified soil properties that could be limitations to the project design. Examples of potential limitations include soil drainage, depth to bedrock, surface boulders, and physical or chemical properties that could limit specific uses. Hydrologic Soil Group ratings and soil drainage classes, which are derived from information obtained from the on-site investigation, are required to develop stormwater control plans.

A soil survey is tailored to the specific project; as such, the report may not be suitable for planning of other project types because the soil limitations and properties that are suitable for one proposed

³ Griffith, G.E., J.M. Omernik, S.A. Bryce, J. Royte, W.D. Hoar, J. Homer, D. Keirstead, K.J. Metzler, and G. Hellyer. 2009, Ecoregions of New England (color poster with map, descriptive text, summary tables, and photographs): Reston, Virginia, U.S. Geological Survey (map scale 1:1,325,000).



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development may not be suitable for another. Potential limitations for development identified in this report are intended for this specific Project and should not be used for other purposes.

4.0 METHODS

4.1 STANDARDS

This report and associated maps were completed in accordance with the standards adopted by the Maine Association of Professional Soil Scientists (MAPSS) in the "*Guidelines for Maine Certified Soil Scientists for Soils Identification and Mapping*" (revised 2009)⁴ and follows the standards detailed in the USDA NRCS "*Soil Survey Manual*"⁵. Soils are described using the standard soil terminology developed by the USDA NRCS and the MAPSS Key to Soil Drainage Classes, as well as a list of regional indicators for identification of hydric soils *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regional Supplement*⁶ and the *Field Indicators for Identifying Hydric Soils in New England, Version 4*⁷.

A State of Maine Licensed Soil Scientist (LSS) conducted the on-site soil survey in phases from September through November 2020. Three soil survey classes were completed in different areas based on the proposed Project design.

- Class B (High Intensity) soil survey for the proposed substation.
- Class C (Medium-High Intensity) for the proposed solar array areas and new access road locations.
- Class L soil survey (Linear) for the proposed electrical collection and transmission lines.

A wetland delineation was completed within the entire area surveyed for soils. However, there are portions of the Project site where the wetland delineation was conducted that the soil survey was not, such as large wetland areas where there is no proposed development. The wetland delineations were performed prior to and/or in conjunction with the on-site soil survey.

4.2 ON-SITE INVESTIGATIONS

4.2.1 Proposed Transmission Line, Substation and O&M Building

Stantec conducted a wetland and watercourse delineation of approximately 5.3 miles of proposed transmission line corridor that varied in width extending from the proposed Bessey Lane collection substation to the existing Albion Road substation point of interconnect. This included delineation of

⁷ New England Hydric Soils Technical Committee. 2019 Version 4, Field Indicators for Identifying Hydric Soils in New England. New England Interstate Water Pollution Control Commission, Lowell, MA.



⁴ Maine Association of Professional Soil Scientists. 2009. *Guidelines for Maine Certified Soil Scientists for Soils Identification and Mapping.*

⁵ Soil Science Division Staff. 2017. *Soil Survey Manual, ed.* C. Ditzler, K.Scheffe, and H.C. Monger, USDA Handbook 18. Government Printing Office, Washington, D.C.

⁶ U.S. Army Corps of Engineers. 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, and C.V. Noble. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

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approximately 2 miles of existing access roads, 75 feet from edge of gravel on either side. The total delineation area was approximately 414 acres. The Wetland and Watercourse Delineation Report, dated October 13, 2020, summarizes the methods and results of the wetland and watercourse delineation.⁸

Soil properties were observed during the wetland delineation with enough specificity to make accurate wetland boundary determinations and thus delineate the hydric soil boundaries. This process included multiple auger borings along the wetland boundaries in both the wetland and uplands where soil texture, parent material, and drainage class were observed. Soil survey location data was collected with a mapping grade Global Positioning System (GPS). Features located with the GPS included test pits, hand auger borings, U.S. Army Corps of Engineers wetland paired data plots and observed bedrock outcrops. However, not all test pit and auger boring locations were GPS located.

4.2.2 Proposed Panel Array

Boyle Associates performed the wetland delineation for the proposed solar array area prior to initiation of the soil survey fieldwork. To increase efficiency and accuracy of the soil survey, Boyle Associates shapefile data for wetland boundaries and watercourse locations was provided to Stantec, which were used to aid in the determination of hydric soil boundaries, surface water flow and soil series/map units. The LSS observed the delineated wetland and watercourse feature boundaries on-site and dug additional test pits and auger borings in several wetlands to obtain additional detailed soil information.

4.2.3 Data Collection

An iPad equipped with a mapping grade GPS was loaded with base layers that included an aerial photograph, topography, NRCS soil boundaries, Project site boundaries, proposed project infrastructure, soil survey and wetland delineation investigation limits, and on-site identified wetlands and watercourses. This information was used in the field for both site orientation and data collection.

Fieldwork consisted of documenting soil morphology and characteristics with hand dug test pits, hand auger borings, and existing ditch cuts and borrow areas. Investigations extended to a depth of bedrock, refusal, or limit of the hand auger or hand probe. Other factors used to determine soil characteristics included changes in vegetation, slope, aspect, and observations of surface stones. Test pits, map unit boundaries, observed bedrock, some boring locations, and other pertinent site features were located in the field using the mapping grade GPS enabled iPad. Test pit locations were chosen where representative soil descriptions could be collected to determine the soil series or phase. To develop the soil survey maps included in this report, additional auger borings and observed changes in topography were used to determine the soil series and map unit boundaries. In areas where the slope observed onsite did not appear to be consistent with publicly available contour information the map unit slopes assigned are consistent with the on-site slope observations.

⁸ Stantec Consulting Services Inc. 2021. Wetland and Watercourse Delineation Report: Proposed Transmission Line and Construction Access Routes: Benton, Maine. Prepared for 3 Corners Solar, LLC.



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Identified soil types are depicted on the proposed Project site plans at a scale of 1-inch equals 100 feet for the Class B survey area (Figure 2), 1-inch equals 200 feet for the Class L survey areas (Figures 3-1 to 3-8), and at a scale of 1-inch equals 500 feet for the Class C survey area (Figures 4-1 to 4-16).

5.0 Soil Map and Map Unit Description

5.1 SOIL MAP REQUIREMENTS

Class B (High Intensity) standards were developed to provide information for proposed projects with intensive uses where hydric soil boundaries or the location of suitable areas for moderate to heavy soil disturbance require site specific soil information. Less intensive uses only need a medium high intensity soil survey (Class C). The Class L (for Linear Projects) standards were developed by MAPSS to provide minimum soil information necessary to allow for the design and construction of long but narrow projects with little or no adjacent development. These standards were the basis of this soil survey and are detailed in Appendix D: MAPSS Standards for Soil Surveys. The accompanying soil figures/maps meet the requirements of Class B, C, and L soil surveys, as outlined by the MAPSS Guidelines. The soil survey map units are designed according to the standards of the National Cooperative Soil Survey. The soils are classified at the series level according to the current Keys to Soil Taxonomy. Soil map units depicted on maps and described in this report are phases of soil series.

5.2 SOIL MAP UNITS

Soil map unit boundaries are depicted on the accompanying soil survey maps. Each map unit may be composed of the named soil and smaller areas of other soil series or phases (inclusions). Most inclusions have properties or patterns that are similar to those of the dominant soil in the map unit and generally do not affect use and management.

A soil survey map unit consists of a portion of the landscape composed of the identified soil and associated landscape properties, such as similar topography, aspect, configuration, stoniness, vegetation, depth to seasonal groundwater table, depth to bedrock, depth to impermeable layer, soil texture and color (soil horizons) and miscellaneous land area. The area enclosed by a map unit boundary has a minimum of 75% of the soil(s) that provide the name of that map unit or similar soil (i.e., soils that differ so little from the named soil(s) in the map unit that there are no important differences in interpretations). No inclusion is greater in size than the named soil(s). The total amount of dissimilar soils (soils that differ sufficiently from the named soil(s) to affect major interpretations) do not exceed 25% of the map unit.

6.0 SOIL SURVEY FINDINGS

Soil test pit data is included on the Soil Conditions Summary Table (Form E) as Appendix A and the Test Pit/Auger Boring Logs (Form F) as Appendix B. Appendix C are the Soil Map Unit Descriptions,



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Appendix D are the MAPSS Soil Survey standards, and Appendix E is a Glossary of terms. The attached Map Unit Descriptions describe soil physical properties and how they may affect Project design, construction, and operations.

6.1 CLASS B SOIL SURVEY: PROPOSED SUBSTATION

The Class B soil survey area encompasses approximately 5.7 acres and was conducted for the proposed substation and O&M building area (Figure 2). It is located north of Unity Road, between Unity Road and the existing electricity utility line. The site is a mix of natural, mixed-wood forest, and an area cleared of trees and replanted with coniferous saplings.

The site is encompassed within four map units: Brayton very stony fine sandy loam: 0-3% slopes (slope group A), Colonel/Peru Complex: 3-8% slopes (slope group B), Peru/Colonel Complex: 3-8% slopes (slope group B), and Tunbridge/Lyman Complex: 8-15% slopes (slope group C). The Class B Soil Survey Map (Figure 2) is included as a report attachment. See the attached Map Unit Descriptions in conjunction with the attached figures to see where these soils occur to determine site specific potential limitations.

6.1.1 Brayton Stony Fine Sandy Loam (BrA)

The Brayton series is shallow to a dense substratum yet very deep to bedrock. It formed in loamy lodgement till and is situated in depressions and on toeslopes. They are poorly drained (hydric) soils and are mapped as wetland. The dense, shallow substratum produces a condition with a water table at or near the soil surface which could create limiting factors such as rutting, drainage issues, and frost action.

6.1.2 Colonel/Peru Complex (CpB)

The Colonel and Peru series are shallow to a dense substratum yet very deep to bedrock. They formed in loamy lodgement till and are situated on till plains, ridges and sideslopes. Peru soils are moderately well drained and Colonel soils are somewhat poorly drained. The dense, shallow substratum typically produces a condition with a water table close to the soil surface which could create limiting factors such as rutting, drainage issues, and frost action. The pit and mound land surface creates microtopography that is so interspersed the somewhat poorly drained Colonel cannot be separated from the moderately well drained Peru. In this map unit there are more pits than mounds, resulting in more somewhat poorly drained soil than the PcB map unit.

6.1.3 Peru/Colonel Complex (PcB)

The Peru and Colonel series are shallow to a dense substratum yet very deep to bedrock. They formed in loamy lodgement till and are situated on till plains, ridges and sideslopes. Peru soils are moderately well drained and Colonel soils are somewhat poorly drained. Since this map unit is located adjacent to the Tunbridge/Lyman complex it is assumed there is some overlap and there could be areas with soil that has bedrock closer to the soil surface. The dense, shallow substratum typically produces a condition with a water table close to the soil surface which could create limiting factors such as rutting, drainage issues, and frost action. The pit and mound land surface creates microtopography that is so interspersed the



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somewhat poorly drained Colonel cannot be separated from the moderately well drained Peru. In this map unit there are more mounds than pits resulting in better drained soil than the CpB map unit.

6.1.4 Tunbridge/Lyman Complex (TIC)

The Tunbridge series consists of well drained, moderately deep soils. The Lyman series consists somewhat excessively drained, shallow soils. They formed in loamy, supraglacial till and are situated on glaciated uplands on ridgetops and sideslopes. A bedrock outcrop was observed within the existing electrical distribution line to the north of the site and bedrock was observed to be within 40 inches of the soil surface. The mapped soils do not appear to have physical or chemical properties that would have a significant negative effect for the proposed Project planned for this area. Depth to bedrock appears to be the most limiting factor, which can be overcome by blasting or other engineering techniques.

6.2 CLASS C SOIL SURVEY: PROPOSED SOLAR PANEL ARRAY

The Class C soil survey encompassed approximately 1096-acres and was conducted for the proposed solar panel array area (Figures 3-1 to 3-8). These figures depict the Class C soil survey boundary overlaid onto an aerial photograph. The wetland data depicted on these plans is the on-site wetland delineation for this proposed Project. On-site soils identified were formed through multiple, active geologic process. The evidence suggests that glaciers advanced and receded multiple times and resulted in a combination of dense glacial till and supraglacial melt out till where debris carried by the glacier melted out in place and draped across the landscape. When the sea level encroached landward from its current location and was within the Project boundary it deposited marine and lacustrine sediments in low-lying plains and valleys. Some of these areas also contain swamps and bogs with deep organic surface soil. This also resulted in areas where soil parent materials are mixed and do not fit into a named soil series. An example of this is along some valley toeslopes where silty clay marine sediments are draped over very stony sandy loam, dense glacial till. It also resulted in some areas where a thin mantle of very stony sandy loam surface is draped across marine sediment silt loam parent material. See the attached Map Unit Descriptions in conjunction with the attached figures to see where these soils occur and determine site specific potential limitations.

6.3 CLASS L SOIL SURVEY: PROPOSED TRANSMISSION LINE

The Class L soil survey encompassed approximately 415-acres and was conducted for the proposed transmission line (Figures 4-1 to 4-16). The wetland data depicted on these plans is the on-site wetland delineation for this proposed Project. On-site soils identified were formed through multiple, active geologic process and described earlier in this report. See the attached Map Unit Descriptions in conjunction with the attached figures to see where these soils occur and determine site specific potential limitations.



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7.0 CONCLUSIONS AND SURVEY LIMITATIONS

Results of this soil survey conclude that in some areas this site could require engineered designs to address the limiting factors for the proposed solar power generating facility. However, with proper planning, engineering, and construction techniques, the soils present are suitable for the proposed Project and are not significantly dissimilar than limitations at other successfully developed solar power projects constructed in Maine. The most limiting factors at this site are high water tables and lateral surface flow in some non-wetland areas, areas with soil shallow bedrock, and surface and subsurface stoniness and boulders. The soil drainage in poorly and somewhat poorly drained soil can also be a concern for construction and long-term Project use, such as rutting, freeze/thaw cycles, and other issues associated with a high-water table.

Increasing the impervious area can increase stormwater surface flow quantity and velocity. Engineering techniques to control stormwater flow and runoff during construction will be important to minimize the potential for impacts to downslope resources. Long-term engineering controls that can be utilized include vegetated buffers and structures that do not constrict surface and subsurface flow.

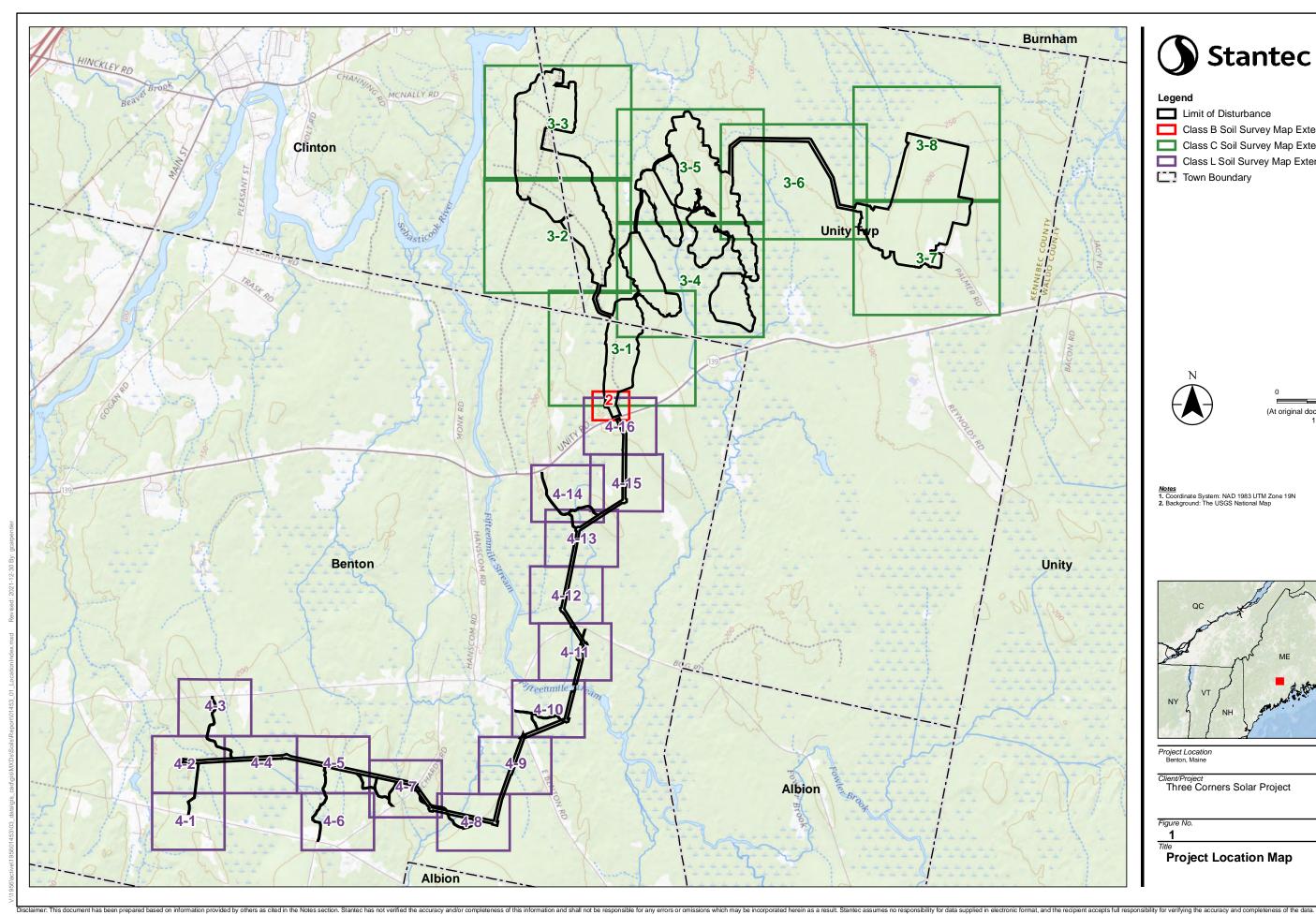
The scope of this investigation was conducted in accordance with the Class B, C, and L soil survey standards and guidelines established by MAPSS. The conclusions and recommendations presented in this soil report are based on data obtained from on-site investigation and supplemental USDA NRCS soil maps and information. This soil report and associated soil figures were prepared for exclusive use by 3 Corners Solar, LLC, for specific application to their proposed construction of the 3 Corners Solar Project.

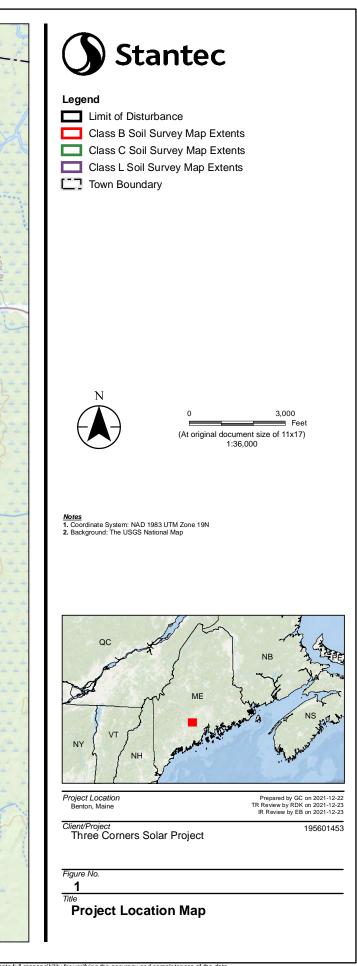
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FIGURES

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Figure 1. Site Location Map





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Figure 2. Class B Soil Survey Map

Class B Soil Survey Figure Map Unit Boundary Legend					
Map Unit					
Symbol	Map Unit Name	HSG			
BrA	Brayton vstfsl, 0-3% slopes	D			
СрВ	Colonel/Peru Complex, 3-8% slopes	C/D			
РсВ	Peru/Colonel Complex, 3-8% slopes	C/D			
TIC	Tunbridge/Lyman Complex, 8-15% slopes	C/D			

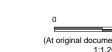






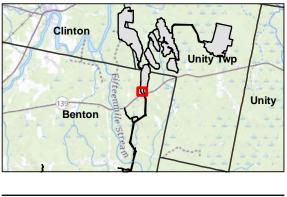
Legend

- Test Pit
- X Bedrock
- -- Soil Map Unit Boundary
- Soil Survey Area
- Collection Substation
- Limit of Disturbance
- PbA Map Unit Symbol





Notes 1. Coordinate System: NAD 1983 UTM Zone 19N 2. Data Sources: Base features obtained from the Maine Office of GIS (MEGIS). Wetland and stream delineation performed by Stantec in July 2020. 3. Background: Aerial imagery provided by ArcGIS Online World Imagery Mapping Services.



Project Location Benton, Maine

Prepared by GC on 2021-12-22 TR Review by RDK on 2021-12-23 IR Review by EB on 2021-12-23

Client/Project Three Corners Solar Project

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Figure No.

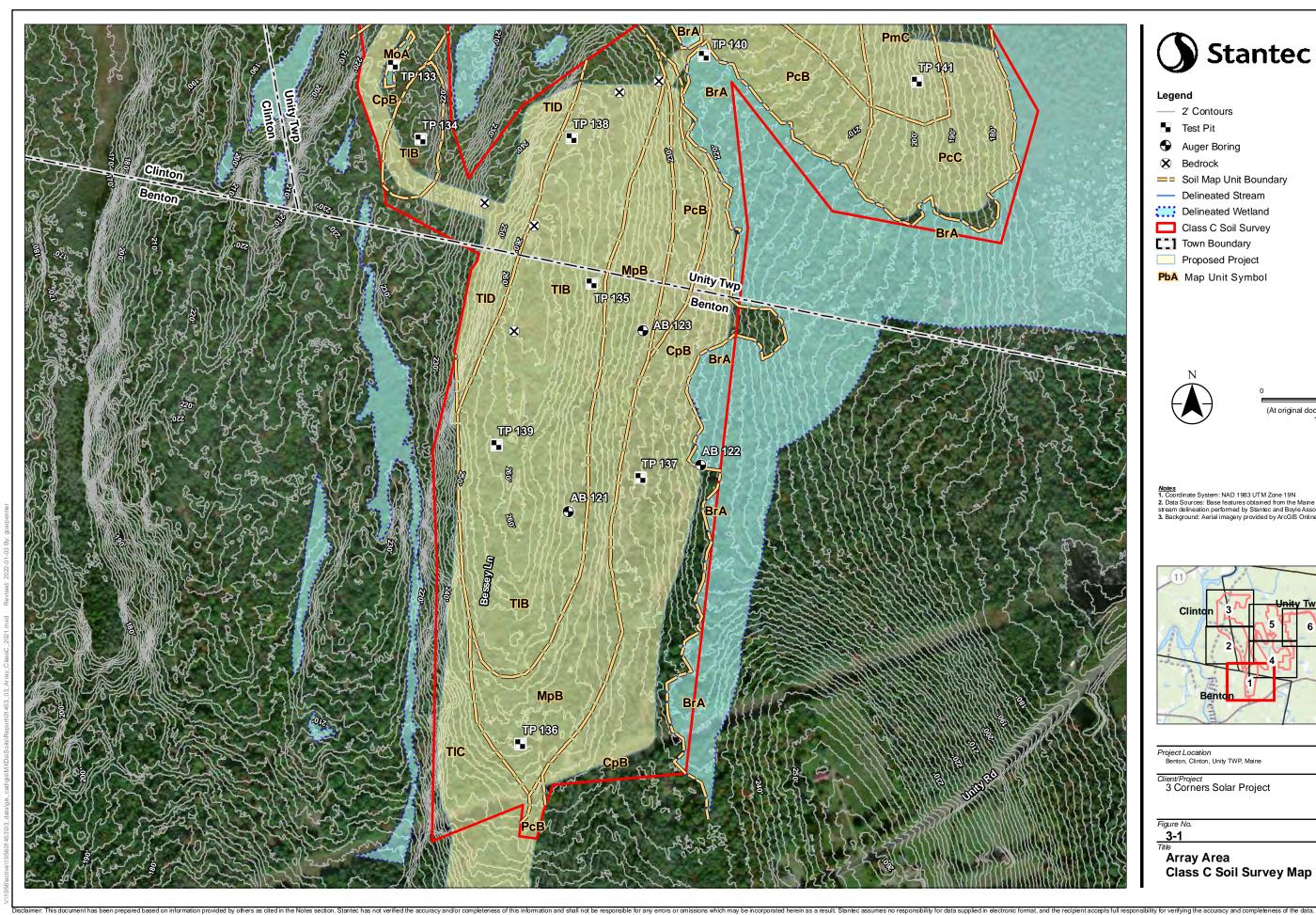
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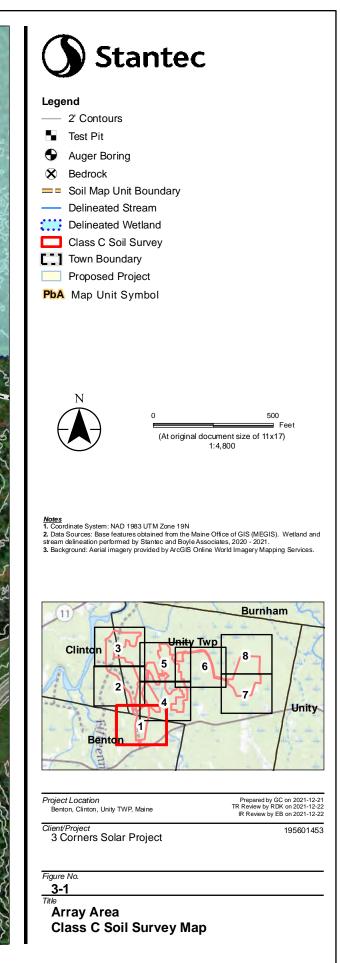
Collection Substation and O&M Building Class B Soil Survey Map

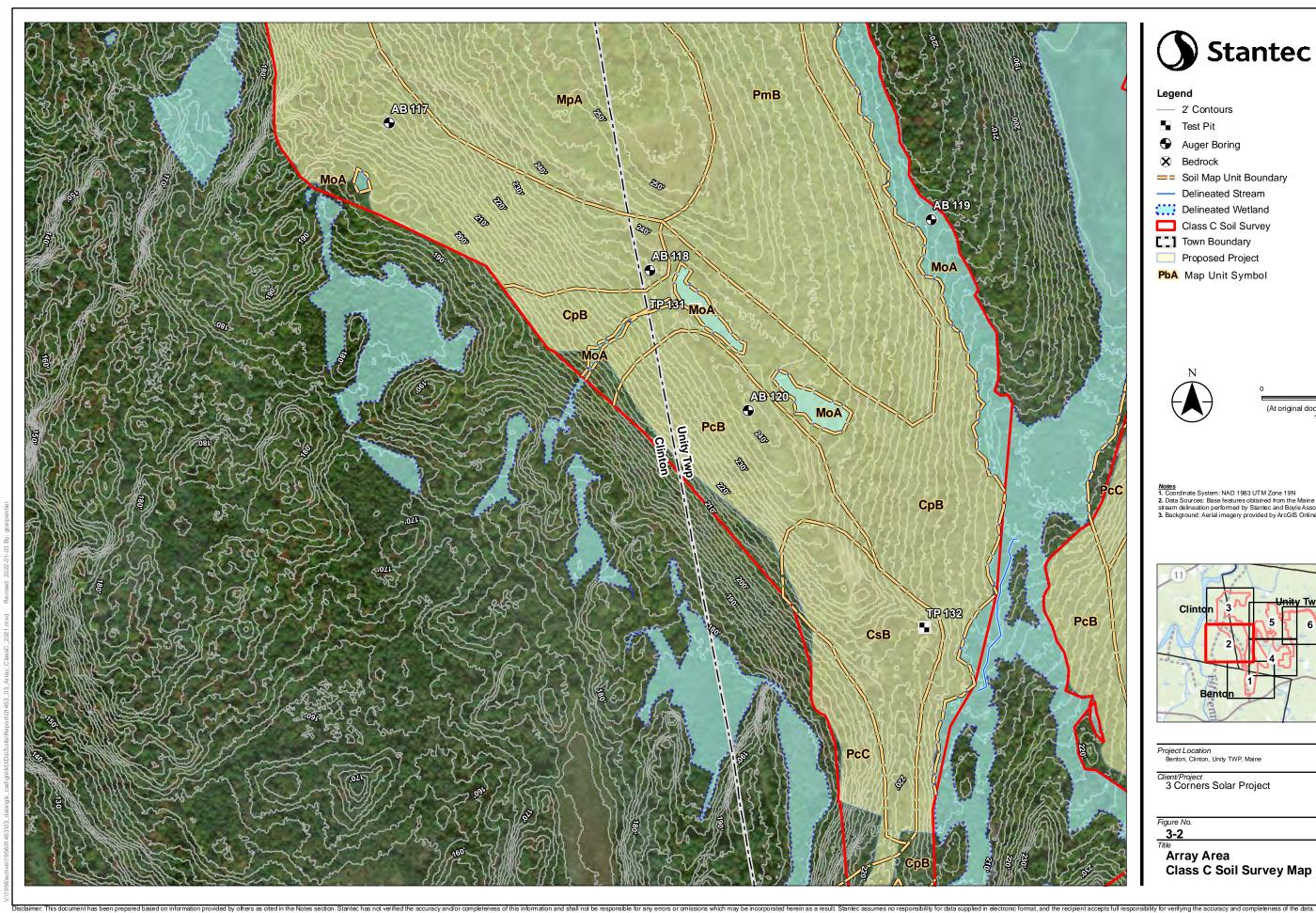
December 23, 2021

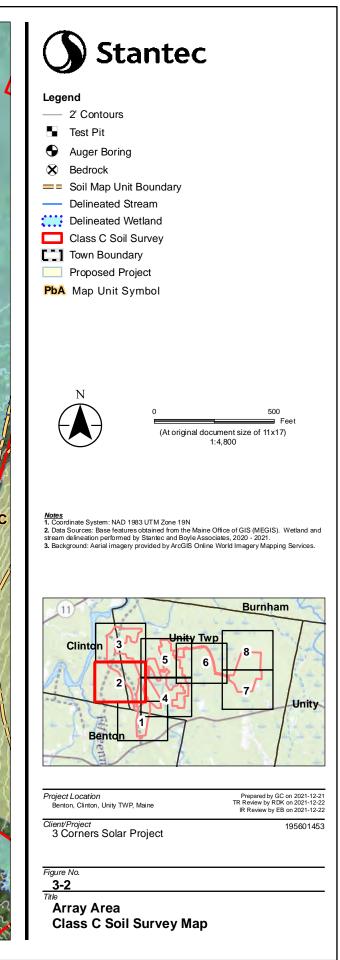
Figures 3-1 to 3-8. Class C Soil Survey Maps

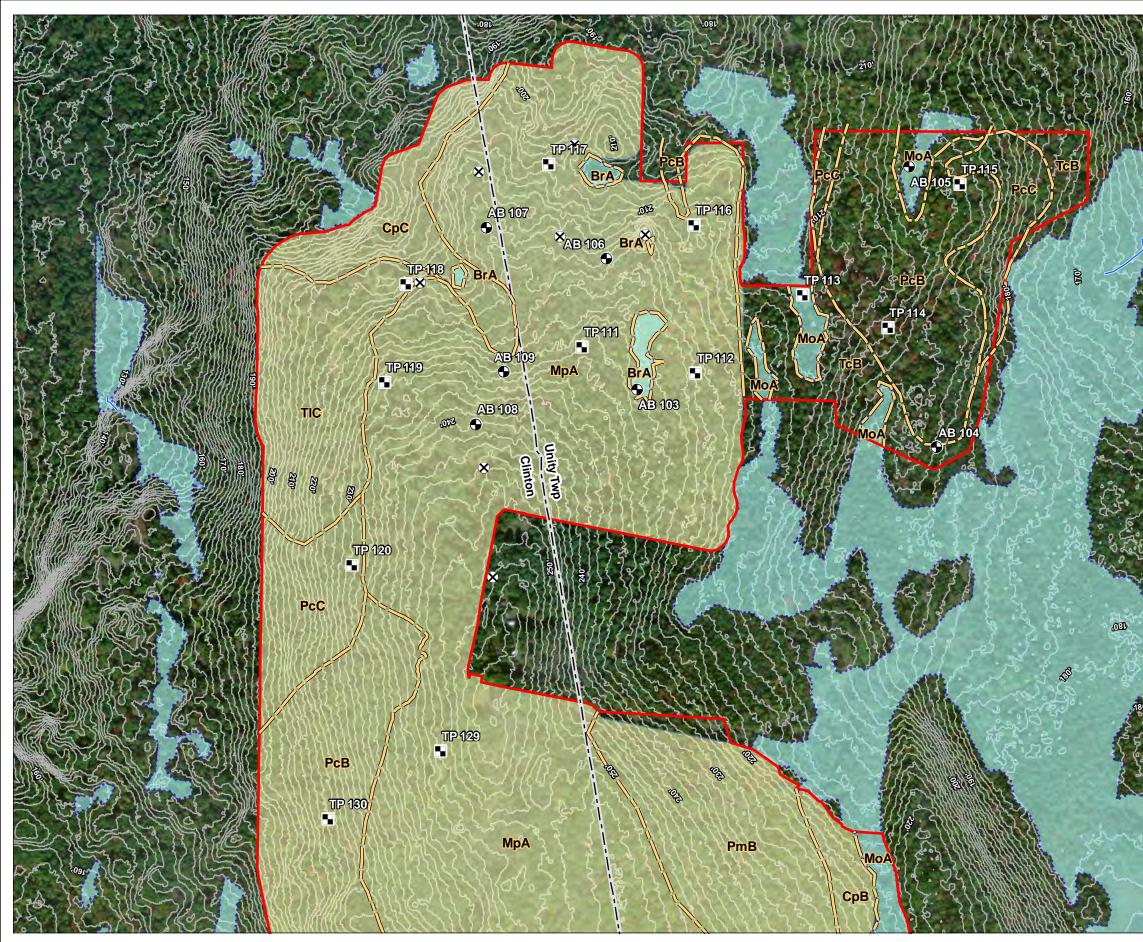
Class C Soil Survey Figure Map Unit Boundary Legend				
Map Unit Symbol	Map Unit Name	HSG		
BmA	Burnham/Monarda Complex, 0-3% slopes	D		
BrA	Brayton vstfsl, 0-3% slopes	D		
BsA	Biddeford/Scantic Complex, 0-3% slopes	D		
СоВ	Colonel stsl, 3-8% slopes	D		
СрА	Colonel/Peru Complex, 0-3% slopes	C/D		
СрВ	Colonel/Peru Complex, 3-8% slopes	C/D		
СрС	Colonel/Peru Complex, 8-15% slopes	C/D		
CsB	Colton ls, 3-8% slopes	А		
LyC	Lyman fsl, 8-15% slopes	D		
MoA	Monarda sil, 0-3% slopes	D		
MoC	Monarda sil, 8-15% slopes	D		
МрА	Marlow/Peru Complex, 0-3% slopes	C/D		
МрВ	Marlow/Peru Complex, 3-8% slopes	C/D		
PcB	Peru/Colonel Complex, 3-8% slopes	C/D		
PcC	Peru/Colonel Complex, 8-15% slopes	C/D		
PeA	Peacham mucky peat, 0-3% slopes	D		
PmB	Peru/Marlow Complex, 3-8% slopes	C/D		
PmC	Peru/Marlow Complex, 8-15% slopes	C/D		
ScA	Scantic sil, 0-3% slopes	D		
ТсВ	Telos/Chesuncook Complex, 3-8% slopes	C/D		
TIA	Tunbridge/Lyman Complex, 0-3% slopes	C/D		
TIB	Tunbridge/Lyman Complex, 3-8% slopes	C/D		
TIC	Tunbridge/Lyman Complex, 8-15% slopes	C/D		
TID	Tunbridge/Lyman Complex, 15-35% slopes	C/D		

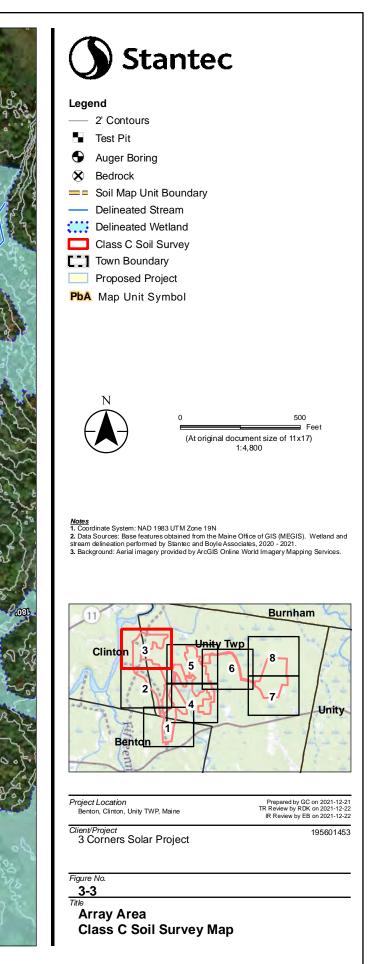


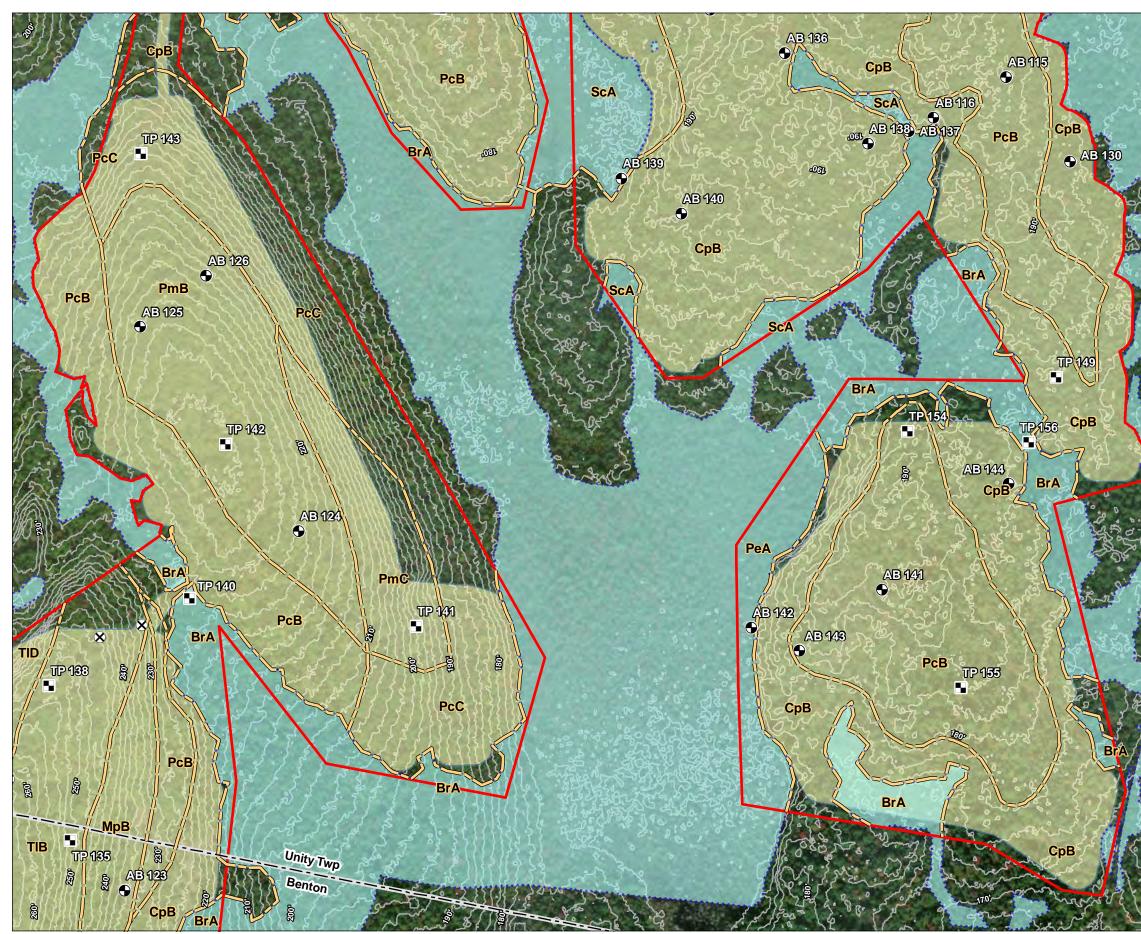




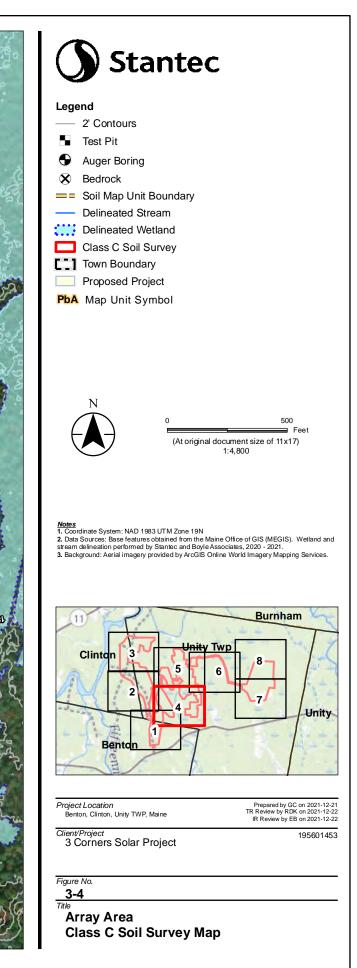


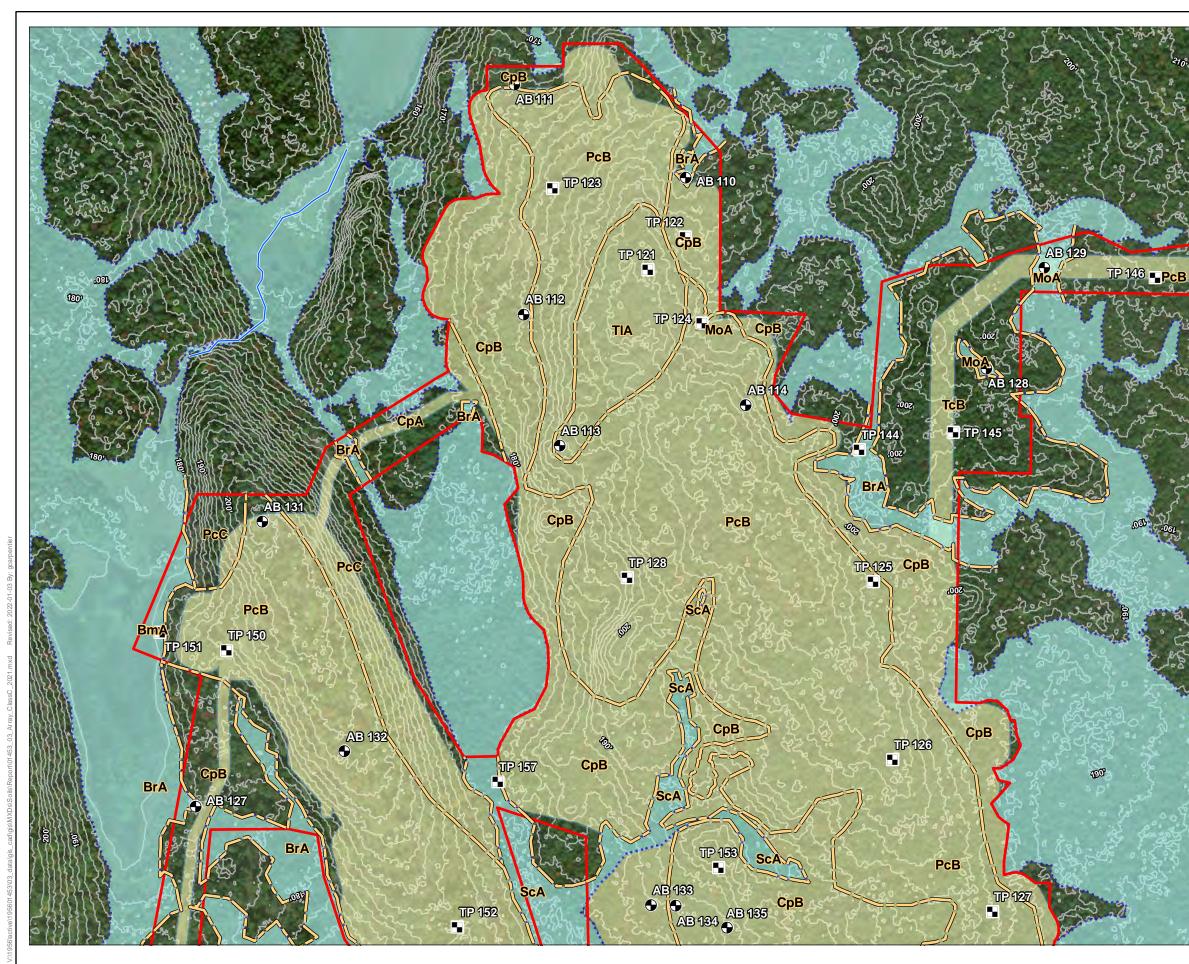


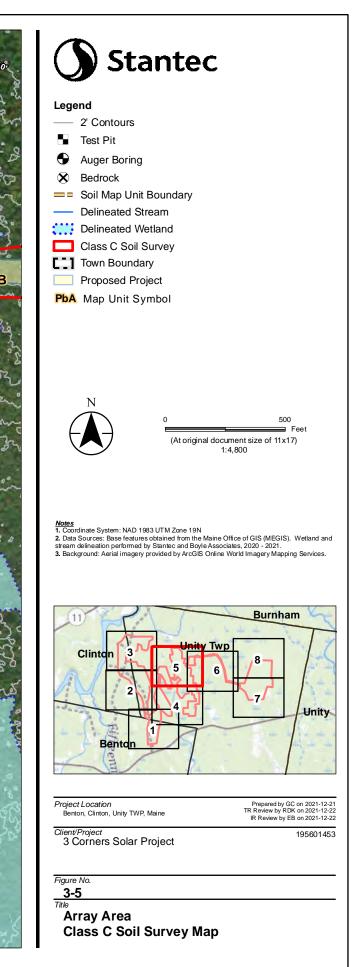


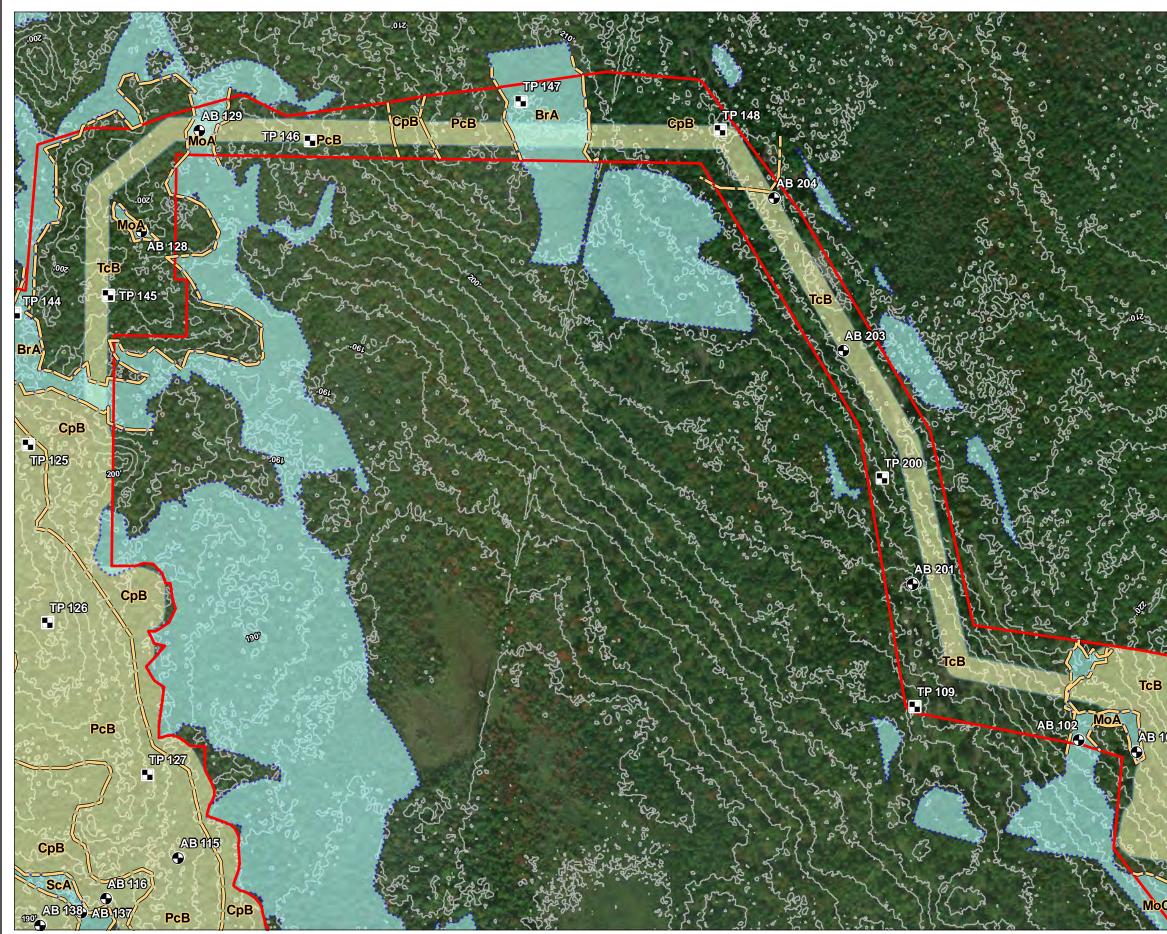


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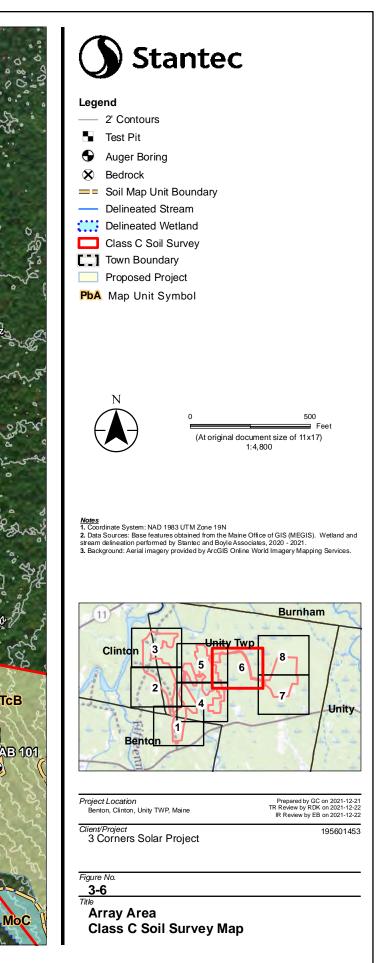




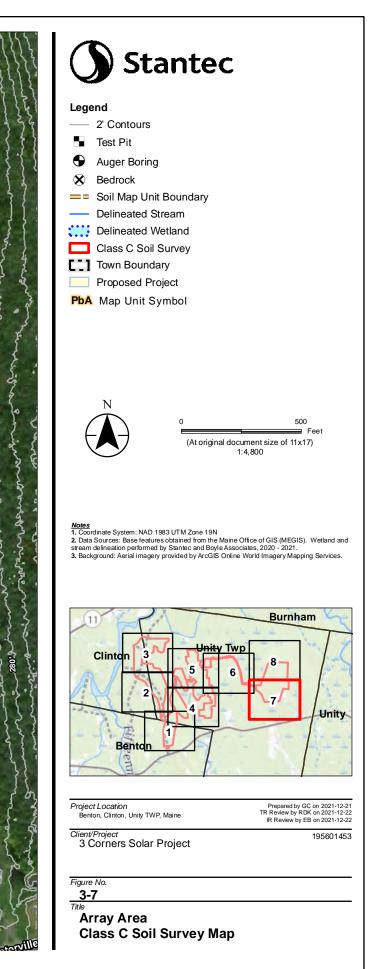


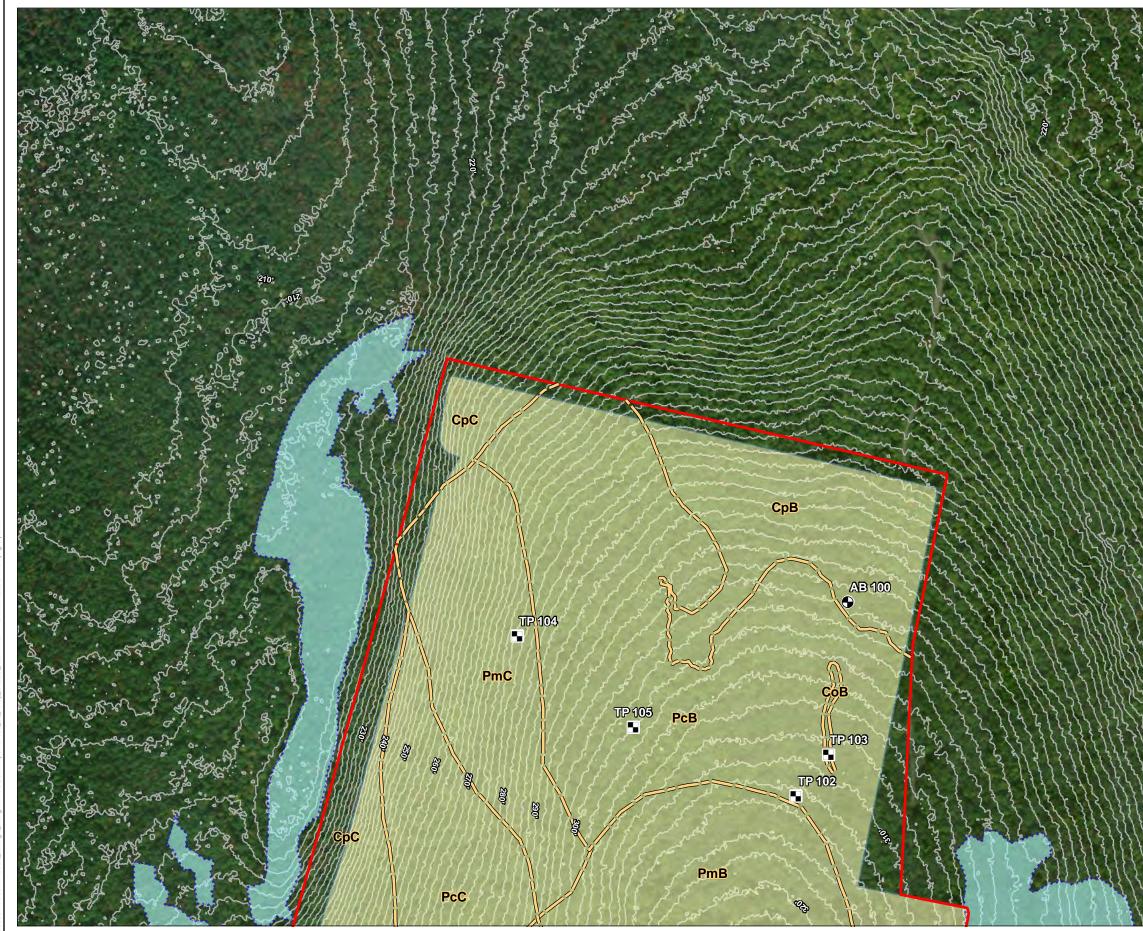


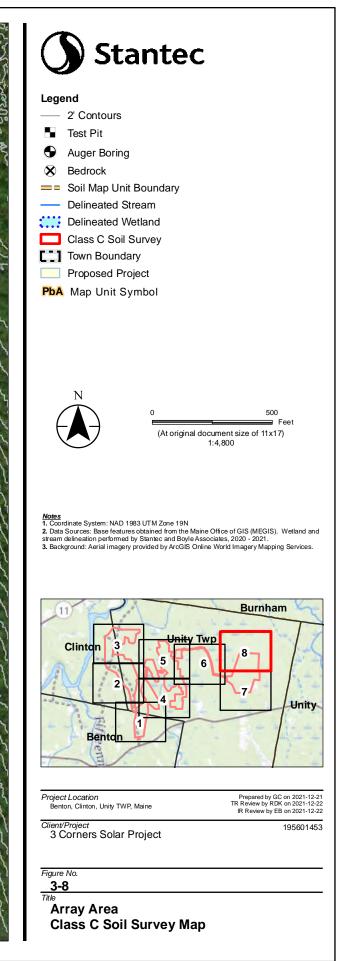
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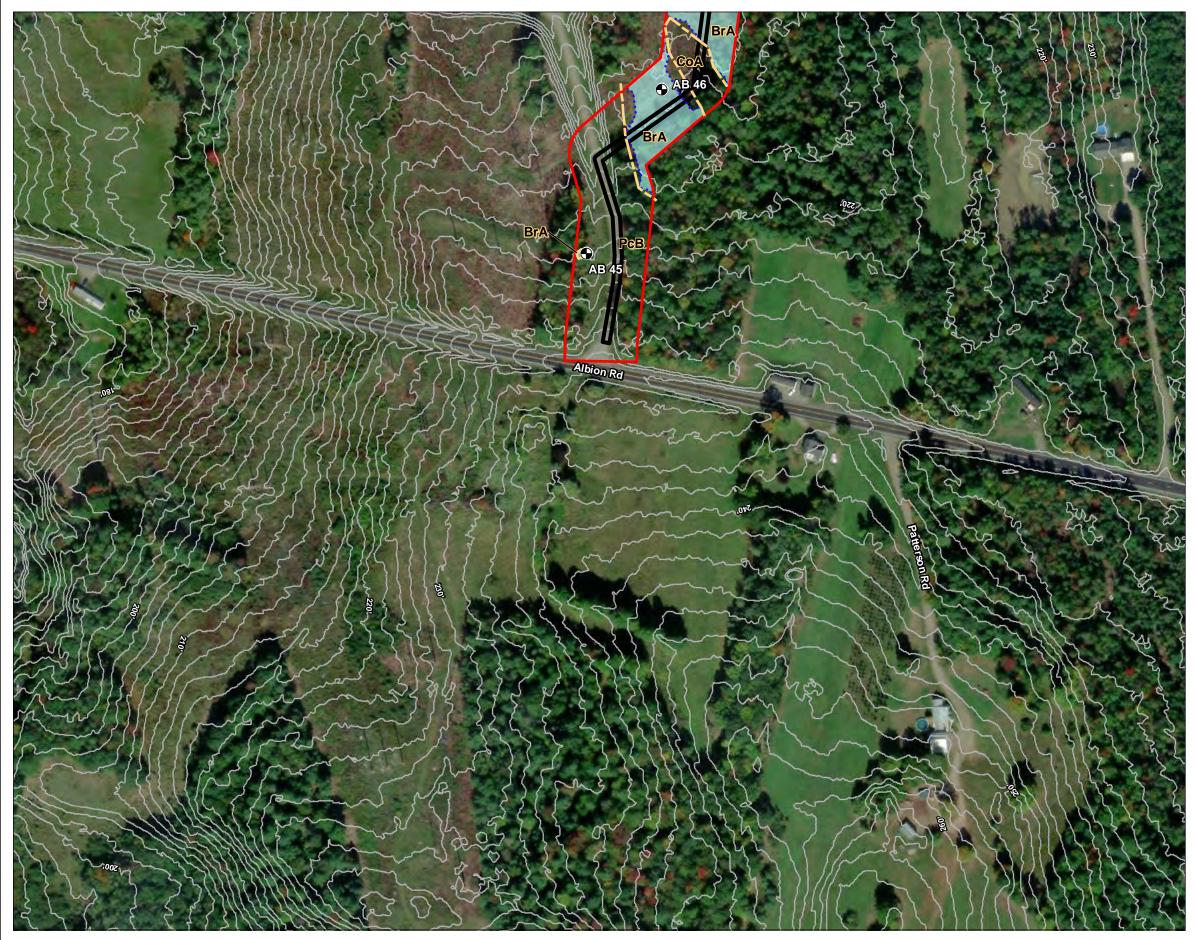
December 23, 2021

Figures 4-1 to 4-16. Class L Soil Survey Maps

Class L Soil Survey Figure Map Unit Boundary Legend				
Map Unit				
Symbol	Map Unit Name	HSG		
BmA	Burnham/Monarda Complex, 0-3% slopes	D		
BrA	Brayton vstfsl, 0-3% slopes	D		
BrB	Brayton vstfsl, 3-8% slopes	D		
BrC	Brayton vstfsl, 8-15% slopes	D		
BsA	Biddeford/Scantic Complex, 0-3% slopes	D		
СоА	Colonel stsl, 0-3% slopes	D		
CoC	Colonel stsl, 8-15% slopes	D		
СрВ	Colonel/Peru Complex, 3-8% slopes	C/D		
СрС	Colonel/Peru Complex, 8-15% slopes	C/D		
НоВ	Howland sil, 3-8% slopes	C/D		
НоС	Howland sil, 8-15% slopes	C/D		
HoD	Howland sil, 15-35% slopes	C/D		
		Not		
HtM	Human Transported Materials	Rated		
LaA	Lamoine sil, 0-3% slopes	D		
LaB	Lamoine sil, 3-8% slopes	D		
LbB	Lamoine/Buxton Complex, 3-8% slopes	C/D		
LbC	Lamoine/Buxton Complex, 8-15% slopes	C/D		
LrA	Lyme sl, shallow to mod. deep, 0-3% slopes	D		
LrB	Lyme sl, shallow to mod. deep, 3-8% slopes	D		
LtB	Lyman/Tunbridge Complex, 3-8% slopes	C/D		
LtC	Lyman/Tunbridge Complex, 8-15% slopes	C/D		
LyC	Lyman fsl, 8-15% slopes	D		
LyD	Lyman fsl, 15-35% slopes	D		
MoA	Monarda sil, 0-3% slopes	D		
MoC	Monarda sil, 8-15% slopes	D		
PbA	Peacham/Brayton Complex, 0-3% slopes	D		
PbC	Peacham/Brayton Complex, 8-15% slopes	D		
PcA	Peru/Colonel Complex, 0-3% slopes	C/D		
РсВ	Peru/Colonel Complex, 3-8% slopes	C/D		
PcC	Peru/Colonel Complex, 8-15% slopes	C/D		
PcD	Peru/Colonel Complex, 15-35% slopes	C/D		
PmB	Peru/Marlow Complex, 3-8% slopes	C/D		
PmD	Peru/Marlow Complex, 15-35% slopes	C/D		

December 23, 2021

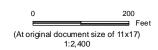
ScA	Scantic sil, 0-3% slopes	D
ScB	Scantic sil, 3-8% slopes	D
SrA	Scantic sil, mod. deep, 0-3% slope	D
SrD	Scantic sil, mod. deep, 15-35% slope	D
ТсВ	Telos/Chesuncook Complex, 3-8% slopes	C/D
TcC	Telos/Chesuncook Complex, 8-15% slopes	C/D
TcD	Telos/Chesuncook Complex, 15-35% slopes	C/D
TIB	Tunbridge/Lyman Complex, 3-8% slopes	C/D
TIC	Tunbridge/Lyman Complex, 8-15% slopes	C/D
TID	Tunbridge/Lyman Complex, 15-35% slopes	C/D





Legend

- 2' Contours
- Test Pit
- Auger Boring
- 8 Bedrock
- -- Soil Map Unit Boundary
- Corps Paired Plot
- --- Delineated Intermittent Stream
- Delineated Perennial Stream
- Delineated Wetland
- Class L Soil Survey Area
- Limit of Disturbance
- PbA Map Unit Symbol

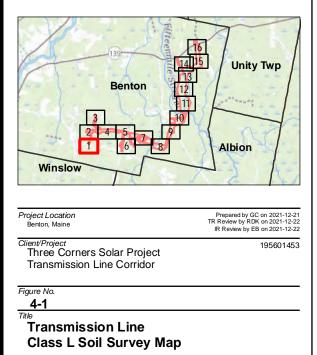


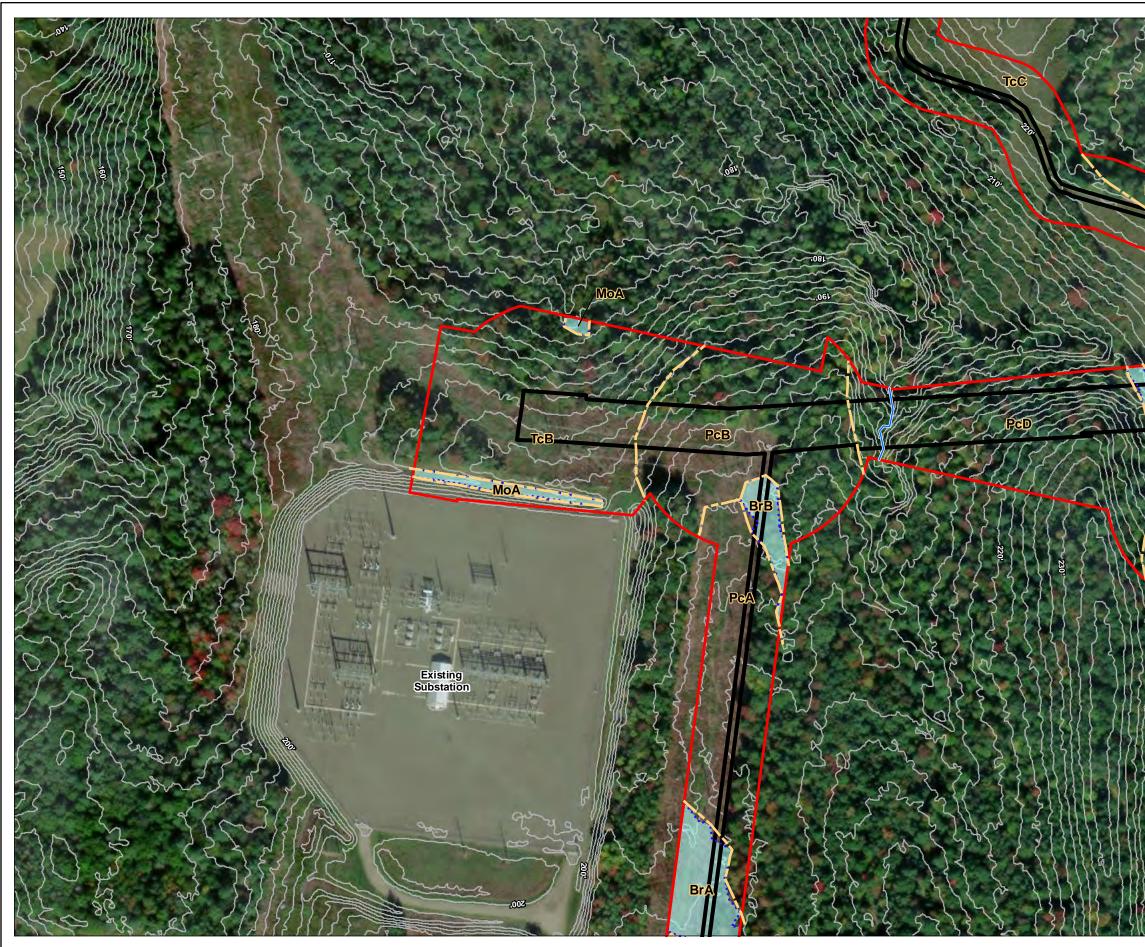
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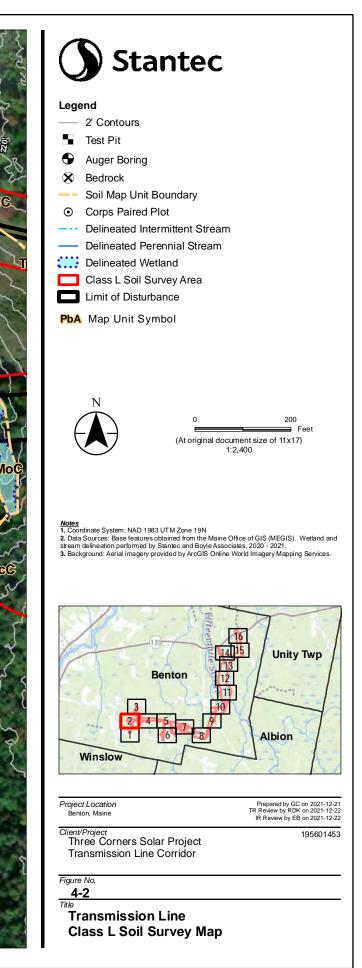
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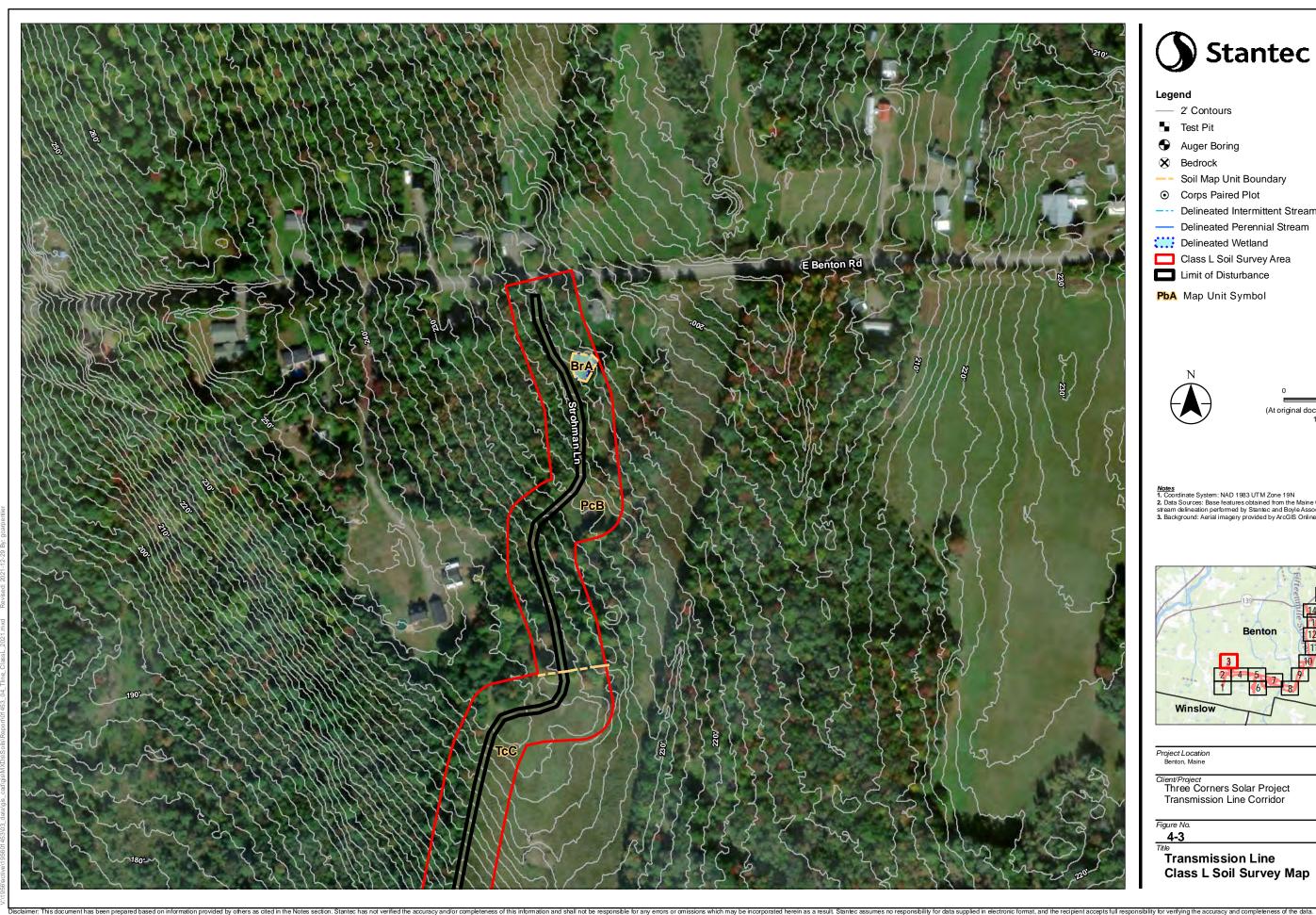
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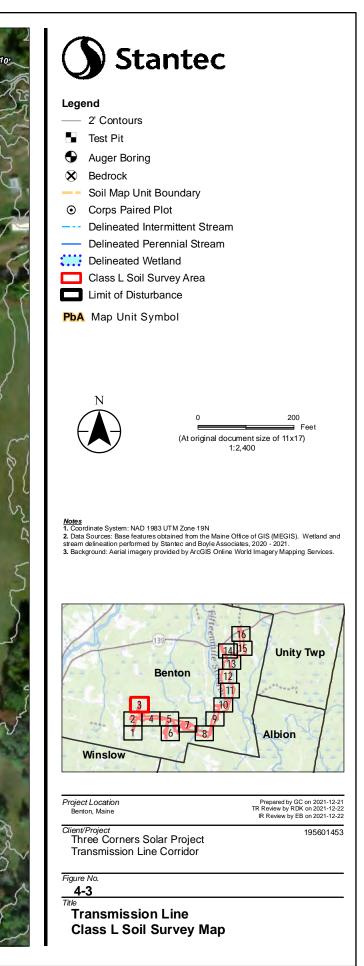
 3. Background: Aerial imagery provided by ArcGIS Online World Imagery Mapping Services.

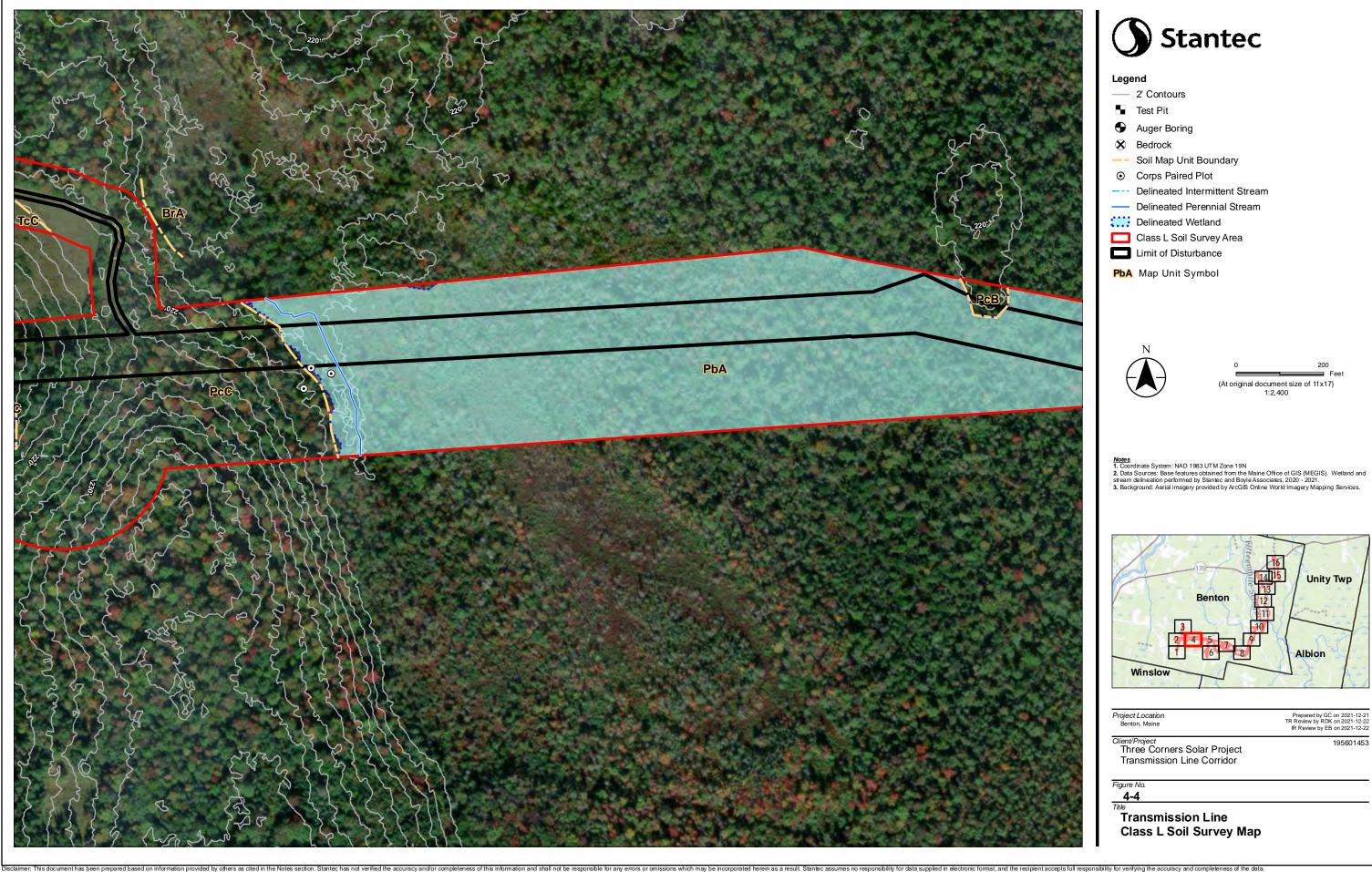












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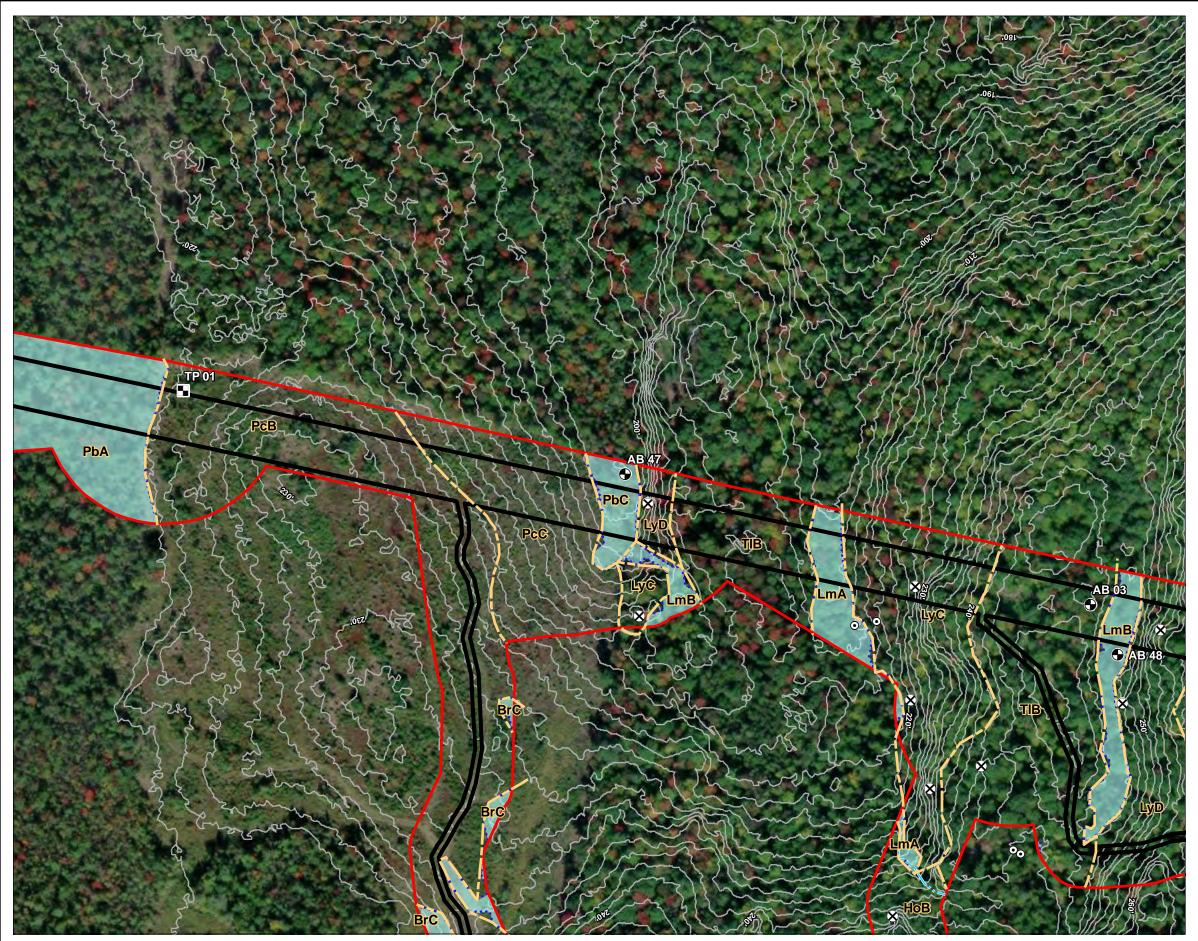
Benton

Unity Twp

Prepared by GC on 2021-12-21 TR Review by RDK on 2021-12-22 IR Review by EB on 2021-12-22

195601453

Albion





Legend

- 2' Contours
- Test Pit
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- Corps Paired Plot
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- Delineated Wetland
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PbA Map Unit Symbol

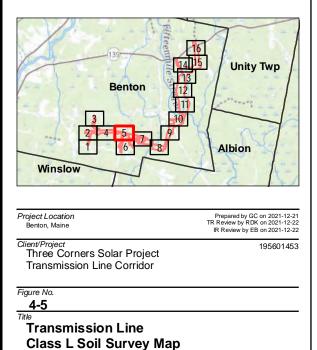


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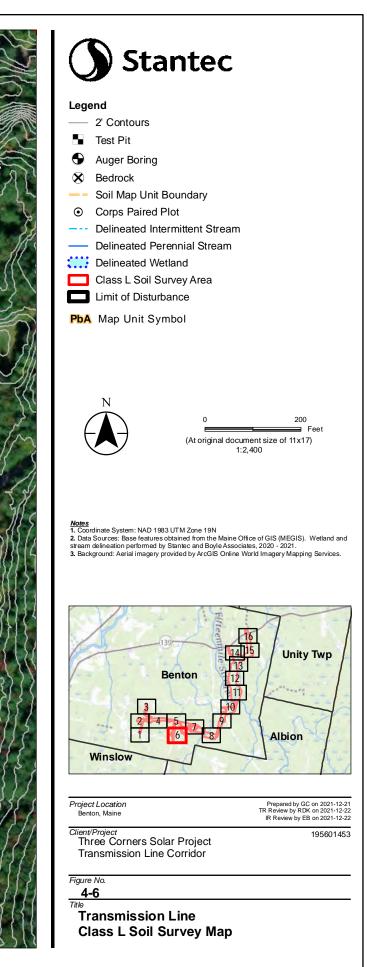
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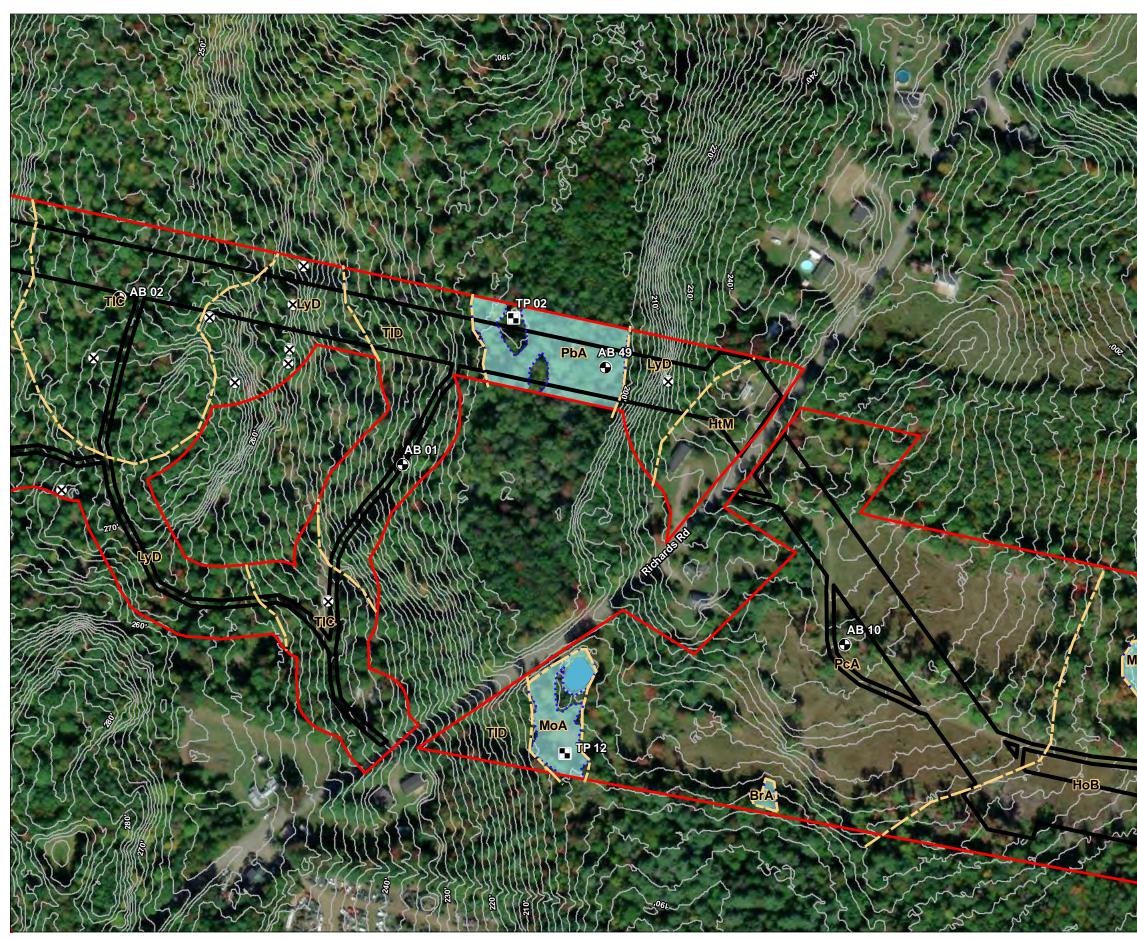
 2. Data Sources: Base features obtained from the Maine Office of GIS (MEGIS). Wetland and stream delineation performed by Stantec and Boyle Associates, 2020 - 2021.

 3. Background: Aerial imagery provided by ArcGIS Online World Imagery Mapping Services.













Legend

- 2' Contours
- Test Pit
- Auger Boring
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- --- Soil Map Unit Boundary
- Corps Paired Plot
- --- Delineated Intermittent Stream
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- Delineated Wetland
- Class L Soil Survey Area
- Limit of Disturbance
- PbA Map Unit Symbol

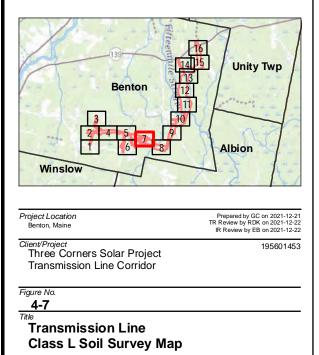


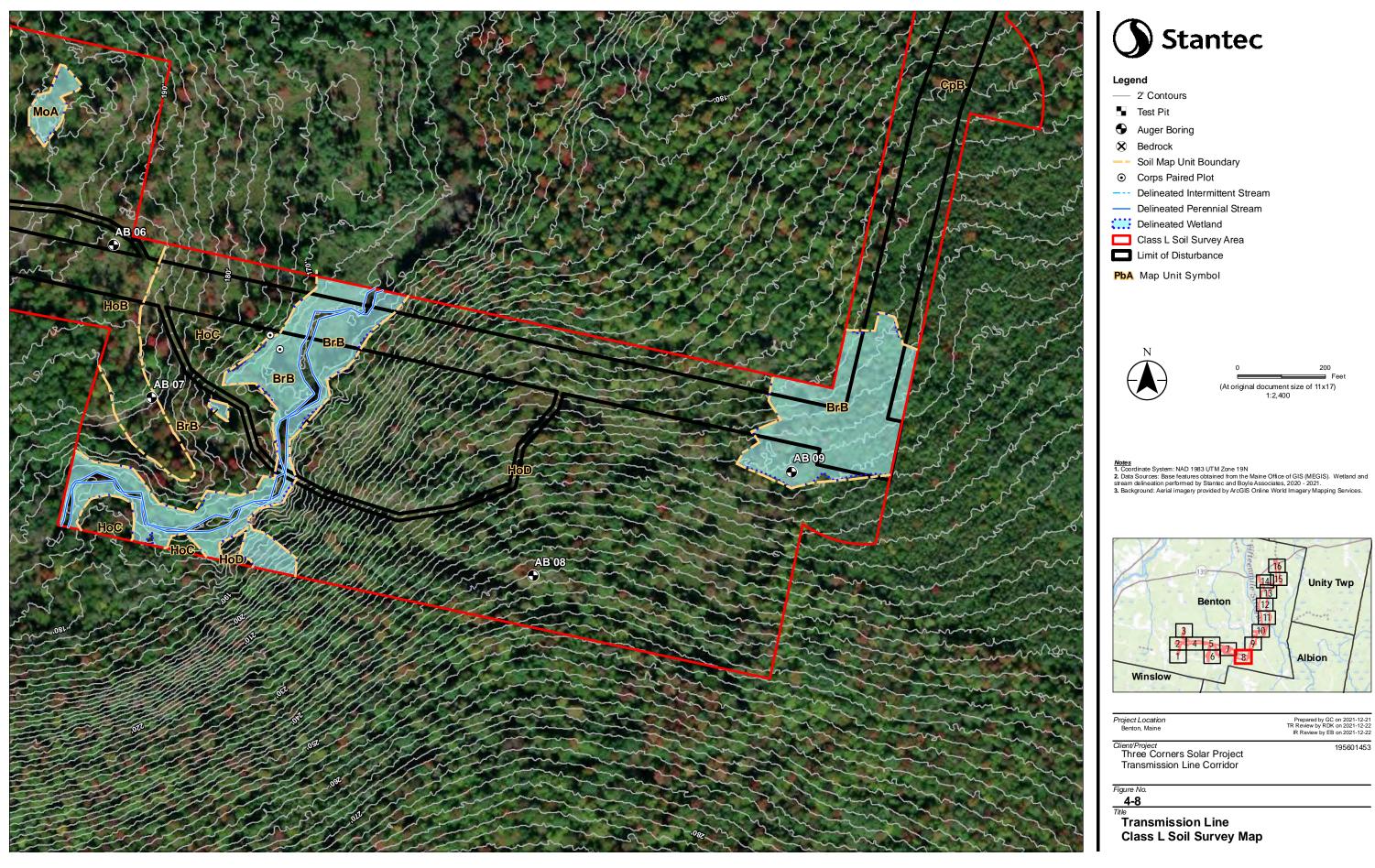
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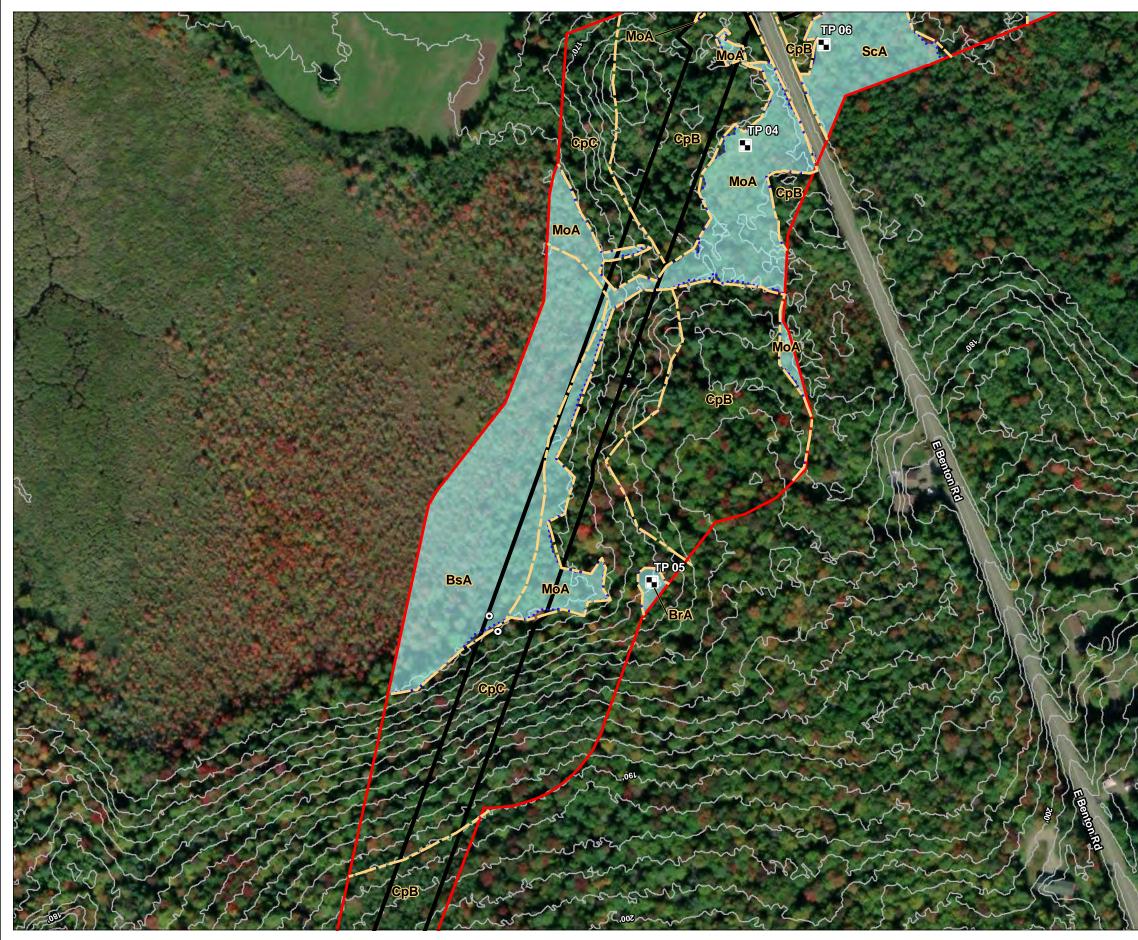
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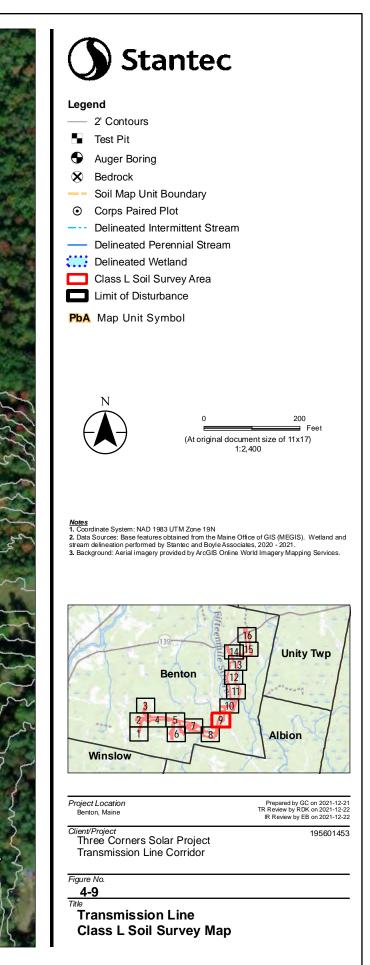
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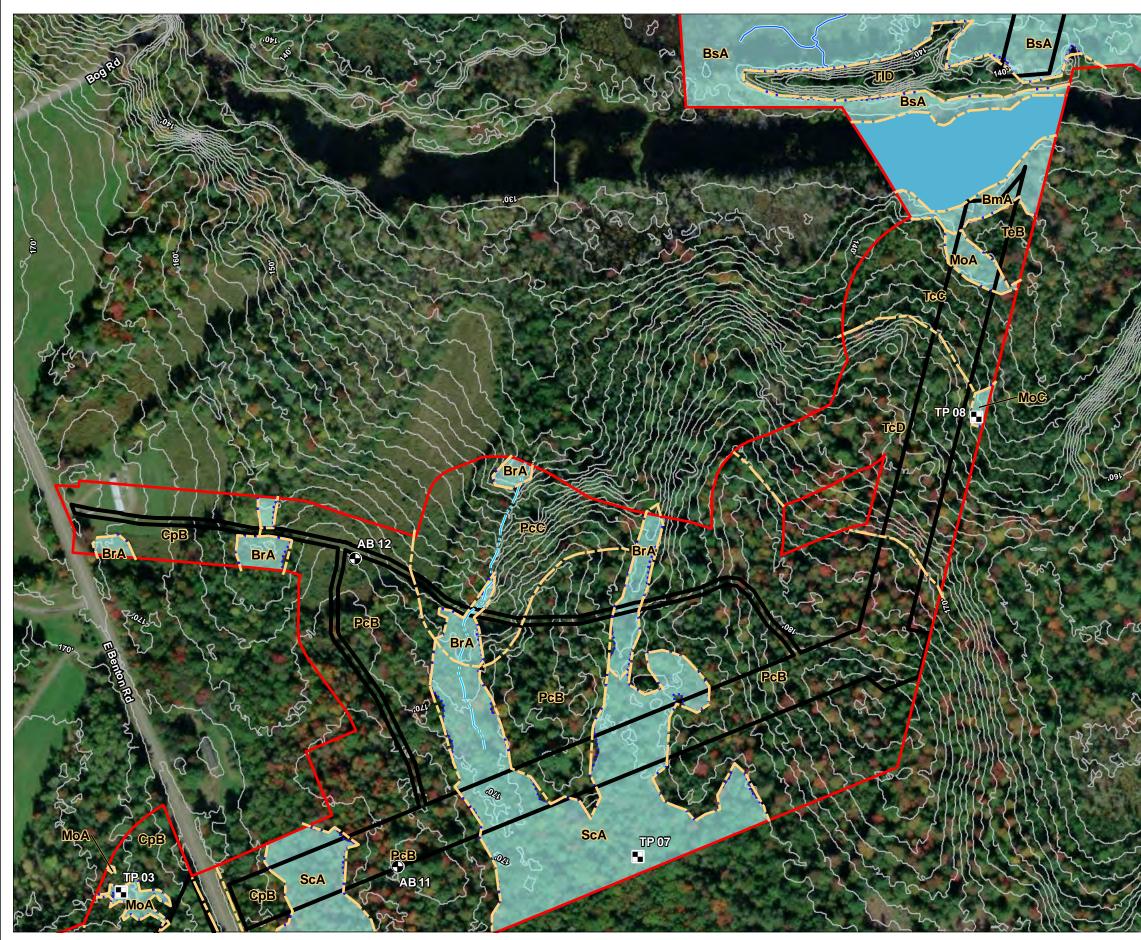


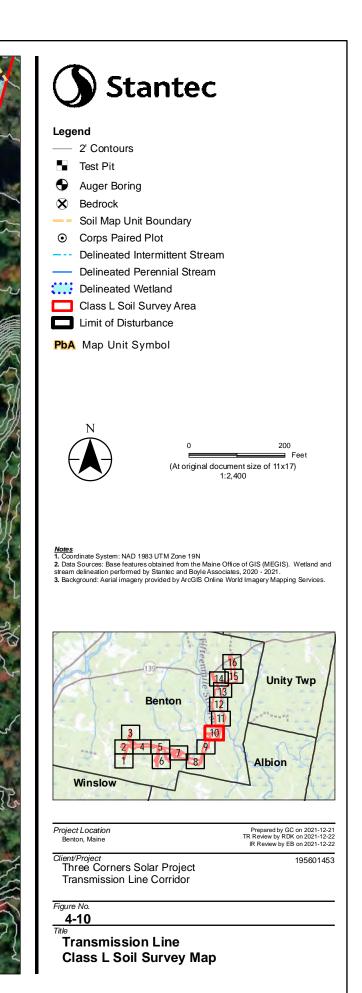


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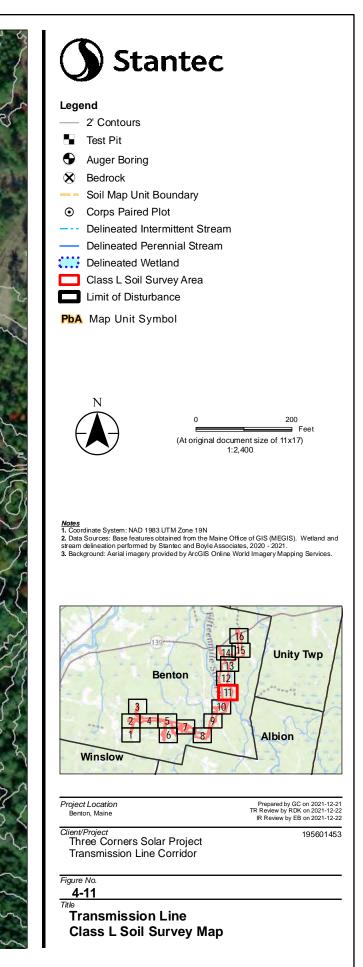


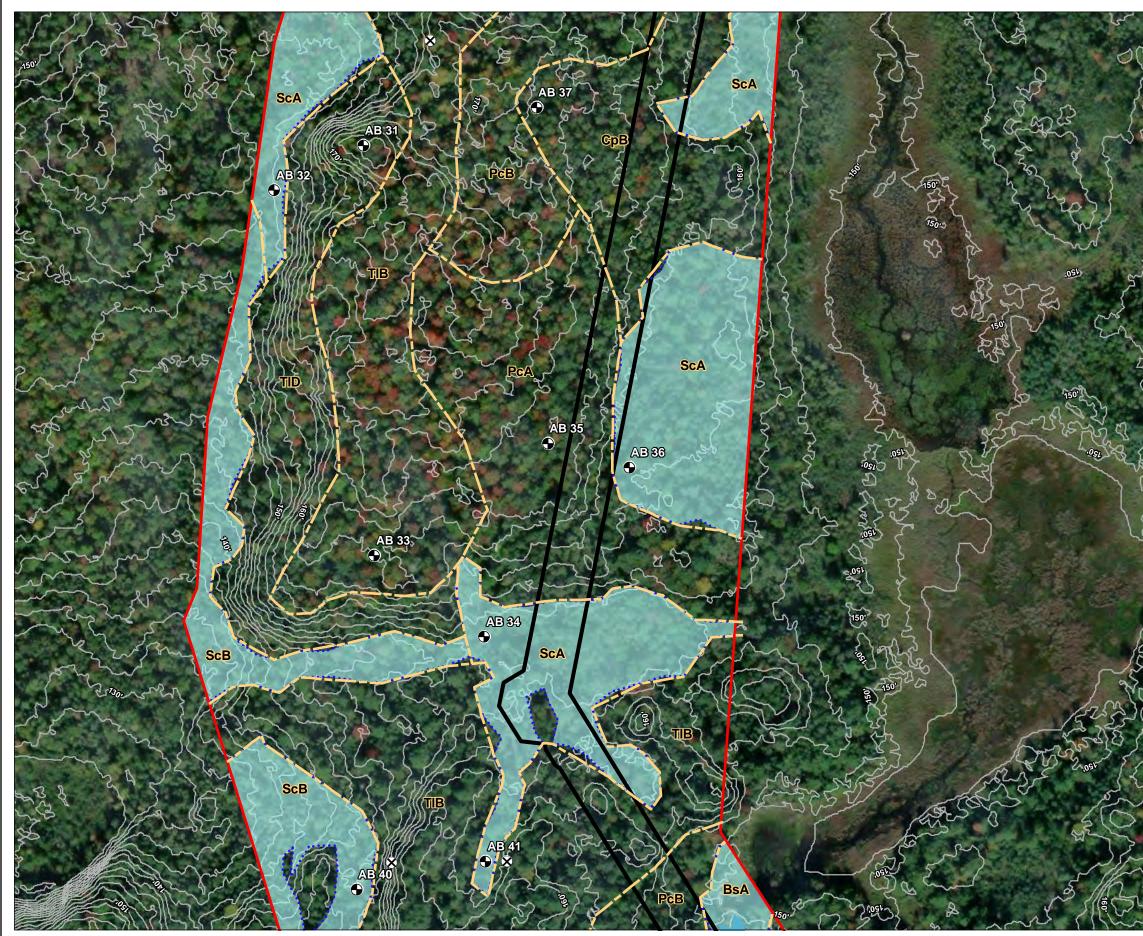


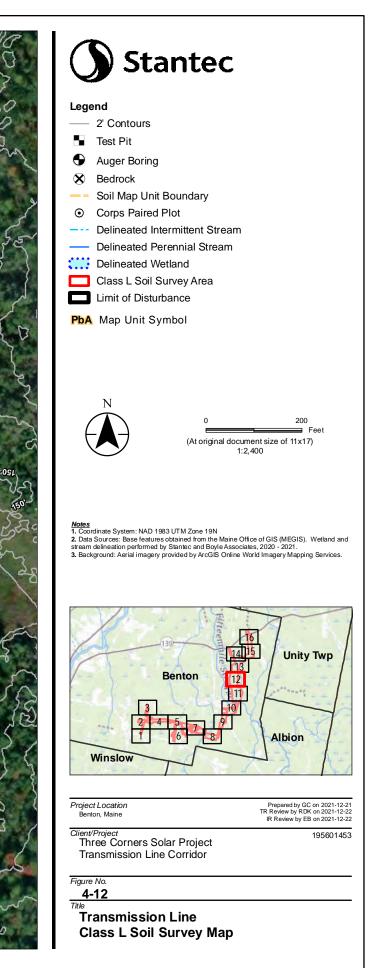


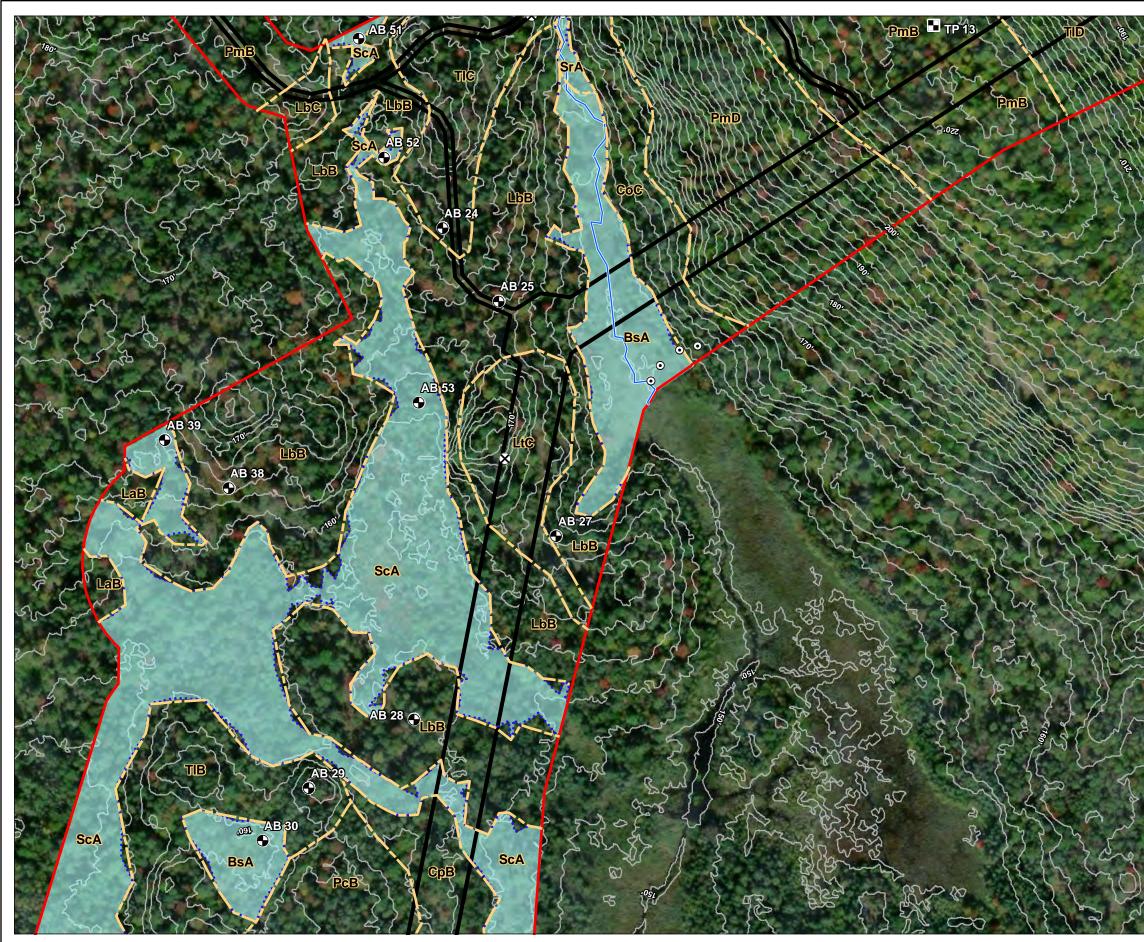


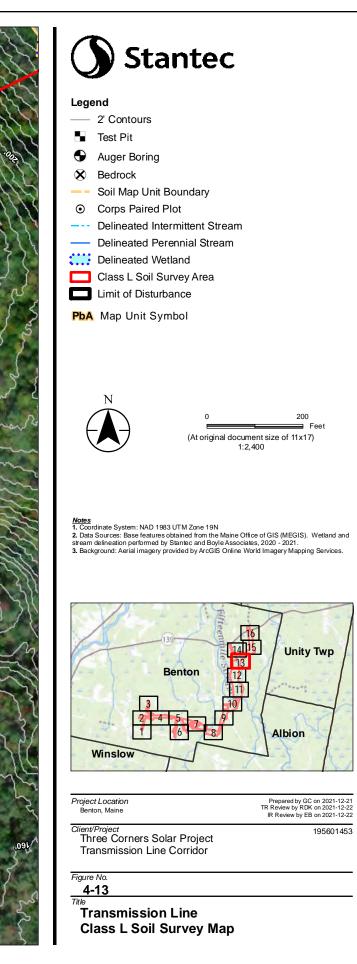


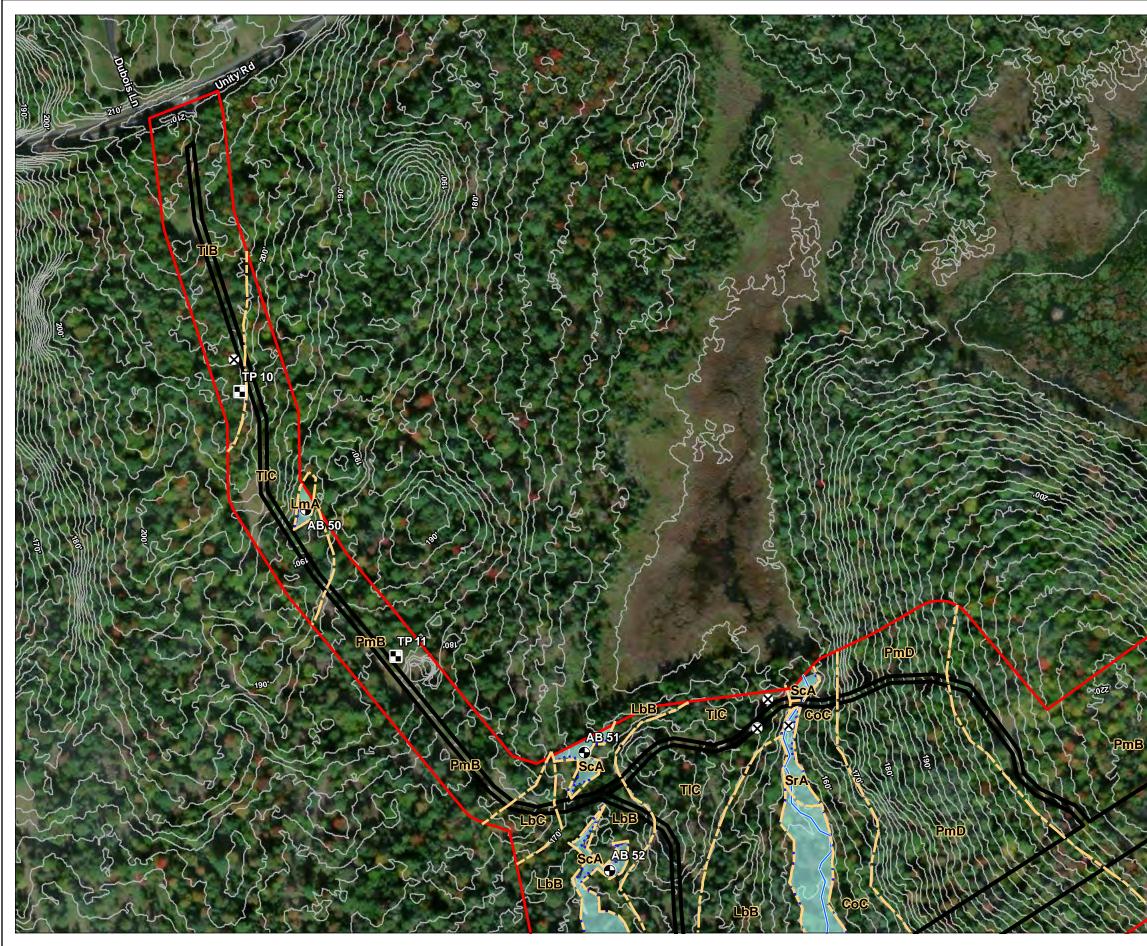


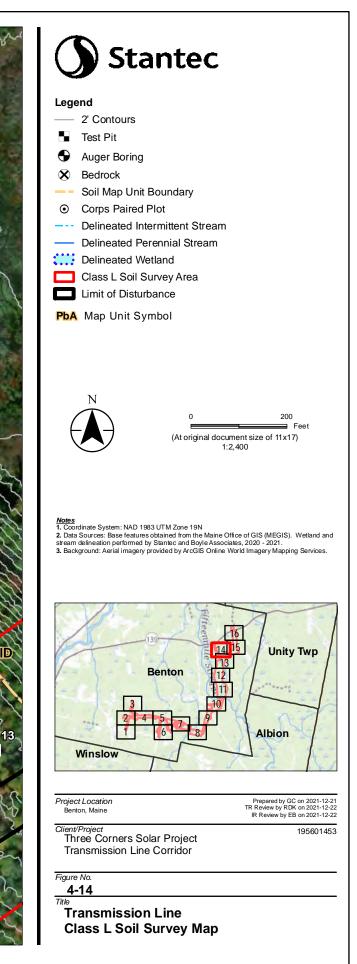


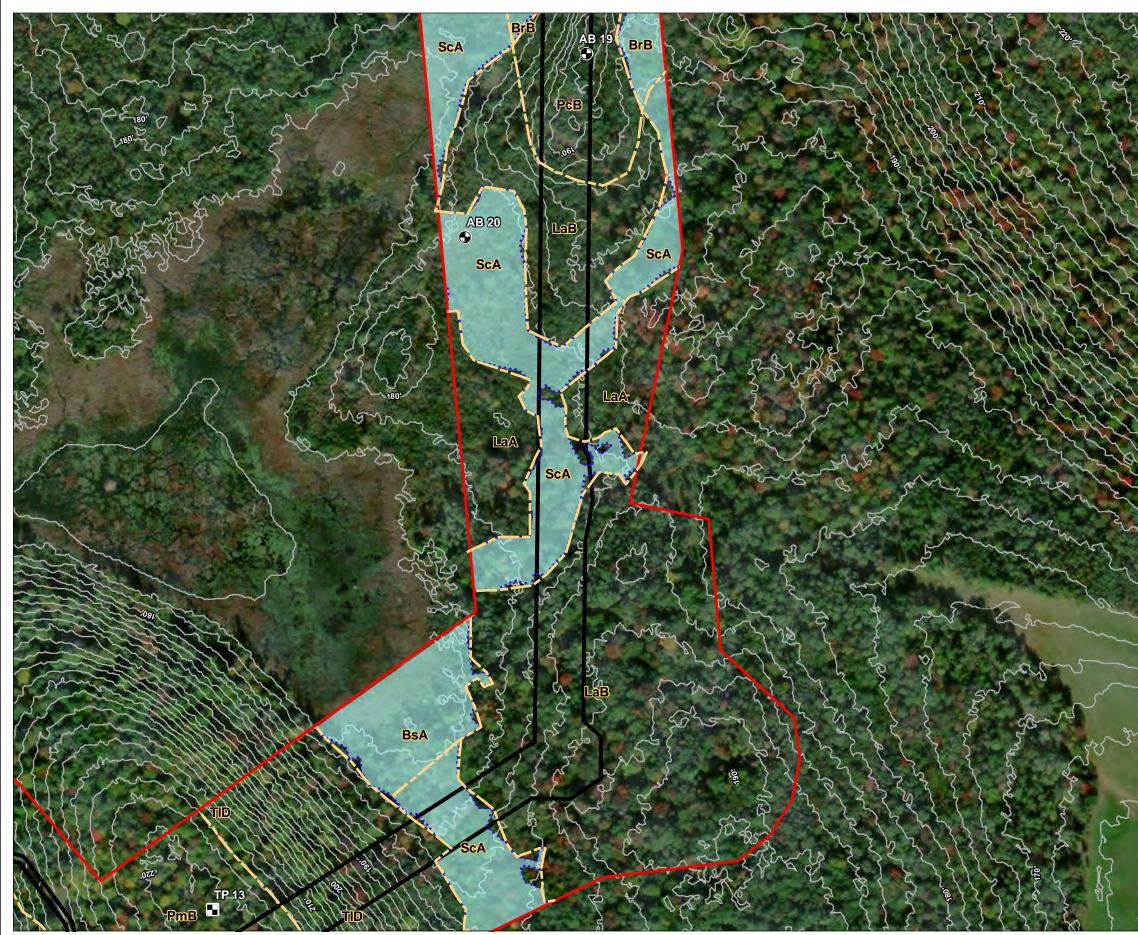
















Legend

- 2' Contours
- Test Pit
- Auger Boring
- 8 Bedrock
- --- Soil Map Unit Boundary
- Corps Paired Plot
- --- Delineated Intermittent Stream
- Delineated Perennial Stream
- Delineated Wetland
- Class L Soil Survey Area
- Limit of Disturbance

PbA Map Unit Symbol

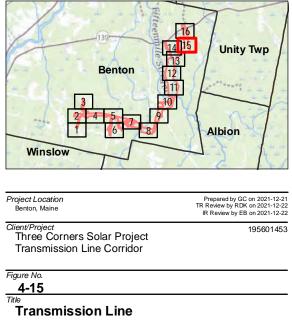


 Notes

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 3. Background: Aerial imagery provided by ArcGIS Online World Imagery Mapping Services.



Class L Soil Survey Map







Legend

- 2' Contours
- Test Pit
- Auger Boring
- 8 Bedrock
- --- Soil Map Unit Boundary
- Corps Paired Plot
- --- Delineated Intermittent Stream
- Delineated Perennial Stream
- Delineated Wetland
- Class L Soil Survey Area
- Limit of Disturbance
- PbA Map Unit Symbol

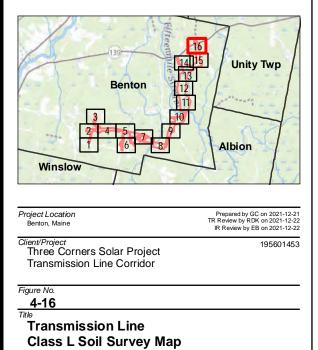


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SOIL SURVEY REPORT

December 23, 2021

APPENDICES

December 23, 2021

Appendix A FORM E: SOIL CONDITIONS SUMMARY TABLE

	ct Name: rners Solar	Projec	st	Applicant Name: 3 Corners, LLC		Project I Clinton	Location (mu & Unity Twp	nicipality): 5. – Project /	Array
	Exploration	a or	Description o	f subsurface materials by	: Depths f	0 (check one): 🕸 inches	cm	Ground
∟ot No.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	 Soil profil Soil serie 	e/condition (<i>if by S.E.</i>), s name (<i>if by C.S.S.</i>); or by unit (<i>if by C.G.</i>)	Mottling (seasonal watertable)	Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surface Slope (%)
	AB 100		Colonel vstsl	, st. surface	9	N.O.	16	16	3-8
	AB 101		Brayton vstfs	I, st. surface	7	N.O.	10	13	0-3
	AB 102		Brayton vstfs	l, st. surface	7	N.O.	10	13	0-3
	AB 103		Brayton vstsl		7	N.O.	11	40	0-3
	AB 104		Telos grvfsl	_	18	N.O.	22	23	3-8
	AB 105		Monarda vsts	sil	4	N.O.	10	12	0-3
	AB 106		Lyman grfsl		N.O.	16	N.O.	16	3-8
	AB 107		Tunbridge vs	tfsl	N.O.	31	N.O.	31	3-8
	AB 108		Tunbridge vg	rsil, mod. well dr.	N.O.	17	N.O.	28	3-8
	AB 109		Tunbridge vfs	3	N.O.	31	N.O.	31	8-15
	AB 110		Brayton stfsl		0	N.O.	16	16	0-3
	AB 111		Colonel grfsl		12	N.O.	14	23	3-8
	AB 112		Colonel fsl		14	N.O.	14	20	3-8
	AB 113		Tunbridge fsl		N.O.	22	N.O.	22	0-3
	AB 114		Peru fsl		N.O.	N.O.	20	23	0-3
	AB 115		Peru stfsl		N.O.	N.O.	24	40	3-8
	AB 116		Colonel vstfsl		9	N.O.	12	16	3-8
	AB 117		Peru vstsl, st.	surface	24	N.O.	36	48	3-8
	AB 118		Colonel stfsl,	st. surface	15	N.O.	17	20	3-8
	AB 119		Monarda vsts	il, st. surface	4	N.O.	20	20	0-3
	AB 120		Peru sl, st. su	irface	N.O.	N.O.	20	26	0-3
	AB 121		Tunbridge grf	sl	N.O.	24	N.O.	24	3-8
	AB 122		Brayton stfsl,	st. surface	7	N.O.	16	16	3-8
	AB 123		Peru stfsl		N.O.	N.O.	24	48	3-8
	AB 124		Peru fsl		N.O.	N.O.	18	25	3-8
	AB 125		Peru grsl		N.O.	N.O.	24	32	3-8
	AB 126		Peru cobsl		N.O.	N.O.	32	48	3-8
	AB 127		Brayton stsl		7	N.O.	22	60	0-3
	AB 128		Monarda vsts	il	3	N.O.	12	20	0-3
	AB 129		Monarda stsil		5	N.O.	12	····'2001	10-3
	AB 130		Colonel stfsl		10	N.O.	15	1F120	Gig
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SOIL CONDITIONS SUMMARY TABLE

FORM E 2/02

SUMMARY LOG OF SUBSURFACE

EXPLORATIONS AT PROJECT SITES

		COND	ITIONS SUMMARY TABLE		EXPLOR	RY LOG OF S	ROJECT SITE	S
Proje 3 Co	ct Name: rners Solar	r Projec	et Applicant Name: 3 Corners, LLC	(*)):::::::::::::::::::::::::::::::::::		Location (mu & Unity Twj		Array
	Exploration	I or	Description of subsurface materials	by: Dept	hs to (check on	e): I inches	s 🗆 cm	Ground
Lot No.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	 Soil profile/condition (<i>if by S.E.</i>), Soil series name (<i>if by C.S.S.</i>), or b Geologic unit (<i>if by C.G.</i>) 	Mottling	al Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surface Slope (%)
	AB 131		Peru stsl, st. surface	22	N.O.	24	24	3-8
	AB 132		Peru stsl, st. surface	18	N.O.	20	23	3-8
	AB 133		Scantic sici	0	N.O.	9	15	0-3
	AB 134		Colonel vstl	8	N.O.	12	15	3-8
	AB 135		Colonel vstl	13	N.O.	20	20	3-8
	AB 136		Peru vstl	17	N.O.	18	20	3-8
	AB 137		Scantic sicl	0	N.O.	6	18	0-3
	AB 138		Colonel stl	15	N.O.	18	23	3-8
	AB 139		Swanville sil/vfsl	0	N.O.	14	22	0-3
_	AB 140		Colonel stsl	13	N.O.	17	19	3-8
	AB 141		Peru grsl	18	N.O.	18	20	3-8
1	AB 142		Peacham sl	0	N.O.	18	21	0-3
	AB 143		Peru grsl	18	N.O.	18	21	3-8
	AB 144		Colonel vstsl	12	N.O.	14	20	3-8
	AB 200		Chesuncook fsl	18	N.O.	18	20	3-8
	AB 201		Chesuncook fsl	18	N.O.	18	20	3-8
tern synthesis	AB 202		Chesuncook fsl	18	N.O.	18	20	3-8
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		COND	ITIONS SUMMARY TABLE			the second s	UBSURFACE	5
	ct Name: rners Solar	r Proje	ct Applicant Name: 3 Corners, LLC			Location (mu & Unity Twi	nicipality): b. – Project /	Array
	Exploration	🗐 or	Description of subsurface materials b	y; Depths t	to (check one	e): 🛛 🕸 inches	s 🗆 cm	Ground
Lot No.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	 Soil profile/condition (if by S.E.), Soil series name (if by C.S.S.), or by Geologic unit (if by C.G.) 	Mottling (seasonal watertable)	Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surfac Slope (%)
	TP 100		Peru stfsl, vst. surface	N.O.	N.O.	19	25	3-8
	TP 101		Peru vstfsl, vst. surface	N.O.	N.O.	25	34	3-8
	TP 102		Peru stfsl, vst. surface	N.O.	N.O.	24	26	3-8
	TP 103		Colonel grsl, vst. surface	15	N.O.	19	24	3-8
	TP 104		Peru stfsl, st. surface	18	N.O.	25	26	8-15
	TP 105		Peru stfsl	N.O.	N.O.	21	26	3-8
	TP 106		Peru vstfsl	16	N.O.	16	24	3-8
	TP 107		Colonel vstsl, vst. surface	11	N.O.	7	16	8-15
	TP 108		Peru stfsl	N.O.	N.O.	15	24	3-8
	TP 109		Telos grsil	15	N.O.	25	25	3-8
	TP 110		Peru vstfsl, st. surface	17	N.O.	22	22	8-15
0.0	TP 111		Tunbridge grsl	N.O.	31	N.O.	31	3-8
	TP 112		Tunbridge grsl	N.O.	25	N.O.	25	3-8
	TP 113		Monarda stfsl, st. surface	6	N.O.	21	48	0-3
	TP 114		Peru grfsl	18	N.O.	18	34	3-8
	TP 115		Colonel grfsl	15	N.O.	15	30	3-8
	TP 116		Tunbridge grsl, mod. well dr.	N.O.	23	12	23	0-3
	TP 117		Tunbridge grsl	N.O.	27	N.O.	27	3-8
	TP 118		Tunbridge vgrsl	N.O.	41	N.O.	41	8-15
	TP 119		Tunbridge vgrsl	N.O.	31	N.O.	31	3-8
F	TP 120		Peru grfsl, vst. surface	N.O.	N.O.	29	29	3-8
u en	TP 121		Tunbridge sl, mod. well dr.	18	30	26	30	0-3
	TP 122		Colonel vgrfsl	15	N.O.	23	27	0-3
	TP 123		Peru grfsl	24	N.O.	24	33	3-8
	TP 124	AU-14-12-14-00-	Monarda sil	6	N.O.	6	29	0-3
	TP 125		Colonel vgrfsl	14	N.O.	14	26	0-3
-	TP 126		Peru grsl,	18	N.O.	18	24	3-8
	TP 127		Peru stsl	N.O.	N.O.	30	34	3-8
	TP 128		Peru vstsl	N.O.	N.O.	18	11122111	, 3-8
	TP 129		Marlow stfsl, vst. surface	N.O.	N.O.	NO	ED SOUL SO	12348
	TP 130		Peru exgrfsl, st surface	23	N.O.	28	Rodney D.	3-8
		INVES	STIGATOR INFORMATION AND SIGN	ATURE			Kelshaw	14
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PAGE 3 OF 8

FORM E 2/02

	ct Name: rners Solar		App	ARY TABLE icant Name: orners, LLC		Project L Clinton,	ocation (mu	Jnity Twp	
	Exploration	I or	Description of sub	surface materials by:	Depths t	0 (check one): 🏾 🗄 inches	a □ cm	Ground
ot D.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	Soil profile/cond	dition (if by S.E.), e (if by C.S.S.), or by	Mottling (seasonal watertable)	Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surface Slope (%)
	TP 131		Monarda sil		0	N.O.	13	24	0-3
	TP 132		Colton Is		N.O.	N.O.	N.O.	68	3-8
	TP 133		Monarda sil		4	N.O.	11	34	0-4
	TP 134		Tunbridge vgrfsl		N.O.	32	N.O.	32	3-8
	TP 135		Tunbridge fsl		N.O.	29	N.O.	29	3-8
	TP 136		Marlow vgrsl		N.O.	N.O.	39	40	0-3
	TP 137		Colonel fsl		12	N.O.	18	25	3-8
	TP 138		Tunbridge fsl	**************************************	N.O.	30	N.O.	30	0-3
	TP 139		Lyman fsl		N.O.	19	N.O.	19	0-3
	TP 140		Brayton sl		0	N.O.	14	37	0-3
	TP 141		Peru fsl		N.O.	N.O.	18	25	3-8
	TP 142		Peru fsl		24	N.O.	24	32	3-8
	TP 143		Peru fsl		17	N.O.	17	30	3-8
	TP 144		Brayton vstsl, st. s	urface	0	N.O.	16	25	0-3
	TP 145		Telos vgrfsl, st sur	face	13	N.O.	13	20	3-8
	TP 146		Peru stfsl, st. surfa	ice	N.O.	N.O.	30	32	3-8
	TP 147		Brayton vstsl, st. s	urface	0	N.O.	10	24	0-3
	TP 148		Colonel fsl		15	N.O.	15	30	3-8
	TP 149		Colonel vstsl		16	N.O.	16	30	3-8
	TP 150		Peru stsl, st. surfa	ce	26	N.O.	26	72	3-8
	TP 151		Burnham vst muck	<	0	N.O.	18	22	0-3
	TP 152		Peru sl, st. surface)	17	N.O.	20	32	0-3
	TP 153		Chesuncook stsil		17	N.O.	20	32	3-8
	TP 154		Colonel I		14	N.O.	21	29	0-3
	TP 155		Peru cobsl		23	N.O.	23	30	3-8
	TP 156		Brayton vstsl		0	N.O.	10	20	0-3
	TP 157		Scantic sil		0	N.O.	12	24	0-3
	TP 158		Colton Is		N.O.	N.O.	N.O.	111701111	1,0-3
	TP 159		Tunbridge vgrsil		N.O.	28		ED 281L SC	2/8-15
	TP 160		Tunbridge vgrl		N.O.	38	N.O.	38 Rodney D	8-15
	TP 161		Peru grl		24	N.O.	420	Reaney	
	ure:	n	ney Kelshaw	Ē	Date: 2020-		*	\$\$552	AINE
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FORM E 2/02

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		COND	ITIONS SU	MMARY TABLE			RY LOG OF S		
Proje 3 Co	ect Name: prners Sola	r Projec	t	Applicant Name: 3 Corners, LLC		Clinton	Location (mu , Benton & l Substation	Jnity Twp	Project
	Exploration	I or	Description (of subsurface materials	by: Dept	ns to (check on	e): 🎍 inches	s 🗆 cm	0.00
Lot No.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	 Soil profi Soil serie 	le/condition (if by S.E.), as name (if by C.S.S.), or b unit (if by C.G.)	Mottling	a/ Bedrock	Firm or Restrictive Layer	Limit of Exploration	Ground Surface Slope (%)
	TP 162		Peru grfsl		22	N.O.	39	39	3-8
	TP 200		Telos vfsl		17	N.O.	17	26	3-8
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							and a start	NU SOUTH	
							THEDS		11
							BOC KE	Iney D.	1
Signat	ure:	ANVES	TIGATOR INF	ORMATION AND SIGN	Date:	20-10-21		SS552	****
	Printed/typec	Rod	ney Kelsh	aw	Cert/Lic/Reg	# LSS 552	STATE	OF MAIN	1
itle:		ensed Sil rtified Ge	e Evaluator eologist	⊗ License □ Other:	d Soil Scientis	t	^/ATE	THULL'S	Juni

DEP Form E Rev. 9/01

Proie	SOIL (ct Name:	COND	Applicant Name:		EXPLORA		UBSURFACE ROJECT SITE	
	rners Solar	Projec	at 3 Corners, LLC			– T-line	molpanty).	
	Exploration	I or	Description of subsurface materials b	y: Depths i	0 (check one): 🕂 inche	s 🗆 cm	Groun
∟ot No.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	 Soil profile/condition (<i>if by S.E.</i>), Soil series name (<i>if by C.S.S.</i>), or by Geologic unit (<i>if by C.G.</i>) 	Mottling	Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surfac Slope (%)
	AB 01		Tunbridge I, swpdr	15	22	N.O.	22	8-15
	AB 02		Sunapee stsl	N.O.	N.O.	N.O.	48	0-3
	AB 03		Tunbridge stsl, deep	N.O.	42	N.O.	42	3-8
	AB 04		Howland exstsil	18	N.O.	28	28	3-8
	AB 05		Lyman stl	N.O.	12	N.O.	12	8-15
	AB 06		Howland vstsil	18	N.O.	28	28	3-8
	AB 07		Tunbridge cobfsl	N.O.	24	N.O.	24	3-8
	AB 08		Howland vstsil, swpdr	15	N.O.	18	22	15-3
	AB 09		Brayton vstfsl	0	N.O.	12	12	0-3
	AB 10		Peru vgrsl	17	N.O.	24	24	0-3
	AB 11		Peru sl	18	N.O.	20	20	3-8
	AB 12		Lyman stl	N.O.	14	N.O.	14	3-8
	AB 13		Peru grsl	N.O.	N.O.	19	19	8-15
	AB 14		Scantic sicl	0	N.O.	9	16	0-3
	AB 15		Lamoine sil	9	N.O.	9	12	3-8
	AB 16		Lamoine stsil	12	N.O.	12	19	3-8
	AB 17		Peru stfsl	22	N.O.	24	24	8-15
	AB 18		Brayton stsl	4	N.O.	9	12	3-8
	AB 19		Peru vgrsl	25	N.O.	26	26	3-8
	AB 20	_	Scantic sicl	0	N.O.	8	16	3-8
	AB 21		Brayton stsl	4	N.O.	9	12	3-8
	AB 22		Colonel stsl	15	N.O.	16	19	3-8
	AB 23		Peru vgrsl	N.O.	N.O.	16	16	3-8
	AB 24		Tunbridge stsl	N.O.	36	N.O.	36	3-8
	AB 25		Lamoine sil	12	N.O.	12	18	3-8
	AB 26		Lyman stfsl	N.O.	19	N.O.	19	8-15
	AB 27		Lamoine sil	7	N.O.	12	12	3-8
	AB 28		Lamoine sil	9	N.O.	12,,,,1	1111/2/1	3-8
	AB 29		Tunbridge stfsl	N.O.	31	NQ	OIL SPUER	1,3-8
	AB 30		Biddeford muck	0	N.O.	18	ange2B.	£ 0-3
	AB 31		Tunbridge stsl	N.O.	27	N.O.	elshaw	15-3
gnati ime l	F	-v	TIGATOR INFORMATION AND SIGN New Kelshaw	Date: 2020-		STAT	SS552	Wasserer .
le:	🕸 Lice		te Evaluator & Licensed	Cert/Lic/Reg. # Soil Scientist	LSS 552	affi	x profession	al seat

		COND	ITIONS SUMMARY TABLE		SUMMA	RY LOG OF S	UBSURFACE	RM E 2/(: : S
Proje 3 Cc	ect Name: orners Sola	r Projec	ct Applicant Name: 3 Corners, LLC		Project Benton	Location (mu - T-line	inicipality):	
	Exploration	I or	Description of subsurface materials b	y: Depths	to (check one	e): 🕸 inches	s 🗆 cm	Groun
Lot No.	Symbol (TP 1, B 2, etc.)	if at SSWD Field	 Soil profile/condition (if by S.E.), Soil series name (if by C.S.S.), or by Geologic unit (if by C.G.) 	Mottling (seasonal watertable)	Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surfac Slope (%)
	AB 32		Scantic sil	0	N.O.	5	12	0-3
	AB 33		Tunbridge vstfsl	N.O.	21	N.O.	21	8-15
	AB 34		Scantic sil	0	N.O.	9	12	0-3
	AB 35		Peru vstfsl	26	N.O.	28	30	3-8
	AB 36		Scantic sil	0	N.O.	5	16	0-3
	AB 37		Buxton stsil	18	N.O.	18	20	3-8
	AB 38		Tunbridge vstl	N.O.	29	N.O.	29	8-15
1.511-025	AB 39		Scantic sil	2	N.O.	8	12	0-3
	AB 40		Scantic sil	0	N.O.	7	12	0-3
	AB 41		Scantic sil	0	N.O.	9	30	0-3
	AB 42		Scantic sil	2	N.O.	9	24	0-3
	AB 43		Lamoine sil	12	N.O.	13	24	3-8
	AB 44		Tunbridge vgrsl	N.O.	23	N.O.	23	3-8
	AB 45		Brayton vstsl	0	N.O.	13	13	0-3
	AB 46		Brayton vstsl	0	N.O.	12	12	0-3
	AB 47		Peacham muck	0	N.O.	24	24	0-3
	AB 48		Lyme sl	0	N.O.	N.O.	16	0-3
	AB 49		Peacham muck	0	N.O.	40	40	0-3
	AB 50		Lyme chsl	0	14	N.O.	14	0-3
	AB 51		Scantic sil	0	N.O.	12	15	0-3
	AB 52		Scantic sil	0	N.O.	9	14	0-3
	AB 53		Scantic sil	0	N.O.	22	32	0-3
	AB 54		Brayton si	0	N.O.	11	14	0-3
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						EL .	Rodney Di	155=
						100	Kelshaw	
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le:		ensed Sit tified Ge		Soil Scientist			v profession	

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FORM E 2/02

PAGE<u>8</u>OF<u>8</u>

Title:

✤ Licensed Site Evaluator

□ Certified Geologist

Proi	ect Name:		Applicant Name:	and the second second	EXPLORA	TIONS AT PI	UBSURFACE	S
	orners Solar	r Proje	ct 3 Corners, LLC		Benton	ocation (mu – T-line	inicipality):	
	Exploration Symbol	or 🛙	Description of subsurface materials		to (check one,): 🔮 inche	s 🗆 cm	Groun
Lot No.	(TP 1, B 2, etc.)	if at SSWD Field	 Soil profile/condition (if by S.E.), Soil series name (if by C.S.S.), or b Geologic unit (if by C.G.) 	Mottling (seasonal watertable)	Bedrock	Firm or Restrictive Layer	Limit of Exploration	Surfac Slope (%)
	01rke-u		Peru stsl	18	N.O.	18	20	8-15
	01rke-pfo		Brayton vstsl	0	N.O.	14	14	0-3
	01rke-pem		Brayton vstsl	0	N.O.	14	14	0-3
	01rkg-u		Tunbridge sl	N.O.	30	N.O.	30	8-15
	01rkg-w		Lyme Icos, mod. deep	0	30	24	30	0-3
	01cfk-u		Peru si	N.O.	N.O.	20	20	8-15
	01cfk-w		Brayton sl	4	N.O.	12	20	3-8
	01rkl-u		Colonel vstsl	7	N.O.	12	12	8-15
	01rkl-w		Scantic sil	0	N.O.	8	20	0-3
	01rkr-u		Scantic sil, shallow	7	14	14	14	8-15
	01rkr-pss		Scantic sicl	0	N.O.	3	15	0-3
	01rkr-pem		Scantic sicl	0	N.O.	14	20	0-3
	01rkz-u		Colonel vstsl	10	N.O.	10	12	8-15
	01rkz-pem		Scantic sicl	0	N.O.	3	15	0-3
	01rkz-pss		Scantic sicl	0	N.O.	3	15	0-3
	01rkz-pfo		Scantic sicl	3	N.O.	3	12	0-3
	02cfg-u		Colonel vstsl	12	N.O.	12	12	3-8
	02cfg-w		Brayton sl	0	N.O.	12	20	3-8
	TP 01		Colonel vstsl	11	N.O.	14	15	3-8
	TP 02		Sunapee stsl	N.O.	N.O.	20	20	0-3
	TP 03		Monarda vstsil	0	N.O.	16	19	0-3
	TP 04		Monarda vstsil	0	N.O.	16	19	0-3
	TP 05		Monarda vstsil	0	N.O.	9	13	0-3
	TP 06		Scantic sicl	6	N.O.	10	10	0-3
	TP 07		Burnham mucky sil	0	N.O.	22	24	0-3
	TP 08		Monarda vstsil	3	N.O.	6	15	8-15
	TP 09		Scantic sicl	6	N.O.	10	10	0-3
	TP 10		Lyman stl	N.O.	13	N.O	SOIL S	13-8
	TP 11		Marlow vstsl	N.O.	N.O.	11	18 36	318
	TP 12		Vonarda sil	0	N.O.	8 4	Rodney D	
	TP 13	1	Peru grfsl	22	N.O.	30	Selshaw	
		INVES	TIGATOR INFORMATION AND SIGN		No. C. Mark	EX.	SS552	1*
nat	ure:	K	2	Date: 2020.	10-21	S III	1	NE S
ne	Printed/typed:	Rodi	ney Kelshaw	Cert/Lic/Reg. #		111	ATE OF M	All In
э:	T Lino	nand Old	e Evaluator e Licenser	Soil Scientist	200 002			

□ Other:

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Appendix B FORM F: TEST PIT/AUGER BORING LOGS

	<u> 1</u> of <u>2</u>	WART SHE SHARE			TION	V -	DETAILED DI	ESCRIPTION OF	-
MALLET.	Name:	/ CLASSI		IINFORMA	TION		FACE CONDIT	n (municipality)	ECT SITES
Co	RNERS SKA	AR PROJECT	3	CORNERS,	LLC		SENTON -		
				□ Boring			I: TPO2		□ Boring
		n thickness						Ground surface e	
		Consistency	Color	Mottling	- <u>-</u>	Texture	Consistency	Color	Mottling
0	Texture	Fibric	51(22.5)2	wouning	0		fibric	7.5482.5/2	Motung
	Committee Printers and and and	FIDULE	7.5425/2	NONE		Peat	+1001C		•
6	vstsl	VER		OBSFRACD	es)			7.548512	OBSERVED
12 18 24 30 36 42			2.5853		u u u u	stsl	VFR	7.542444	
	stsl	FR	5123	her Sil	Depth below mineral soil surface (inches) 8 8 7 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
18					¹⁸	stcost	TER	1042414	
	LOI	15"	DENSE	Till	oils	picosa		1916 11-1	
24	FV+		DENK	TILL	os 24	1	20"	5.0.00	
30					Jine 30	LOI	20	FIRM	1
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36					plad 36				
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42					۵ ⁴²				
48					48	· · · · · · · · · · · · · · · · · · ·			()))))))))))))))))))))))))))))))))))))
data v	Soil Class	sification Slope	Limiting Factor	Groundwater GRestrictive Layer	soil data by	Soil Class	ification Slope	Limiting Factor	Groundwater Restrictive Layer
. ##		ndition Percent	Depth	Bedrock	S.E. »		idition Percent	Depth	Bedrock
data Y	Soil series/phas	1.0	Hydric		soil data by	Soil series/phas		Hydric	
	LOLONEL	. VSTER	2 Non-hydric	Soil Group	S.S.₩	SUNAPER	2	Dr Non-hydric	Soil Group
plor									
	ation Symbo		🛛 Test Pit	□ Boring	Explora	ation Symbo		🛛 Test Pit	Boring
<u>)</u> "	Organic horizo		☑ Test Pit Ground surface (-	ation Symbo Organic horizoi		☑ Test Pit Ground surface e	
	25.				"				
<u>، خ</u>	Organic horizo	n thickness G	Ground surface	elev. <u>170</u> Mottling	-	Organic horizo	n thickness	Ground surface e	Nottling
	Organic horizo	n thickness G	Ground surface (Color	elev. <u>170</u>	, 0 0 6	Organic horizo	n thickness	Ground surface e	lev. 172
0 6	Organic horizo	n thickness G	Ground surface (Color	NONE	, 0 0 6	Organic horizo	n thickness	Ground surface e	lev. <u>172</u> Mottling NoN∉
0	Organic horizo Texture	n thickness G	Ground surface (Color	NONE	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	lev. <u>172</u> Mottling NoN∉
0 6	Organic horizo Texture	n thickness G	Ground surface of Color	NONE NONE OBSERVED	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	iev. <u>172</u> Mottling No.NR OBSERVED
0 6 12	Organic horizo Texture	n thickness G	Color LotRZ/1 Z-SYS/2	NONE	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	None Northing None Observed
0 6 12	Organic horizo Texture	n thickness G	Color LotRZ/1 Z-SYS/2	NONE NONE OBSERVED	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	Nonr Notling Nonr Observed
0 6 12 18 ⁼ 24	Organic horizo Texture	n thickness G	Color Color 10122]1 2.515/2 545/3	NONE NONE OBSERVED	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	Nonr Notling Nonr Observed
0 6 12 18 ⁼	Organic horizo Texture	n thickness G	Color LotRZ/1 Z-SYS/2	NONE NONE OBSERVED	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	None Northing None Observed
0 6 12 18 ⁼ 24	Organic horizo Texture	n thickness G	Color Color 10122]1 2.515/2 545/3	NONE NONE OBSERVED	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	None None Observed
0 6 12 18 ⁻ 24 30	Organic horizo Texture	n thickness G	Color Color 10122]1 2.515/2 545/3	NONE NONE OBSERVED	0 6 12	Organic horizon Texture	n thickness C	Ground surface e	None Northing None Observed
0 6 12 18 ⁻ 24 30	Organic horizo Texture	n thickness G	Color Color 10122]1 2.515/2 545/3	NONE NONE OBSERVED	low mineral soil surface (inches)	Organic horizon Texture	n thickness C	Ground surface e	None Northing None Observed
0 6 12 18 ⁼ 24 30 36 42	Organic horizo Texture	n thickness G	Color Color 10122]1 2.515/2 545/3	NONE NONE OBSERVED	Depth below mineral soil surface (inches)	Organic horizon Texture	n thickness C	Ground surface e	None None Observed
0 6 12 18 ⁼ 24 30 36 42 48 data	Organic horizo Texture	n thickness G	Color Color 10122]1 2.515/2 545/3	elev. 170 Mottling NONE ORSEQUED hcr 15:1. hw 25:1. TILL	0 6 12 12 18 18 16 30 30 30 42 42 48 soil data	Organic horizon Texture VSHSA SHSA	n thickness C	Ground surface e	iev. <u>172</u> Mottling No.NE OBSERVED hcf 137 hcf 25%
0 6 12 18 24 30 36 42 48	Organic horizo Texture VStSil StSil Soli Class	n thickness G	Color Color IOYRZJI Z-5Y5/2 545/3 DENSE	elev. 170 Mottling NONE OBSERVED hcr 15:7. hcr 15:7. hcr 25:1 TTLL	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Organic horizon 'Texture VSTST Stark Soil Class Profile Cor	n thickness C Consistency FR FR FR FR FR FR FR FR FR FR FR FR FR	Color Color 10YR 2/1 2.5Y 5/2 5Y 5/3 Limiting Faptol	iev. 172 Mottling NoNE OBSERVED hcf 15:7 hcf 25%
0 6 12 18 ⁻ 24 30 36 42 48 data yy	Organic horizo Texture	n thickness G Consistency FR FR FI G G G G G G G G G G G G G G G G G G	Color Color 16122/1 Z-575/2 545/3 DENSE	elev. 170 Mottling NONE OBSERVED hcs 15/1. hus 25/1 TTLL	0 6 12 12 18 18 18 24 24 30 36 42 48 36 42 48 5. I data 5. I data 1. I data 5. I data 1. I data 5. I data 1. I data 5. I data 1. I data 5. I data 1. I data 5. I data 1. I data	Organic horizon 'Texture VSHSN Soli Class Profile Cor Soli series/phas	n thickness C Consistency FR FR FR FR FR FR FR FR FR FR FR FR FR	Color Color 10YR 2/1 2.5Y 5/2 5Y 5/3 Limiting Faptol	iev. 172 Mottling NoNE OBSERVED hcf 15:7 hcf 25%
0 6 12 18 24 30 36 42 42 48 data y y +	Organic horizo Texture VS+S11 S+S11 Soli Soli Class	n thickness G Consistency FR FR FI G G G G G G G G G G G G G G G G G G	Color Color IoX2Z/I Z-5Y5/2 5Y5/3 DENSE	elev. 170 Mottling NONE OBSERVED hcr 15:7. hcr 15:7. hcr 25:1 TTLL	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Organic horizon 'Texture VSTST Stark Soil Class Profile Cor	n thickness C Consistency FR FR FR FR FR FR FR FR FR FR FR FR FR	Color Color	iev. <u>172</u> Mottling NoNE OBSERVED hcf 157 hcf 25% hcf 25% Hcf 25% Hcf 25%
0 6 12 18 24 30 36 42 48 data	Organic horizo Texture VS+S11 S+S11 S+S11 Soll Class Profile Cor Soil series/phas MoNACDP	n thickness G Consistency FR FR FR FI Station Slope Dercent Se name: St Si &	Color Co	Betrictive Layer Bedrock	0 6 12 12 18 18 18 18 18 18 18 24 24 30 30 30 48 48 55 55. € 55. €	Organic horizon Texture VSTSA Stark Soil Class Profile Cor Soil series/phas MONARD	n thickness (Consistency FR FR FR FR FR FR FR FR FR FR FR FR FR	Color Color 1048.2/1 2.515/2 2.515/2 SYS/3 Limiting Reptol	iev. 172 Mottling NoNR OBSERVED hcf 15:1 hcf 25%
0 6 12 18 24 30 36 42 48 data yy 	Organic horizo Texture VS4511 S+S11 S+S11 Soli Class Profile Cor Soli series/phas MonACDP	n thickness G Consistency FR FR FR FI Station Slope Dercent Se name: St Si &	Color Co	elev. 170 Mottling NONE OBSERVED hcr 15:7. hcr 25:1. hcr	0 6 12 12 18 18 18 18 18 18 18 24 24 30 30 30 48 48 55 55. € 55. €	Organic horizon Texture VSTSA Stark Soil Class Profile Cor Soil series/phas MONARD	n thickness (Consistency FR FR FR FR FR FR FR FR FR FR FR FR FR	Color Color 1048.2/1 2.515/2 2.515/2 SYS/3 Limiting Reptol	iev. <u>172</u> Mottling NoNR OBSERVED hcf 15:1 hcf 25:1 hcf 2
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		3		Soll Group		URE			R Non-hyprich	anaistii Group
S.S. W		3				URE			* SS	552
Signatu	ire: Printed/typed: -	3	or INFORMA Kelshaw	TION AND S	Date		520-11-		-	1

affix professional seal DEP Form F Rev. 9/01

PAGE	11_ OF 20	2								FORM F 2/02
SOIL	PROFILE	/ CLASSI	FICATION			N	SUBSUR		ESCRIPTION O	
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Signatu	ire: 72	-1-			Da	nte: Z	2020-11-0	3	SS SS	552
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Title:		sed Site Eval	Lator	🔊 Cer	tified S	oil S	cientist		THE O	annu.
	🗆 Certi	fied Geologist		🗆 Oth	er:				affix profes	sional seal

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PAGE	12 OF 2	0								FORM F 2/02
SOI					ATION			FACE CONDIT	ESCRIPTION C	JECT SITES
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S.E. >>		ification Slope	Limiting Factor	Groundwater Restrictive Layer Bedrock	soil da by S.E. I			ification Slope	Limiting Factor	Groundwater Restrictive Layer Bedrock
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		E. B. B.						1		
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0	ration Symbo " Organic horizon Texture	n thickness	Ground surface	□ Boring elev. 25	7	oratio " Org	on Symbo ganic horizoi	n thickness	De Test Pit Ground surface (□ Boring elev. 235
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Action of the solution of the	ration Symbo "Organic horizon Texture Stl exgrSl Fsl Soll Classi	I: <u>J30</u> n thickness G Consistency VFR FR FR FR FR FR FR FR FR FR	Color Color SYR 2. 7/2 7. 5 Y & 3/4 IOYR 4/4 Z. 5 Y 5/4 DEMSE	Boring elev. 2/5 Mottling NONE OBSERVED hcs 2'/. Graudwater Graudwater RestrictiveLayer	ر التقليم ا	oratio	on Symbo ganic horizon Texture Sil Sil Soil Classi	ol: <u>Z37</u> n thickness C Consistency hemic FR FI FI dition Slope dition Percent	Test Pit Ground surface of Color 7.5722.7/2 10484 2 2.544/2 544/2	□ Boring elev. <u>235</u> Mottling No NE OBSEQUED her 2'/. hur 20'/. hur 20'/.
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III GATA A DATA AND	13 OF 20								FORM F 2/02
SOIL	PROFILE	/ CLASS	FICATION		ATION	SUBSUR	DETAILED DI	ESCRIPTION O	F IECT SITES
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by S.E. ₩	Profile Con	dition Percent	Depth	Restrictive Layer Bedrock	S.E. H	Profile Cor	ndition Percent	 Depth	Restrictive Layer Bedrock
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S.E. >> soil data by S.S. >>	BRAYTON		Depth Depth J Hydric Non-hydric	Bedrock Hydrologic D Soil Group	S.E.I soil da	ita	Profile Con Soil series/phas	0.0	Depth Depth Hydric Non-hydric	Bedrock Hydrologic D Soli Group
0	ration Symbo Organic horizor	1: 146	Test Pit Ground surface (Boring Bev. 205	Exp		ation Symbo Organic horizor	1: 147	B. Test Pit Ground surface (□ Boring
0	Texture	Consistency	Color	Mottling		0	Texture	Consistency	Color	Mottling
6	stfsl	FILME	SYR215/2 SYRU12 SYRU14			6	Vstsl		10422.571	OBSERVED
inches)			7.5424/6		inches)	12	1272V	FR	2.544/2	her 10%
nface (CHERER D	urface (18	stsl		545/3	
Depth below mineral soil surface (in 25 82 05 75 81 51 51	grfsl	FR	10484 6		Depth below mineral soil surface (inches)	24	sl	FI		
v miner 8	-F5Q		2.554/4		/ miner	30			1.1771.1.001.111.2.001.001.001.001.001.001.00	
h belov	LOI	7- 1			h belov	36	LOT	29"	DENSE	Tiu
tdəQ		32"	DENIE	-Tree-	Dept	42				
					soil da	48. ta	Soil Classi	ification Slope	Limung Ergors	Oller Sprugter //
48 soil data by S.E. >>	Profile Con	fication Slope	Limiting Factor	Groundwater Restrictive Layer Gedrock	S.E.			dition Percent	- Dapth	Bedrock
soil data by		dition Percent		D Restrictive Layer		ta	Profile Con Soil series/phas BRAYTON V	stsl, Hsufaë	Non-hydric	
soil data by S.E. ++ soil data	Profile Con Soil series/phas PERU SHRI	aname 1357 Surface	 Depth □ Hydric I Non-hydric	Restrictive Layer Bedrock Hydrologic	S.E.) soil da by S.S.)	UR	Soil series/phas BEAYTON V E	stsl, Hsufaë	Non-hydrie	Bedrock Over Bedrock Over Bedrock Over Bhaw Graup
soil data by S.E. soil date by S.S. Signatu	Profile Con Soil series/phas PERU SHRI	dillon Percent a name y st Surface NVESTIGAT	 Depth □ Hydric I Non-hydric	Restrictive Layer Bedrock Hydrologic Soil Group	S.E.) soil da by S.S.) IGNAT	ta IUR e: 2	Soil series/phas BEAYTON V E 3020-11-	stsl, Hsufaë	Non-hydrie	Ishaw Group

SOIL PROFIL								FORM F 2/02
	E / CLASS	FICATION	INFORMAT	ΓΙΟΝ	and the second se	FACE CONDIT	SCRIPTION O	JECT SITES
Project Name: 3 Geners S	POLAR PROJE	Applic S	cant Name: SRNERS, LLC	r		roject Location ムいてい 参し	n (municipality)งการ โมส	ARRAY
Exploration Sym		Dest Pit Ground surface	Boring	-	ation Symbo		I Test Pit Bround surface e	Boring
0Texture	Consistency	Color	Mottling		Texture	Consistency	Color	Mottling
e pear	tiboe	51R2.5/2	NONE	8	peat	fibric	5422.5/2	
Depth below mineral soil surface (inches)	VFR	7.5824/4	OBSERVED	Depth below mineral soil surface (inches)	Vstfsl	1	5786/2	NONE
e) ey 18	FR	IOYR4 4		j) eoej 18		VER	7.54R4/4	
Ins los 24	FE	254413	her 10%.	uns lios	vstsl		10424/4	hes 101
30		•		neral s		FR		
LI NO				30 N	LOL	304	2	
a 36 LOI	30"	DENSE		spth be	FOT	30	DENSE	11-6
and the second		OTADIE						
by	assification Slope	Limiting Factor	Groundwater Restrictive Layer	48 soil data by	Soil Class	ification Slope	Limiting Factor	Groundwater Restrictive Layer
S.E. IN Profile	Condition Percent hase name:	Depth D Hydric	El Bodrock Hydrologic	S.E. ₩ soil data by	Profile Con Soil series/phas	idition Percent	Depth	El Bedrock Hydrologic
S.S. * COLONE	el-fsl	X Non-hydric	Sail Group		COLONEL .	vstal	與 Non-hydric	Soil Group
Exploration Sym		I Test Pit Bround surface 6	□ Boring slev. 95	100	ation Symbo		I Test Pit	Boring
oTexture	Consistency			10	Organic horizor	thickness G	round surface e	alev / 85
Sl	3	Color	Mottling	<u></u>	Organic horizor Texture	n thickness G	round surface e Color	elev. <u>/ 85</u> Mottling
6	VFR	5982.1/2 7.5786/2		0		Consistency		
6	tibric	54R2. F/2	Mottling	0	Texture		Color	Mottling No.N∈
12 5+5 X	VER	5822.F/2 7.586/2 7.5883/4	Mottling	(inches)	Texture	Consistency	Color	Mottling
12 5+5 X	VER	5982.1/2 7.5786/2	Mottling	(inches)	Texture	Consistency	Color	Mottling No.N∈
12 5+5 X	VPR FR	5822.4/2 7.582.6/2 7.582.3/4	Mottling Alowe OBSERVED	(inches)	Texture St mysk	Consistency	Color 5422172 5645/1	Mottling NoNE OBFRIED
	VPR FR	5822.F/2 7.586/2 7.5883/4	Mottling	(inches)	Texture St mysk	Consistency Same FI	Color Syret T/2	Mottling No.N∈
	VPR FR	5822.4/2 7.582.6/2 7.582.3/4	Mottling AIONE OBSERVED	(inches)	Texture St mysk	Consistency Same FI	Color 5422172 5645/1	Mottling NoNE OBFRIED
6 12 12 12 12 12 12 12 12 12 12	VPR FR	5782.F/2 7.578.6/2 7.578.3/4 1048.4/3 2.584/3	Mottling AIONE OBSERVED	Depth below mineral soil surface (inches)	Texture St mysk	Consistency Same FI	Color 5422172 5645/1	Mottling NoNE OBFRIED
6 5+5 12 12 12 18 18 24 30 36 48 Soil Clil data Soil	FIL T2 ¹¹ assification Stope	5822.4/2 7.582.6/2 7.582.3/4 1098.4/3 2.584/3 Prr DEf	Mottling	0 6 12 12 18 18 18 24 24 24 25 24 26 24 26 24 26 26 26 26 26 26 26 26 26 26 26 26 26	Texture St mvck Vstsil LOI Soil Classi	Consistency Sagne FI 22"	Color 5422172 5645/1	Mottling NoNE OBSERNED T.LL
6 St51 12 St51 13 St51 14 St51 15 St51 16 St51 17 St51 18 St51 10 St51	FIL FIL FIL Assification Slope Condition Percent Parcent Percent Percent	5782.4/2 7.578.6/2 7.578.3/4 1098.4/3 2.594/3 Prr DEf	Mottling	Depth below mineral soil surface (inches)	Texture St myck Vstsil LOI Soil Classi Profile Con Soil series/phas	Consistency	Color 5422172 5645/1	Mottling NoNE OBJERNED T.LL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
6 5+5 12 12 12 12 130 14 14 18 15 18 16 18 30 18 30 36 42 14 48 Soll 61 data Soll Soll series/pl 61 data Soll series/pl 10	FIL FIL FIL T2 ¹¹ assification Stope Condition Percent hase name: 1, st sufficile	5782.4/2 7.578.6/2 7.578.3/4 1078.4/3 2.594/3 2.594/3 Limiting Factor Limiting Factor Hydric Kon-hydric	Mottling	0 6 12 12 18 18 30 30 30 30 42 48 50 10 41 48 50 10 41 48 50 10 41 48 50 10 40 48 50 50 50 50 50 50 50 50 50 50 50 50 50	Texture St myck Vstsil LOI Soil Classi Profile Con Soil series/phas BURNHAM	Consistency	Color 54/22 T/2 56/5/1 DENSE DENSE Limitab Factor DENSE DENSE Color	Mottling Mottling Moteling OBSERVED OBSERVED OBSERVED OBSERVED Moteling OBSERVED Discourse
(sepul) 12 12 12 12 12 12 12 12 12 12	FIL FIL FIL T2 ¹¹ assification Stope Condition Percent hase name: St Suffic. INVESTIGAT WWESTIGAT	5782.4/2 7.578.6/2 7.578.3/4 1078.4/3 2.594/3 2.594/3 Limiting Factor Limiting Factor Hydric Kon-hydric	Mottling	0 6 12 12 18 18 24 30 30 36 42 48 50 10 48 50 50 10 48 50 10 48 50 50 50 10 48 50 50 50 50 50 50 50 50 50 50 50 50 50	Texture St myck Vstsil LOI Soil Classi Profile Con Soil series/phas BURNHAM E 2020-11-	Consistency	Color 54/22 T/2 56/5/1 DENSE DENSE Limitab Factor DENSE DENSE Color	
(Sepure 12 12 12 12 12 12 12 12 12 12	FIL FIL FIL T2 ¹¹ assification Stope Condition Percent hase name: St Suffic. INVESTIGAT WWESTIGAT	STRZ.F/2 7:5TR26/2 7:5TR3/4 107K4/3 2.594/3 2.594/3 Prr DEf Limiting Factor Depth Hydric Non-hydric OR INFORM/	Mottling	0 6 12 12 13 18 12 18 18 24 30 35 42 48 Soli data by S.E. ▶ Soli data by S.S. ▶ Soli data by S.C. ▶ Soli data by S.C. ▶ Soli Catal Cert/Lic	Texture St myck Vstsil LOI Soil Classi Profile Con Soil series/phas BURDHAM E 2020-11- C/Reg. #	Consistency	Color SYRET/2 SGY5/1 DENSE Liminto Factor DENSE Liminto Factor DENSE Liminto Factor DENSE	Mottling No.NE OBSEQUED T.LL T.LL Internet Bedrock Service Bedrock Service SS552

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AGE	18 OF 20	>							FORM F 2/02
SOIL	. PROFILE	/ CLASSI	FICATION	INFORMA	TION	SUBSUR	DETAILED DE	SCRIPTION O	F JECT SITES
Projec 3 C	t Name: DENERS SOL	LAR PROJEC		Cant Name:	C	Pac	roject Location	n (municipality	FREAT
100	ration Symbo Organic horizor	 Contraction of the second secon	Da Test Pit Bround surface e	□ Boring	· · ·	ation Symbo		Test Pit	D Boring elev. 190
0	Texture	Consistency	Color	Mottling	0	Organic horizo Texture	Consistency	Found surface (Mottling
6		VER	5122.5/1		6	177777878-011000-0000-0104-01100-0104	VFR	57K2.5/1 57K5/2 104R3/4	
12 18 24 30 36 42		FR	2.58414	NONE	inches)			9 1995 - 19 000 - 1	NONE
18			2.575/6		nface (stsil	FR	2.594/4	
24	sl	FI	545/4	hur 10%	IS IIOS PE			2.575 6	his 10%.
30		VFI			w miner		FE	575/4	
36	LOI	32"	DENSE		Depth below mineral soil surface (inches) 7 9 9 7 15 18 17	LOI	2-1		
42			UNDE				32'	DENSE	Tiu
48 data by E, ►►	Profile Con	fication Slope	Limiting Factor	Groundwater Restrictive Layer Bedrock	48 soil data by S.E. ₩		ification Slope	Limiting Factor	Groundwater Restrictive Layer Bedrock
data ≫ 5. ₩	PERU SL		□ Hydric 文 Non-hydric	Hydrologic Soll Group	soil data by S.S. ₩	Soil series/phas	0	D Hydric Non-hydric	Hydrologic
è .	ation Symbo Organic horizor		Test Pit	□ Boring elev. 185	6	ation Symbo Organic horizor		Test Pit	□ Boring elev. / 85
٥	Texture feet	Consistency	Color Stert/2	Mottling	0	Texture	Consistency	Color	Mottling
8		VFR	7.542416	NONE	6		VFR	7.54123/2	
12	<u> </u>		101246		(inches)	Colos		7.5824/4	NONE
18	sl	FR	2.594/6	her 5%	Depth below mineral soil surface (ir 8 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	grsl	FR	104124/6	
24 30	grsl	FI	575/3		24 30 30		FI	2544/3	her 10%
36	LOI	- 29"	DENSE	Till	below n	LoI	3011	DENSE	Tite
42					tiqed 45				
49 data y L. M data		fication Slope dition Percent e name:	Limiting Factor	D Groundwater D Restrictive Layer D Bedrock Hjydrologic	48 soil data by S.E. ► soil data		fication Slope dition Percent	Umiting Factor	SQ Huns Set
эу 5. »>	COLONEL	l	D Hydric	Soil Group	by S.S.≯	PERU Co	0	Non-hydric	ddneg der
natu			DR INFORMA	TION AND S	IGNATUR Date:	RE 2020-11-0			SS552
	Printed/typed:	Rodney	Kelshaw			CIREG. #	552	TI STAT	E OF MAIN
e:		sed Site Evalu ied Geologist	uator	⊠ Certil	fied Soil S r:	cientist			sional seal

affix professional seal DEP Form F Rev. 9/01

PAGE	19 OF 20	5							FORM F 2/02
SOIL	PROFILE	/ CLASSI			ATION	SUBSU	DETAILED D	ESCRIPTION C	F JECT SITES
Projec 30	t Name: OENERS Sou	UNE PROJEC	Applic SC	ant Name: or wers, LL	C		Project Locatio	n (municipality) איזדי דשף - ו	1): Areay
and the second sec	ration Symbo	and the second se		Boring	Exploi	ration Syml	ool: 157	🖉 Test Pit	□ Boring
10	Organic horizor	n thickness	Bround surface e	lev. 175	12	Organic hori:	zon thickness	Ground surface	elev. 175
0	Texture	Consistency	Color	Mottling	0	Texture	Consistency	Color	Mottling
6 (S	exstower	Sapere	7.5882.571	NONE	6	Muck	Saptic	7.542.5/1	NONE
luche 15					surface (inches)	1			OBSERVED
ace (VSFSL	FL	2.584/2	her 15%	ace (i	Sil	- <u>F</u> -T	2.594 2	her 15%
sjins j	stl	VFI	545/3	LCF 15%	ajuns		F		Cr 151/
105 E			·····		05 24	Sicl	VEI	548/3	
niner 30	LOI	20"	DENSE	Till	00 Niner			144 (1997)	
Depth below mineral soil surface (inches) 7 8 8 21 7					Depth below mineral soil	Fol	24"	Dawsi	8
Uepth 42					epth I		99 ()) = () = () =		
D **				***	a 42				
48 soil data	Soit Classi	fication Slope	Limiting Factor	Groundwater	48 soil data	Soil Cla	issification Stope	Limiting Factor	Groundwater
S.E. H		dition Percent	Depth	Restrictive Layer Bedrock	S.E. H	Profile 0	Condition Percent	"	Restrictive Layer Bedrock
soil data by S.S.₩	Soil series/phas BRAYTON V	. 0)⊈ Hydric □ Non-hydric	Hydrologic	soil data by S.S. H	Soil series/ph	ase name:	Hydric Non-hydric	Hydrotogic
-				Sail Group		SCANTI			Soll Group
	ration Symbo Organic horizor		Dest Pit round surface e	Boring lev 230			ool: <u>200</u>	D Test Pit Ground surface (□ Boring
0	Texture	Consistency	Color	Mottling		Texture	Consistency	Color	Mottling
Ū	Pent	fibric	2.5422.5/1		0	Peat	Fibric	10422/2	
o (s)	S.R		7.54R5/2		6 (S			7.548414	
luche			54244		inche		FR	7.546/2.	OBSERVED
18 18	ls	6	104R414	NONE	face (vfsl			
in sni					oil sur			7.544/3	her 5%
05 24 101	Vartes				os lei		+T	1.2.112	1153 3 1.
30 Nim	VOI XS		Z.574/4		00 mine			-	
Depth below mineral soil surface (inches) 8 8 7 8 8 1 21	gels		544/3		Depth below mineral soil surface (inches) 25 26 75 81 strates 71	LOI	26"	DENSE	Till
Depth 5	- Tol	72"	LARGE P.	7	41deod			 A state of the second se	
48					45			111111	111111
soil data by	Soil Classif	fication Slope	Limiting Factor	Groundwater Restrictive Layer	soil data by	Soil Cla	ssification Slope	winited Eaglor -	- El-Groundkater
S,E, ₩ soil data	Profile Conc Soil series/phase		Depth	D Bedrock Hydgologic	S.E.₩ soll data	Profile C Soil series/ph	andition Percent	1 2 DepurRod	D. Berlinck
S.S. +>	COLTON	ls	□ Hydric 🗴 Non-hydric	A Soil Group	S.S. »	TELOS	IFSI E	B Aydric R Non-hydric	1 No. 1
		NVESTIGAT	DR INFORMA	TION AND S	GNATUR			*: 00	3552
Signatu	re: TZ.	L	\sim		Data	2020-11	-03	5 Shin	1
Name F	Printed/typed:	Rodney t	Felshaw			100	552	ATE	DF MA
Title:	Licen Certif		uator	Cert	ified Soil S er:	cientist			sional seal

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-	20 OF 2	0						F	ORM F 2/02
sol	L PROFILE		FICATION	INFORMA	TION	SUBSURI	DETAILED DE	SCRIPTION OF	
Proje	ct Name: Coeners S	OLAR PROJ	ECT 3	ant Name: Cozucils, L	LC	Pr	oject Location	(municipality) SUBSTATION)
a contraction of the	oration Symbo " Organic horizo		I Test Pit Fround surface e	Boring	1600	ition Symbo Organic horizor	1: TP160 1 hickness Gi	D Test Pit round surface el	Boring
	Texture	Consistency	Color	Mottling	0	Texture	Consistency	Color	Mottling
	٠ <u>ـ</u>		7.548.3/3					7.54R33	
	e <u>grk</u>		7.548416	NONE OBSERVED	es)				
1 nche	2	VFR	LOYRY 6		40 12		VFR		
irface (8 Ngrsil				surface (inches)			1042416	NONE
oilst					S IOS 24	grl		1994 - 1995 - 19	
srals	Vgrx	FR	104243		erals		FR	109RU/4	
mine s	0				UII 30		1.4	-1. Second data of free and a	
Depth below mineral soil surface (inches)	16 LOI	- 28'	BEDR	oCk	Depth below mineral			2	
bepth	12 *	$\langle \cdot \rangle$	- /		IIdaO 42		201	Deepe	<u>c.1</u>
		/		- \		LOL	50	SEDKO	DUK
soil dat	a Soil Clas	sification Slope	Limiting Factor	Groundwater	48 soil data	Soil Class	ification Slope	Limiting Factor	Groundwater
S.E.	Profile Co	andition Percent	Depth	 Restrictive Layer Bedrock 	S.E. ₩		ndition Percent	Depth	Restrictive Layer Bedrook
soil dat by S.S.)	Soil series/pha		□ Hydric ⊠ Non-hydric	Hydrologic	soil data by S.S. ₩	Soll series/phas	0	 Hydric Non-hydric 	Soli Group
0		ol: <u>TP161</u>	Test Pit	Boring	1000		n thickness G	☑ Test Pit iround surface e	Boring
Ø	_ " Organic horizo		Ground surface e Color 7,5YR 3/3		<u> </u>	ation Symbo Organic horizo Texture	ol: TP162 of n thickness G Consistency	☑ Test Pit round surface e Color	
0	Organic horizo	on thickness C	Ground surface e	elev. 222 Mottling	0	Organic horizo	n thickness G	round surface e Color	Mottling
0	_ " Organic horizo	on thickness	Ground surface of Color 7,5YR 3/3	elev. <u>222</u>	0	Organic horizo	n thickness G	round surface e Color	lev. 217
0	_" Organic horizo	on thickness C	Ground surface e	NoNE	0	Organic horizo	n thickness G	Color LOYR-3/3	NONE
0	_ " Organic horizo	On thickness C Consistency	Ground surface of Color 7,5YR 3/3	NoNE	0	Organic horizo	n thickness G	round surface e Color	NONE
0	_" Organic horizo	On thickness C Consistency	Ground surface of Color 7,5YR 3/3	NoNE	0	Organic horizo Texture	n thickness G	Color LOYR-3/3	NONE
0	_" Organic horizo	On thickness C Consistency	Ground surface of Color 7,5YR 3/3	NoNE	0	Organic horizo Texture	n thickness G	round surface e Color 10423/3 25484/4 10484/6	AJONE
Ø	_" Organic horizo	On thickness C Consistency	Ground surface 6 Color 7,5YR 3/3 10YR 9/4	None	0	Organic horizo Texture	n thickness G	round surface e Color 10423/3 25484/4 10484/6	AJONE OSSEEVED
0	_ " Organic horizo	On thickness C Consistency	Ground surface 6 Color 7,5YR 3/3 10YR 9/4	None	0	Organic horizo Texture	n thickness G	round surface e Color 10423/3 25484/4 10484/6	AJONE OSSEEVED
pth below mineral soil surface (inches)	_ " Organic horizo	On thickness C Consistency	Ground surface (Color 7,5423/3 10484/4 2.544/4	None	Depth below mineral soil surface (inches)	Organic horizo Texture	n thickness G	round surface e Color 10423/3 25484/4 10484/6	AJONE OSSEEVED
Depth below mineral soil surface (inches)	_" Organic horizo	on thickness C Consistency VFR FR	Ground surface 6 Color 7,5YR 3/3 10YR 9/4	NoNE OBERNED	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Organic horizo Texture	n thickness G	IOYRY/4 IOYRY/4 IOYRY/4 DENSE	NONE ORSERVED
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Appendix C SOIL MAP UNIT DESCRIPTIONS

Table 1. Map Unit Descriptions Summary

Map Unit Symbol	Map Unit Name	HSG	Drainage Class	Bedrock	Frost Action	Ksat	Concrete Corrosion	Steel Corrosion	Fence 36	Rutting Hazard	Flooding Potential
		1150	Dramage class	Dedrock	Action	1501	CONOSION	Corrosion	Very		rotential
BmA	Burnham/Monarda Complex	D	Very Poorly & Poorly	Very Deep	High	Mod. High to High/Mod. Low or Low	High	High	Limited	Severe	None
BrA, BrB, BrC	Brayton vstfsl	D	Poorly	Very Deep	High	Mod. High or High/Mod. Low or Mod. High	High	High	Very Limited	Severe	None
BsA	Biddeford/Scantic Complex	D	Very Poorly & Poorly	Very Deep	High	Mod. High or High/Mod. Low or Low	High	High	Very Limited	Severe	None
СоА, СоВ	Colonel stsl	D	Somewhat Poorly	Very Deep	High	Mod. High or High/Mod. Low or High	High	High	Very Limited	Severe	None
СрА, СрВ, СрС	Colonel/Peru Complex	C/D	Somewhat Poorly & Mod. Well	Very Deep	Moderate	Mod. High or High/Mod. Low or High	High	High	Very Limited	Moderate to Severe	None
CsB	Colton Is	A	Excessively	Very Deep	Low	Very High or High/Very High	High	Moderate	Very Limited	Moderate	None
НоВ, НоС, НоD	Howland sil	C/D	Mod. Well	Very Deep	Moderate	Mod. High/Mod. Low	High	High	Very Limited	Severe	None
HtM	Human Trans	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated
LaA, LaB	Lamoine sil	D	Somewhat Poorly	Very Deep	High	Mod. High/Mod. Low to Mod. High	Moderate	High	Very Limited	Severe	None
LbB	Lamoine/Buxton Complex	C/D	Somewhat Poorly & Mod. Well	Very Deep	Moderate & High	Mod. High/Low to Mod. High	Moderate	High	Very Limited	Severe	None
LrA, LrB	Lyme sl, shallow to mod. Deep	D	Poorly	Shallow to Mod. Deep	High	Mod. High or High/Mod. High or Very High	High	High	Very Limited	Severe	None
LtB, LtC	Lyman/Tunbridge Complex	C/D	Somewhat Excessively & Well	Shallow to Mod. Deep	Moderate	Mod. High or High	High	High	Very Limited	Moderate	None
LyC, LyD	Lyman fsl	D	Somewhat Excessively	Shallow	Moderate	Mod. High or High	High	High	Very Limited	Moderate	None
MoA, MoC	Monarda sil	D	Poorly	Very Deep	High	Mod. High or High/Low or Mod. High	High	High	Very Limited	Severe	None
МрА, МрВ	Marlow/Peru Complex	C/D	Well & Mod. Well	Very Deep	Moderate	Mod. High or High/Mod. High or Low	High	High	Very Limited	Moderate	None
PbA, PbC	Peacham/Brayton Complex	D	Very Poorly & Poorly	Very Deep	High	Mod. High or High/Mod. Low or Low	High	High	Very Limited	Severe	None
PcA, PcB, PcC, PcD	Peru/Colonel Complex	C/D	Mod. Well & Somewhat Poorly	Very Deep		Mod. High or High/Mod. Low or High	High	High	Very Limited	Moderate to Severe	None

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PeA	Peacham fsl	D	Very Poorly	Very Deep	High	Mod. High or High/Mod. Low or Low	Moderate	High	Very Limited	Severe	None
PmB, PmC, PmD	Peru/Marlow Complex	C/D	Mod. Well & Well	Very Deep	Moderate	Mod. High or High/Mod. High or Mod. Low	High	High	Very Limited	Moderate	None
ScA, ScB	Scantic sil	D	Poorly	Very Deep	High	Mod. High or High/Mod. Low or Mod. Low	Moderate	High	Very Limited	Severe	None
SrA, SrD	Scantic sil, mod. Deep	D	Poorly	Shallow	High	Mod. Hi	Moderate	High	Very Limited	Severe	None
TcB, TcC, TcD	Telos/Chesuncook Complex	C/D	Somewhat Poorly & Mod. Well	Very Deep	Moderate	Mod. High or High/Low to Mod. High	High	High	Very Limited	Severe	None
TIB, TIC, TID	Tunbridge/Lyman Complex	C/D	Well & Somewhat Excessively	Mod. Deep	Moderate	Mod. High or High	High	High	Very Limited	Moderate	None

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Map Unit:Biddeford/Scantic ComplexClassification:Biddeford: Fine, illitic, nonacid, frigid Histic Huma

Classification:Biddeford: Fine, illitic, nonacid, frigid Histic HumaqueptsScantic: Fine, illitic, nonacid, frigid Typic EpiaqueptsMap Unit Symbol:BsA

<u>Setting</u>

Parent Material:Biddeford: Muck over glaciolacustrine or glaciomarine deposits
Scantic: Glaciolacustrine or glaciomarine deposits
Nearly level and depressions on glaciated uplandsLandform:Nearly level and depressions on glaciated uplandsPosition in Landscape:Coastal lowlands and river valleysSlope Gradient Range:(A) 0-3%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 0' Typical Profile Description:

Biddeford:

0 – 14" Black, muck, very stony 14 – 20" Grayish olive, silty clay loam, m, FI

Scantic:

Surface Layers:

0 – 3" Black, mucky peat

3 - 10" Grayish olive, silty clay loam, m, FI

Subsurface Layers:

10 – 15" Grayish olive, silty clay loam, m, VFI

Redox Con. dark yellowish brown 10%

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:SwanvilleDissimilar:Peru/Marlow Complex

USE AND MANAGEMENT

This map unit is mapped in wetland areas adjacent to Fifteenmile Stream and other streams in the transmission line. Major use and management concerns are that Biddeford and Scantic soils are hydric, so areas mapped as Biddeford/Scantic Complex are wetlands, and as such, impacts to these areas could require regulatory oversight. Biddeford and Scantic soils are both very deep to bedrock yet shallow to dense substratum which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads could require additional engineering. They may also incur ponding due to their landscape location. The NRCS data lists the flooding potential as none, however, since they are mapped along streams they may flood at times of high water. These soils can be compacted if exposed to heavy equipment when wet and are



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easily ruttable so equipment limitations may be severe. Thick organic surface layers can lead to instability. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.

Map Unit:

Brayton very stony sandy loam

Classification: Loamy, mixed, active, nonacid, frigid, shallow Aeric Endoaquepts Map Unit Symbol: BrA, BrB, BrC

SETTING

Parent Material: Landform:

Lodgement till Ground moraines Position in Landscape: Depressions and on toeslopes Slope Gradient Range: (A) 0-3%, (B) 3-8%, (C) 8-15%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 0"

Typical Profile Description:

Surface Layers:

0 – 5" Black, muck; very stony 5 – 9" Gray, very stony sandy loam, sbk, FR Redox Con. dark yellowish brown 5% 9-14" Olive gray, very stony sandy loam, sbk, FR Redox Con. dark yellowish brown 5% Subsurface Layers: 14 – 24" Light olive brown, very stony sandy loam, pl, Fl

Redox Con. dark yellowish brown 5%

24 - 26" Light olive brown, stony sandy loam, m, FI Redox Con. strong brown 30%

Substratum: 26'

Lodgment till, m, VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit) Similar: Colonel

Dissimilar: Peru

USE AND MANAGEMENT

This map unit is mapped in wetland areas across the site. Major use and management concerns are that Brayton soils are hydric, so most areas mapped as Brayton are wetlands, and as such, impacts to these areas could require regulatory oversight. Brayton soils are very deep to bedrock yet shallow to dense till which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.



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Map Unit:	Burnham/Monarda Complex
Classification:	Burnham: Histic Humaquepts
Map Unit Symbol:	Monarda: Loamy, mixed, active, acid, frigid, shallow Aeric Endoaquepts BmA
SETTING	
Parent Material:	Burnham: Muck over lodgement till Monarda: Lodgement till
Landform:	Nearly level and depressions in glaciated landscape
Position in Landscape: Slope Gradient Range:	Lower positions in landscape, bases of long slopes, swales and depressions (A) 0-3%
COMPOSITION AND SO	IL CHARACTERISTICS
Depth to Water Table:	O"
Typical Profile Description	on:
Burnham: 0 - 18" Black	muck, very stony
	ish gray, very stony silt loam, m, Fl
22" Lodge	ment till, m VFI
Monarda:	
Surface Layers:	
	mucky peat
4 – 11″ Dark g	rayish brown, silt loam, sbk, FR Redox Con. dark yellowish brown 2%
Subsurface Layers:	Redux Con. dark yellowish brown 270
	rayish brown, silt loam, pl, Fl
	Redox Con. dark yellowish brown 20%
21 – 31" Dark ye Substratum:	ellowish brown, gravelly sandy loam, m, Fl
31 – 34″ Lodge	ment till, m VFI
<u>Hydrologic Soil Group (</u>	HSG): See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1

Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (wi	<u>thin mapping unit)</u>
Similar:	Biddeford/Scantic Complex
Dissimilar:	Telos/Chesuncook Complex

USE AND MANAGEMENT

This map unit is mapped in wetland areas adjacent to Fifteenmile Stream and a pond in the panel array. Major use and management concerns are that Burnham and Monarda soils are hydric, so most areas mapped as Burnham/Monarda Complex are wetlands, and as such, impacts to these areas could require regulatory oversight. Burnham and Monarda soils are both very deep to bedrock yet shallow to dense till which typically creates a seasonal



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high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads, could require additional engineering. They may also incur ponding due to their landscape location. The NRCS data lists the flooding potential as none, however, the area mapped along Fiffteenmile Stream may flood at times of high water. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Thick organic surface layers can lead to instability. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.

Map Unit: Class

Colonel/Peru Complex

sification:	Colonel: Loamy, isotic, frigid, shallow Aquic Haplorthods
	Peru: Coarse-loamy, isotic, frigid, Aquic Haplorthods
Unit Symbol:	CpA, CpB, CpC

SETTING

Map

Parent Material: Lodgement till Landform: Ground moraines, hills and mountains Position in Landscape: Hill summits, sideslope, foot slope, and base slope Slope Gradient Range: (A) 0-3%, (B) 3-8%, (C) 8-15%

COMPOSITION AND SOIL CHARACTERISTICS Depth to Water Table:

Colonel: 8-16" Peru: 16-40"

Typical Profile Description:

Colonel:

Surface Layers:

- 0 3" Black, muck; stony
- 3 9" Gray, stony sandy loam, sbk, VFR
- 9-14" Olive gray, stony sandy loam, sbk, FR
- Subsurface Layers:
 - 14 24" Light olive brown, sandy loam, pl, FR

Redox Con. dark yellowish brown 5%

- 24 26" Light olive brown, sandy loam, m, FI
 - Redox. Con. strong brown 10%

Substratum: 26"

Lodgment till, m, VFI

Peru:

Surface Layers:

- 0 2"Black, mucky peat
- 2 4" Pinkish gray, fine sandy loam, sbk, VFR
- 4 6" Reddish brown, fine sandy loam, sbk, VFR
- Subsurface Layers:
 - 6-14" Brown, fine sandy loam, sbk, FR
 - 14 24" Dark yellowish brown, fine sandy loam, sbk, FR
- Substratum:

24 - 30" Olive brown, m, VFI

- Redox. Con. strong brown 2%
- 30 32" Lodgment till, m, VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar: Telos Brayton, Tunbridge **Dissimilar:**



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USE AND MANAGEMENT

This map unit is mapped in forested areas, typically adjacent to wetlands and/or in low areas and along toeslopes throughout the site. They are typically in hummocky settings creating a complex of interspersed pits and mounds where there are more pits (somewhat poorly drained) than mounds (moderately well drained). Major use and management concerns are that Colonel and Peru soils are both very deep to bedrock yet shallow to dense till. This can create a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as road construction, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Accepted construction techniques such as matting to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of adjacent resources. Phases of this soil included within the map unit are areas with a very stony surface and very stony subsurface layers.

Map Unit:

Colonel stony sandy loam

Classification:Loamy, isotic, frigid, shallow Aquic HaplorthodsMap Unit Symbol:CoA, CoB

SETTING

Parent Material:	Lodgement till
Landform:	Ground moraines
Position in Landscape:	Foot slope and base slope
Slope Gradient Range:	(A) 0-3% (B) 3-8%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 7-16"

Typical Profile Description: Surface Layers:

0 – 3" Black, muck; stony

3 – 9" Gray, stony sandy loam, sbk, VFR

9 – 14" Olive gray, stony sandy loam, sbk, FR

Subsurface Layers:

 14 – 24" Light olive brown, sandy loam, pl, FR Redox Con. dark yellowish brown 5%
 24 – 26" Light olive brown, sandy loam, m, FI

Redox. Con. strong brown 10%

Substratum: 26"

Lodgment till, m, VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar: Peru Dissimilar: Brayton

USE AND MANAGEMENT

This map unit is mapped in forested areas, typically adjacent to wetlands throughout the site. Major use and management concerns are that Colonel soils are very deep to bedrock yet shallow to dense till which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as road construction, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Accepted construction techniques such as matting to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of adjacent resources. Phases of this soil included within the map unit are areas with a very stony surface and very stony subsurface layers.



Colton loamy sand

Map Unit: **Classification:** Sandy-skeletal, isotic, frigid Typic Haplorthods Map Unit Symbol: CsB

SETTING

Parent Material:	Sandy skeletal glacio-fluvial deposits
Landform:	Outwash terraces
Position in Landscape:	Summit, backslope, side slope
Slope Gradient Range:	(B) 3-8%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: > 80"

Typical Profile Description:

Surface Layers:

- 0 3" Reddish gray, fine sandy loam, sbk, VFR
- 3 4" Reddish gray, fine sandy loam, sbk, VFR
- 4 5" Dark reddish brown, very cobbly fine sandy loam, sbk, VFR
- 5-10" Strong brown, very cobbly course sandy loam, sbk, VFR

Subsurface Layers:

- 10 18" Dark yellowish brown, very coarse gravelly loamy coarse sand, gr, L
- 18 23" Yellowish brown, cobbly coarse sand, gr, L

Substratum:

22 - 48" Light olive brown, very coarse gravelly coarse sand, gr, L

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar: Adams **Dissimilar:** Colonel

USE AND MANAGEMENT

These soils are on a glacial outwash terraces near the west-central portion of the panel array. The soils formed in water-sorted sand, gravel, cobbles, and stones typically derived from granite. Because these soils are excessively drained and are very deep to bedrock and densic contact issues with seasonal water or obstructions to excavation should not be significant. Due to the coarse texture and loose structure they may not maintain excavated walls and be susceptible to caving without support. Revegetation of impacted soil may also be difficult if topsoil is not added.



Map Unit Symbol:

Map Unit: Classification:

Howland very stony silt loam

Coarse-loamy, isotic, frigid Aquic Haplorthods HoB, HoC, HoD

<u>SETTING</u>

Parent Material:	Lodgment glacial till
Landform:	Drumlins and till ridges
Position in Landscape:	Side lopes of rolling hills
Slope Gradient Range:	(B) 3-8%, (C) 8-15%, (D) 15-35%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 16-40" Typical Profile Description:

Surface Layers:

0 – 1" Black, peat

1 - 5" Brown, very stony silt loam, sbk VFR

5 – 14" Dark reddish brown, very stony silt loam, sbk, FR <u>Subsurface Layers:</u>

14 – 18" Brown, very stony silt loam, sbk, FR

18 - 23" Light olive brown, stony silt loam, sbk, FR

Redox Con. dark yellowish brown 5%

Substratum:

23 – 28" Light olive brown, stony silt loam, m, Fl Redox Con. dark yellowish brown 5% Redox Dep. olive gray 5%

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Chesuncook, Telos
Dissimilar:	Monarda, Brayton

USE AND MANAGEMENT

This map unit is mapped in forested areas, typically along sideslopes within the transmission line. They may have hummocky topography. Major use and management concerns are that Howland soils are very deep to bedrock yet moderately deep to dense till. This can create a seasonal high-water table close to the mineral soil surface, so activities impacted by a high-water table, such as road construction, could require additional engineering if conducted during spring and fall. Some phases of this soil contain grade over 20% so access and erosion controls should be planned prior to working in these areas.



Map Unit: Lamoine/Buxton Complex

Classification:	Lamoine: Fine, illitic, nonacid, frigid Aeric Epiaquepts
	Buxton: Fine, illitic, frigid Aquic Dystric Eutrudepts
Map Unit Symbol:	LbB

<u>Setting</u>

Parent Material:	Glaciolacustrine or glaciomarine deposits
Landform:	Nearly level and gently sloping areas
Position in Landscape:	Coastal lowlands and river valleys
Slope Gradient Range:	(B) 3-5%

COMPOSITION AND SOIL CHARACTERISTICS

Lamoine: 8-16" Buxton: 16-40"

Typical Profile Description:

Depth to Water Table:

Lamoine:

- Surface Layers:
 - 0 1" Black, peat
 - 1-9" Light olive brown, silt loam, m, FR

Subsurface Layers:

9 – 12" Light olive gray, silt loam, m, Fl Redox Con. dark yellowish brown 5%

Buxton:

Surface Layers:	
0 – 1 ″	Black, peat
1 – 9″	Light olive brown, silt loam, sbk, FR
Culture of a set of a set	

Subsurface Layers:

9-17" Light olive gray, silt loam, sbk, FR

17 - 24" Light olive gray, silt loam, m, FI

Redox Con. dark yellowish brown 5%

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Colonel
Dissimilar:	Peru, Scantic

USE AND MANAGEMENT

This map unit is mapped adjacent to wetlands within the transmission line. Major use and management concerns are that Lamoine and Buxton soils are shallow and moderately deep to dense substratum which typically creates a seasonal high water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet and are easily ruttable so equipment limitations may be severe. Accepted construction



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techniques such as matting to minimize soil disturbance and compaction are recommended in these areas. Due to the fine textured silty texture the soil particles can be easily transported by water and wind. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.

Lamoine silt loam

Classification:Fine, illitic, nonacid, frigid Aeric EpiaqueptsMap Unit Symbol:LaA, LaB

<u>SETTING</u>

Map Unit:

Parent Material:	Glaciolacustrine or glaciomarine deposits
Landform:	Nearly level and gently sloping areas
Position in Landscape:	Coastal lowlands and river valleys
Slope Gradient Range:	(A) 0-3%, (B) 3-5%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 8-16" Typical Profile Description: Surface Layers: 0 – 1" Black, peat 1 – 9" Light olive brown, silt loam, m, FR Subsurface Layers: 9 – 12" Light olive gray, silt loam, m, FI

Redox Con. dark yellowish brown 5%

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit) Similar: Buxton

Similar: Buxto Dissimilar: Peru

USE AND MANAGEMENT

This map unit is mapped adjacent to wetlands within the transmission line. Major use and management concerns are that Lamoine soils are shallow to dense substratum which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet and are easily ruttable so equipment limitations may be severe. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting to minimize soil disturbance and compaction are recommended in these areas. Due to the fine textured silty texture the soil particles can be easily transported by water and wind. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.



Map Unit:

Lyman fine sandy loam

Classification:Loamy, isotic, frigid Lithic HaplorthodsMap Unit Symbol:LyC, LyD

<u>SETTING</u>

Parent Material:	Loamy supraglacial till	
Landform:	Glaciated uplands	
Position in Landscape:	Ridge summits and shoulders	
Slope Gradient Range:	(C) 8-15%, (D) 15-35%	

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: < 20" to bedrock with no water table **Typical Profile Description:**

0 - 2" Peat
2 - 4" Very dusky red, fine sandy loam, sbk, VFR
4 - 7" Grayish brown, fine sandy loam, sbk, VFR
7 - 13" Dark reddish brown, fine sandy loam, sbk, VFR
13 - 17" Dark brown, fine sandy loam, sbk, VFR
17" Bedrock

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar: Abram

Dissimilar: Lyme

USE AND MANAGEMENT

This map unit is mapped within the transmission line on small ridge summits and shoulders. The transition from exposed bedrock outcrops to moderately deep soil is rapid and the pattern complex; with the dominant depth to bedrock being shallow. Since these soils are typically shallow so bedrock could be a limiting factor if excavation is planned. If construction is proposed in this area, then blasting will likely be required; however, the blast rock remnants typically create high value road building materials since it is resistant to erosion and impacts from large vehicle traffic. When exposed, these soils are susceptible to erosion so disturbance should be minimized by the use of erosion control devices and sediment controls should be installed prior to work downslope of these areas to avoid sedimentation of wetlands or off-site areas.



Lyman/Tunbridge Complex

Lýman: Loamy, isotic, frigid Lithic Haplorthods Tunbridge: Coarse-Ioamy, isotic, frigid Typic Haplorthods ol: LtB, LtC

Map Unit Symbol:

SETTING

Map Unit:

Classification:

Parent Material:Loamy supraglacial tillLandform:Glaciated uplandsPosition in Landscape:Ridge summits and shouldersSlope Gradient Range:(B) 3-8%, (B) 8-15%

COMPOSITION AND SOIL CHARACTERISTICS

Lyman: < 20" to bedrock with no water table

Tunbridge: 20 to <40" to bedrock with no water table

Typical Profile Description:

Depth to Water Table:

Lyman:

- 0-2" Peat
- 2-4" Very dusky red, fine sandy loam, sbk, VFR
- 4 7" Grayish brown, fine sandy loam, sbk, VFR
- 7-13" Dark reddish brown, fine sandy loam, sbk, VFR
- 13 17" Dark brown, fine sandy loam, sbk, VFR
- 17" Bedrock

Tunbridge:

- 0 3" Peat
- 3 5" Very dusky red, fine sandy loam, sbk, VFR
- 5 7" Grayish brown, fine sandy loam, sbk, VFR
- 7 13" Dark reddish brown, fine sandy loam, sbk, VFR
- 13 23" Dark brown, fine sandy loam, sbk, VFR
- 23 32" Dark yellowish brown, fine sandy loam, sbk, VFR 32" Bedrock

Drainage Class:See Table 1Depth to Bedrock:See Table 1Potential for Frost Action:See Table 1Saturated Hydraulic Conductivity (Ksat):See Table 1Concrete Corrosion:See Table 1Steel Corrosion:See Table 1Limitation to Fence Posts < 36" Deep:See Table 1Rutting Hazzard:See Table 1Flooding Potential:See Table 1	Hydrologic Soil Group (HSG):	See Table 1
Potential for Frost Action:See Table 1Saturated Hydraulic Conductivity (Ksat):See Table 1Concrete Corrosion:See Table 1Steel Corrosion:See Table 1Limitation to Fence Posts < 36" Deep:	Drainage Class:	See Table 1
Saturated Hydraulic Conductivity (Ksat):See Table 1Concrete Corrosion:See Table 1Steel Corrosion:See Table 1Limitation to Fence Posts < 36" Deep:	Depth to Bedrock:	See Table 1
Concrete Corrosion:See Table 1Steel Corrosion:See Table 1Limitation to Fence Posts < 36" Deep:	Potential for Frost Action:	See Table 1
Steel Corrosion:See Table 1Limitation to Fence Posts < 36" Deep:	Saturated Hydraulic Conductivity (Ksat):	See Table 1
Limitation to Fence Posts < 36" Deep:See Table 1Rutting Hazzard:See Table 1	Concrete Corrosion:	See Table 1
Rutting Hazzard: See Table 1	Steel Corrosion:	See Table 1
	Limitation to Fence Posts < 36" Deep:	See Table 1
Flooding Potential: See Table 1	Rutting Hazzard:	See Table 1
	Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar: Abram Dissimilar: Lyme

USE AND MANAGEMENT

This map unit is mapped within the transmission line on small ridge summits and shoulders. The transition from exposed bedrock outcrops to moderately deep soil is rapid and the pattern complex; with the dominant depth to bedrock being shallow. Since these soils are shallow to moderately deep then depth to bedrock could be a limiting factor if excavation is planned. If construction is proposed in this area, then blasting will likely be required; however, the blast rock remnants typically creates high value road building materials since it is resistant to erosion and impacts from large vehicle traffic. These soils are susceptible to erosion so disturbance should be minimized by the use of erosion control devices and sediment controls should be installed prior to work downslope of these areas to avoid sedimentation of wetlands or off-site areas.



Map Unit: Lyme sandy loam, shallow to moderately deep

Classification:Coarse-loamy, mixed, active, acid, frigid Aeric EndoaqueptsMap Unit Symbol:LrA, LrB

<u>SETTING</u>

Parent Material:	Loamy meltout till	
Landform:	Glaciated uplands	
Position in Landscape:	Hills and mountains	
Slope Gradient Range:	(A) 0-3%, (B) 3-8%	

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 0" **Typical Profile Description:**

Muck
Grayish brown, channery sandy loam, sbk, VFR
Redox Con. dark yellowish brown 10%
Olive gray, loamy coarse sand, ma, FR
Redox Con. dark yellowish brown 15%
Bedrock

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Brayton, Burnham
Dissimilar:	Lyman, Tunbridge

USE AND MANAGEMENT

This map unit is mapped in wetland areas within the transmission line and panel array. Major use and management concerns are that Lyme soils are hydric, so most areas mapped as Lyme are wetlands, and as such, impacts to these areas could require regulatory oversight. If these areas cannot be avoided then activities impacted by a high-water table, such as foundations and roads, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe.

Since these soils are shallow/moderately deep then bedrock could be a limiting factor if excavation is planned. If construction is proposed in this area, then blasting could be required; however, the blast rock remnants typically create high value road building materials since it is resistant to erosion and impacts from large vehicle traffic. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.



Map Unit:

Marlow/Peru Complex

Classification:

Marlow: Coarse-loamy, isotic, frigid, Oxyaquic Haplorthods Peru: Coarse-loamy, isotic, frigid, Aquic Haplorthods MpA, MpB

Map Unit Symbol:

SETTING Parent Material: Landform:

Lodgement till Ground moraines, hills and mountains Position in Landscape: Hill summits and sideslope Slope Gradient Range: (A) 0-3%, (B) 3-8%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: Marlow: >40" Peru: 16-40"

Typical Profile Description:

Marlow:

Surface Layers:

0 - 3" Black, mucky peat

3 – 6" Dark reddish gray, very gravelly fine sandy loam, sbk, VFR

6 – 8" Pinkish gray, very gravelly fine sandy loam, sbk, VFR

8 – 11" Strong brown, very gravelly fine sandy loam, sbk, VFR

11 - 20" Strong brown, extremely gravelly fine sandy loam, sbk, VFR

Subsurface Layers:

20 - 24" Dark yellowish brown, extremely gravelly fine sandy loam, sbk, FR

- Substratum:
 - 24 39" Dark yellowish brown, extremely gravelly fine sandy loam I, FR
 - 39 40" Lodgment till, m, FI

Peru:

Surface Layers:

- 0 2"Black, mucky peat
- 2 4" Pinkish gray, fine sandy loam, sbk, VFR
- 4 6" Reddish brown, fine sandy loam, sbk, VFR
- Subsurface Layers:
 - 6-14" Brown, fine sandy loam, sbk, FR
 - 14 24" Dark yellowish brown, fine sandy loam, sbk, FR

Substratum:

24 - 30" Olive brown, m, VFI

Redox. Con. strong brown 2%

30 - 32" Lodgment till, m, VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar: Chesuncook **Dissimilar:** Brayton, Tunbridge



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USE AND MANAGEMENT

This map unit is mapped in forested areas on sideslopes and hill summits throughout the site. Major use and management concerns are that Peru and Marlow soils are both very deep to bedrock yet occur on dense till. This can create a seasonal high-water table at or close to the mineral soil surface, particularly in Peru soils. So, activities impacted by a high-water table, such as road construction, could require additional engineering. These soils can be compacted if exposed to heavy equipment however the potential for rutting is moderate, which is less severe than most other soils mapped within the Project area. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of adjacent and off-site resources. Phases of this soil included within the map unit are areas with a very stony surface and very stony subsurface layers.

Monarda_silt loam

Classification:Loamy, mixed, active, acid, frigid, shallow Aeric EndoaqueptsMap Unit Symbol:MoA, MoC

<u>SETTING</u>

Map Unit:

Parent Material:Monarda: Lodgement tillLandform:Nearly level and depressions in glaciated landscapePosition in Landscape:Lower positions in landscape, bases of long slopes, swales and depressionsSlope Gradient Range:(A) 0-3%, (C) 8-15%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 0" Typical Profile Description: Surface Layers:

0 – 4" Black, mucky peat 4 – 11" Dark grayish brown, silt loam, sbk, FR Redox Con. dark yellowish brown 2%

Subsurface Layers:

11 – 21" Dark grayish brown, silt loam, pl, Fl Redox Con. dark yellowish brown 20%

21 – 31" Dark yellowish brown, gravelly sandy loam, m, Fl

Substratum:

31 – 34" Lodgement till, m VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Biddeford/Scantic Complex
Dissimilar:	Telos/Chesuncook Complex

USE AND MANAGEMENT

This map unit is mapped in wetland areas across the site. Major use and management concerns are that Monarda soils are hydric, so most areas mapped as Monarda are wetlands, and as such, impacts to these areas could require regulatory oversight. Monarda soils are very deep to bedrock yet shallow to dense till which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads, could require additional engineering. They may also incur ponding due to their landscape location. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Thick organic surface layers can lead to instability. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources. Some areas may have a very stony surface and/or subsurface profiles.



Peacham fine sandy loam

Map Unit: Classification: Loamy, mixed, superactive, nonacid, frigid, shallow Histic Humaquespts Map Unit Symbol: PeA

SETTING

Parent Material: Organic material over loamy lodgement till Landform: Ground moraines Position in Landscape: Depressions and on toeslopes Slope Gradient Range: (A) 0-3%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 0' **Typical Profile Description:** Surface Layers: $0 - 2\overline{0^{"}}$ Black, muck Subsurface Layers: 20 - 24" Gray, fine sandy loam, ma, FI Redox Con. dark yellowish brown 10%

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit) Similar: Biddeford, Monarda **Dissimilar:** Peru, Telos

USE AND MANAGEMENT

This map unit is mapped in wetland areas within the panel array. Major use and management concerns are that Peacham soils are hydric, so most areas mapped as Peacham are wetlands, and as such, impacts to these areas could require regulatory oversight. These soils have a seasonal high-water table at or close to the soil surface, so activities impacted by a high-water table, such as roads, could require additional engineering. Peacham soils have a think organic horizon. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Thick organic surface layers can lead to instability. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.



Map Unit:

Peacham/Brayton Complex

Classification:

Map Unit Symbol:

Peacham: Loamy, mixed, superactive, nonacid, frigid, shallow Histic Humaquespts **Brayton:** Loamy, mixed, active, nonacid, frigid, shallow Aeric Endoaquepts PbA, PbC

SETTING

Parent Material:Lodgement till and organic material over loamy lodgement tillLandform:Ground morainesPosition in Landscape:Depressions and on toeslopesSlope Gradient Range:(A) 0-3%, (C) 8-15%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: 0" Typical Profile Description: Peacham: <u>Surface Layers:</u> 0 – 20" Black, muck <u>Subsurface Layers:</u> 20 – 24" Gray, fine sandy loam, ma, Fl Redox Con. dark yellowish brown 10%

Brayton:

Surface Layers:

0 - 5" Black, muck; very stony
5 - 9" Gray, very stony sandy loam, sbk, FR Redox Con. dark yellowish brown 5%
9 - 14" Olive gray, very stony sandy loam, sbk, FR Redox Con. dark yellowish brown 5%

Subsurface Layers:

 14 – 24" Light olive brown, very stony sandy loam, pl, Fl Redox Con. dark yellowish brown 5%
 24 – 26" Light olive brown, stony sandy loam, m, Fl Redox Con. strong brown 30%

Substratum:

26" Lodgment till, m, VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)Similar:Biddeford, MonardaDissimilar:Peru, Telos

USE AND MANAGEMENT

This map unit is mapped in wetland areas across the site. Major use and management concerns are that Peacham and Brayton soils are hydric, so most areas mapped as Peacham/Brayton Complex are wetlands, and as such, impacts to these areas could require regulatory oversight. Brayton soils are very deep to bedrock yet shallow to dense till which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities



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impacted by a high-water table, such as foundations and roads, could require additional engineering. Peacham soils have a think organic horizon. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Thick organic surface layers can lead to instability. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.

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Map Unit: Peru/Colonel Complex

Classification:

Peru: Coarse-loamy, isotic, frigid, Aquic Haplorthods **Colonel:** Loamy, isotic, frigid, shallow Aquic Haplorthods PcA, PcB, PcC, PcD

Map Unit Symbol:

SETTINGParent Material:Lodgement tillLandform:Ground moraines, hills and mountainsPosition in Landscape:Hill summits, sideslope, foot slope, and base slopeSlope Gradient Range:(A) 0-3%, (B) 3-8%, (C) 8-15%, (D) 15-35%

COMPOSITION AND SOIL CHARACTERISTICS Depth to Water Table: Peru: 16-40"

Peru: 16-40" Colonel: 8-16"

Typical Profile Description:

Peru:

Surface Layers:

- 0 2" Black, mucky peat
- 2-4" Pinkish gray, fine sandy loam, sbk, VFR
- 4 6" Reddish brown, fine sandy loam, sbk, VFR

Subsurface Layers:

- 6-14" Brown, fine sandy loam, sbk, FR
- 14 24" Dark yellowish brown, fine sandy loam, sbk, FR
- Substratum:
 - 24 30" Olive brown, m, VFI
 - Redox. Con. strong brown 2%
 - 30 32" Lodgment till, m, VFI

Colonel:

- Surface Layers:
 - 0 3" Black, muck; stony
 - 3 9" Gray, stony sandy loam, sbk, VFR
 - 9 14" Olive gray, stony sandy loam, sbk, FR
- Subsurface Layers:
 - 14 24" Light olive brown, sandy loam, pl, FR

Redox Con. dark yellowish brown 5%

- 24 26" Light olive brown, sandy loam, m, FI
 - Redox. Con. strong brown 10%

Substratum:

26" Lodgment till, m, VFI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Marlow, Chesuncook
Dissimilar:	Brayton, Tunbridge



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USE AND MANAGEMENT

This map unit is mapped in forested areas on toeslopes, sideslopes and some low-lying areas throughout the site. They are typically in hummocky settings creating a complex of interspersed pits and mounds where there are more mounds (moderately well drained) than pits (somewhat poorly drained). Major use and management concerns are that Peru and Colonel soils are both very deep to bedrock yet shallow to dense till. This can create a seasonal highwater table at or close to the mineral soil surface, so activities impacted by a high-water table, such as road construction, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Avoidance of these area is less of a concern than in the Colonel/Peru Complex. Accepted construction techniques such as matting to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of adjacent and off-site resources. Phases of this soil included within the map unit are areas with a very stony surface and very stony subsurface layers.

Map Unit: Classification:

Peru/Marlow Complex

Classification:	Peru: Coarse-loamy, isotic, frigid, Aquic Haplorthods
	Marlow: Coarse-loamy, isotic, frigid, Oxyaquic Haplorthods
Map Unit Symbol:	PmB, PmC, PmD

<u>SETTING</u>

Parent Material:Lodgement tillLandform:Ground moraines, hills and mountainsPosition in Landscape:Hill summits, sideslope, foot slope, and base slopeSlope Gradient Range:(B) 3-8%, (C) 8-15%, (D) 15-35%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: Peru: 16-40" Marlow: >40"

Typical Profile Description:

Peru:

Surface Layers:

- 0 2" Black, mucky peat
- 2 4" Pinkish gray, fine sandy loam, sbk, VFR
- 4 6" Reddish brown, fine sandy loam, sbk, VFR
- Subsurface Layers:
 - 6 14" Brown, fine sandy loam, sbk, FR
 - 14 24" Dark yellowish brown, fine sandy loam, sbk, FR
- Substratum:
 - 24 30" Olive brown, m, VFI
 - Redox. Con. strong brown 2%
 - 30 32" Lodgment till, m, VFI

Marlow:

Surface Layers:

- 0-3" Black, mucky peat
- 3 6" Dark reddish gray, very gravelly fine sandy loam, sbk, VFR
- 6 8" Pinkish gray, very gravelly fine sandy loam, sbk, VFR
- 8-11" Strong brown, very gravelly fine sandy loam, sbk, VFR
- 11 20" Strong brown, extremely gravelly fine sandy loam, sbk, VFR

Subsurface Layers:

20-24" Dark yellowish brown, extremely gravelly fine sandy loam, sbk, FR <u>Substratum:</u>

24 - 39" Dark yellowish brown, extremely gravelly fine sandy loam I, FR

39 – 40" Lodgment till, m, FI

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Chesuncook, Colonel	
Dissimilar:	Brayton, Tunbridge	



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USE AND MANAGEMENT

This map unit is mapped in forested areas on sideslopes and hill summits throughout the site. Major use and management concerns are that Peru and Marlow soils are both very deep to bedrock yet occur on dense till. This can create a seasonal high-water table at or close to the mineral soil surface, particularly in Peru soils. So, activities impacted by a high-water table, such as road construction, could require additional engineering. These soils can be compacted if exposed to heavy equipment however the potential for rutting is moderate, which is less severe than most other soils mapped within the Project area. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of adjacent and off-site resources. Phases of this soil included within the map unit are areas with a very stony surface and very stony subsurface layers.

Scantic silt loam

Classification:Fine, illitic, nonacid, frigid Typic EpiaqueptsMap Unit Symbol:ScA, ScB

<u>SETTING</u>

Map Unit:

Parent Material:Glaciolacustrine or glaciomarine depositsLandform:Nearly level and depressional areasPosition in Landscape:Coastal lowlands and river valleysSlope Gradient Range:(A) 0-3%, (B) 3-8%COMPOSITION AND SOIL CHARACTERISTICSDepth to Water Table:0"Typical Profile Description:Surface Layers:0 - 3"0 - 3"8 - 10"Grayish olive, silty clay loam, m, FI

Subsurface Layers:

10 – 15" Grayish olive, silty clay loam, m, VFI Redox Con. dark yellowish brown 10%

See Table 1
See Table 1

INCLUSIONS (within mapping unit)

Similar:Biddeford/Scantic ComplexDissimilar:Peru/Marlow Complex

USE AND MANAGEMENT

This map unit is mapped in wetland areas along the transmission line. Major use and management concerns are that Scantic soils are hydric, so most areas mapped as Scantic silt loam are wetlands, and as such, impacts to these areas could require regulatory oversight. Scantic soils are very deep to bedrock yet shallow to dense substratum which typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads could require additional engineering. They may also incur ponding due to their landscape location. The NRCS data lists the flooding potential as none, however, since some are mapped along streams they may flood at times of high water. These soils can be compacted if exposed to heavy equipment when wet and are easily ruttable so equipment limitations may be severe. Thick organic surface layers can lead to instability. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.



Map Unit: Scantic silt loam, moderately deep

Classification:Fine, illitic, nonacid, frigid Typic EpiaqueptsMap Unit Symbol:SrA, SrD

<u>SETTING</u>

Parent Material: Glaciolacustrine or glaciomarine deposits Landform: Nearly level and depressional areas Position in Landscape: Coastal lowlands and river valleys Slope Gradient Range: (A) 0-3%, (D) 15-35% COMPOSITION AND SOIL CHARACTERISTICS Depth to Water Table: 0″ Typical Profile Description: Surface Layers: 0 – 3" Black, mucky peat 3 - 10" Grayish olive, silty clay loam, m, FI Subsurface Layers: 10 - 15" Grayish olive, silty clay loam, m, VFI Redox Con. dark yellowish brown 10% 15″ Bedrock

Hydrologic Soil Group (HSG):	See Table 1
Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:Biddeford/Scantic ComplexDissimilar:Peru/Marlow Complex

USE AND MANAGEMENT

This map unit is mapped along wetlands south of Bog Road in the transmission line. Major use and management concerns are that these Scantic soils are only moderately deep to bedrock and on steep sideslopes. This typically creates a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as foundations and roads could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet and are easily ruttable so equipment limitations may be severe. The steep slope can also be concern for access and erodibility if these soils are exposed. Avoidance of these area is the preferred method of planning activities around these soils. Accepted construction techniques such as matting or bridging to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of wetlands and other adjacent resources.



Map Unit: Classification:	Telos/Chesuncook Complex Telos: Loamy, isotic, frigid, shallow Aquic Haplorthods	
Map Unit Symbol:	Chesuncook: Coarse-loamy, isotic, frigid Aquic Haplorthods TcB, TcC, TcD	
<u>SETTING</u> Parent Material: Landform: Position in Landscape: Slope Gradient Range:	Lodgment glacial till Upland till plains, hills and ridges Telos: Lower on landscape, toe-slope Chesuncook: Sideslopes (B) 3-8%, (C) 8-15%, (D) 15-35%,	
COMPOSITION AND SO		
Depth to Water Table:		
Typical Profile Descripti	Chesuncook: 16-28"	
Telos:		
Surface Layers:		
	own, silt loam, sbk VFR	
7 – 14" Dark oli Subsurface Layers:	ve brown, silt loam, sbk, FR	
	ve brown, silt loam, sbk, FR	
16 – 23" Light oli	ve brown, silt loam, sbk, FR	
Redox Con. dark yellowish brown 20%		
Redox Dep. olive gray 5%,		
Substratum: 23 – 52" Light oli	ve brown silt loam m Fl	
23 – 52" Light olive brown, silt loam, m, Fl Redox Con. dark yellowish brown 20%		
Redox Dep. olive gray 15%		
Chesuncook:		
Surface Layers:		
0 – 6" Dark brown, loam, sbk VFR 6 – 15" Brown, loam, sbk VFR		
Subsurface Layers:		
	ve brown, very gravelly loam, sbk FR	
19 – 27" Olive, Io	bam, sbk FR	
	Con. dark yellowish brown 10%	
27 – 48" Olive br	own, silt loam, m, Fl	
	Redox Con. dark yellowish brown 10% Redox Dep. olive gray 5%	
Redux Dep. Olive glay 5%		
Hydrologic Soil Group (I	HSG): See Table 1	
Drainage Class:	See Table 1	
Depth to Bedrock:	See Table 1	

Drainage Class:	See Table 1
Depth to Bedrock:	See Table 1
Potential for Frost Action:	See Table 1
Saturated Hydraulic Conductivity (Ksat):	See Table 1
Concrete Corrosion:	See Table 1
Steel Corrosion:	See Table 1
Limitation to Fence Posts < 36" Deep:	See Table 1
Rutting Hazzard:	See Table 1
Flooding Potential:	See Table 1

INCLUSIONS (within mapping unit)

Similar:	Colonel/Peru
Dissimilar:	Monarda, Tunbridge

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USE AND MANAGEMENT

This map unit is mapped in forested areas, typically adjacent to wetlands and/or in low areas and along toeslopes throughout the site. They are typically in hummocky settings creating a complex of interspersed pits and mounds where there are more pits (somewhat poorly drained) than mounds (moderately well drained). Major use and management concerns are that Telos and Chesuncook soils are both very deep to bedrock yet shallow to dense till. This can create a seasonal high-water table at or close to the mineral soil surface, so activities impacted by a high-water table, such as road construction, could require additional engineering. These soils can be compacted if exposed to heavy equipment when wet so equipment limitations may be severe. Accepted construction techniques such as matting to minimize soil disturbance and compaction are recommended in these areas. Erosion and sediment controls should be installed prior to commencement of construction activities to avoid erosion and sedimentation of adjacent resources. Phases of this soil included within the map unit are areas with a very stony surface layers.

Map Unit: Tunbridge/Lyman Complex

Classification:	Tunbridge: Coarse-loamy, isotic, frigid Typic Haplorthods Lyman: Loamy, isotic, frigid Lithic Haplorthods
Map Unit Symbol:	TIB, TIC, TID
SETTING	
Parent Material:	Loamy supraglacial till
Landform:	Glaciated uplands
Position in Landscape:	Ridge summits and shoulders
Slope Gradient Range:	(B) 3-8%, (C) 8-15%, (D) 15-35%

COMPOSITION AND SOIL CHARACTERISTICS

Depth to Water Table: Tunbridge: 20 to <40" to bedrock with no water table **Lyman:** < 20" to bedrock with no water table

Typical Profile Description: Tunbridge:

- 0-3" Peat
- 3-5" Very dusky red, fine sandy loam, sbk, VFR
- 5-7" Gravish brown, fine sandy loam, sbk, VFR
- 7-13" Dark reddish brown, fine sandy loam, sbk, VFR
- 13 23" Dark brown, fine sandy loam, sbk, VFR
- 23 32" Dark yellowish brown, fine sandy loam, sbk, VFR
- 32" Bedrock

Lyman:

- 0-2" Peat
- 2 4" Very dusky red, fine sandy loam, sbk, VFR
- 4 7" Grayish brown, fine sandy loam, sbk, VFR
- 7 13" Dark reddish brown, fine sandy loam, sbk, VFR
- 13 17" Dark brown, fine sandy loam, sbk, VFR
- 17" Bedrock

Drainage Class:See Table 1Depth to Bedrock:See Table 1Potential for Frost Action:See Table 1Saturated Hydraulic Conductivity (Ksat):See Table 1Concrete Corrosion:See Table 1
Potential for Frost Action:See Table 1Saturated Hydraulic Conductivity (Ksat):See Table 1
Saturated Hydraulic Conductivity (Ksat): See Table 1
Concrete Corrosion: See Table 1
Steel Corrosion: See Table 1
Limitation to Fence Posts < 36" Deep: See Table 1
Rutting Hazzard: See Table 1
Flooding Potential: See Table 1

INCLUSIONS (within mapping unit)

Similar: Abram Dissimilar: Lyme

USE AND MANAGEMENT

This map unit is mapped within the panel array and transmission line on small ridge summits and shoulders. The transition from exposed bedrock outcrops to moderately deep soil is rapid and the pattern complex; with the dominant depth to bedrock being moderately deep. Since these soils are shallow to moderately deep then depth to bedrock could be a limiting factor if excavation is planned. If construction is proposed in this area, then blasting may be required; however, the blast rock remnants typically creates high value road building materials since it is resistant to erosion and impacts from large vehicle traffic. These soils are susceptible to erosion so disturbance should be minimized by the use of erosion control devices and sediment controls should be installed prior to work downslope of these areas to avoid sedimentation of wetlands or off-site areas.



Appendix D MAPSS STANDARDS FOR SOIL SURVEYS

CLASS B (HIGH INTENSITY) SOIL SURVEY

- 1. Map units will not contain dissimilar limiting individual inclusions larger than one acre. Dissimilar limiting inclusions may total more than one acre per map unit delineation, in the aggregate, if not continuous.
- 2. Scale of 1-inch equals 200 feet or larger (e.g., 1" = 100').
- 3. Ground control—test pits for which detailed data is recorded are located by means of compass by chaining, pacing, or taping from known survey points or other methods of equal or greater accuracy.
- 4. Base map with 5-foot contour lines.

CLASS C (MEDIUM HIGH INTENSITY) SOIL SURVEY

- 1. Map units will not contain dissimilar limiting individual inclusions larger than five acres. Dissimilar limiting inclusions may total more than five acres per map unit delineation, in the aggregate, if not continuous.
- 2. Scale of 1-inch equals 500 feet or larger (e.g., 1'' = 400').
- 3. Ground control as determined by mapper.
- 4. Base map as determined by mapper.

CLASS L SOIL SURVEY (FOR LINEAR PROJECTS)

This standard is designed to provide the minimum soil information necessary to allow for the design and construction of long but narrow projects with little or no adjacent development. Class L map units shall be made on the basis of parent material, slope, soil texture, soil depth to dense till or bedrock and soil drainage at the Class A High Intensity map unit size.

- 1. Map units will not contain dissimilar, limiting, individual inclusions larger than 1/8 acre. Dissimilar, limiting inclusions may total more than 1/8 acre per map unit delineation, in the aggregate, if not contiguous.
- 2. Scale of 1-inch equals 100 feet or larger (e.g., 1" = 50')
- 3. Ground control base line and test pits for which detailed data are recorded are located to submeter accuracy under the direction of a qualified professional.
- 4. Base map with two-foot contour lines.



Appendix E GLOSSARY



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Glossary

Complex: Two or more dissimilar major components that occur in a regularly repeating pattern or in an unpredictable pattern.

Limiting Dissimilar Soil: Generally, map unit delineations contain soils other than those identified in the map unit name. These minor soil components reduce the purity of the soil map unit. Minor components that most detract from purity because they are the most dissimilar to the mapped name and are the most limiting for use.

Soil Drainage Class:

- Excessively Drained: Soil depth is less than 25 cm (10 inches) to bedrock; or has a sandy or sandy-skeletal particle-size class with a loamy cap less than 25 cm (10 inches) thick.
- Somewhat Excessively Drained: Soil depth is 25 to 50 cm (10 to 20 inches) to bedrock with a loamy or loamy-skeletal particle-size class; or soil depth is 50 cm (20 inches) or greater to bedrock with a sandy or sandy-skeletal particle-size class with a loamy cap 25 cm (10 inches) thick or greater.
- Well Drained: Soil depth is at least 50 cm (20 inches) to bedrock and has a texture of loamy very fine sand or finer and redoximorphic features, if present, are 100 cm (40 inches) or more below the mineral soil surface.
- Moderately Well Drained: Has redoximorphic features at a depth of 40 cm (16 inches) to less than 100 cm (40 inches) below the mineral soil surface.
- Somewhat Poorly Drained: Is not VERY POORLY or POORLY DRAINED and has redoximorphic features at a depth of less than 40 cm (16 inches) below the mineral soil surface.
- Poorly Drained: Has dominant textures in the upper 50 cm (20 inches) (below the A-horizon if present) of loamy fine sand or coarser and has redoximorphic features within 18 cm (7 inches) of the mineral soil surface; or has dominant textures in the upper 50 cm (20 inches) (below the A-horizon if present) of loamy fine sand or coarser and has a Bh- or Bhs-horizon with value/chroma of 3/3 or less that begins within 18 cm (7 inches) of the mineral soil surface and is directly underlain by a horizon that has redoximorphic features; or has an A-horizon that is 18 cm (7 inches) thick or greater with value/chroma of 3/2 or less and a textures in all sub-horizonswithin 50 cm (20 inches) of the mineral soil surface of loamy fine sand or coarser and has redoximorphic features directly below the A-horizon; or has a depleted or gleyed matrix within 50 cm (20 inches) of the mineral soil surface and redox depletions with value of 4 or more and chroma of 2 or less in ped interiors that are less than 18 cm (7 inches) below the mineral soil surface; or has an A-horizon that is 18 cm (7 inches) thick or greater with solue (20 inches) and redox depletions with value of 3/2 or less and has a depleted or gleyed matrix within 50 cm (20 inches) of the mineral soil surface and redox depletions with value of 4 or more and chroma of 2 or less in ped interiors that are less than 18 cm (7 inches) below the mineral soil surface and has a depleted or gleyed matrix within 50 cm (20 inches) of the mineral soil surface and has a depleted or gleyed matrix within 50 cm (20 inches) of the mineral soil surface and has a depleted or gleyed matrix within 50 cm (20 inches) thick or greater with value/chroma of 3/2 or less and has a depleted or gleyed matrix within 50 cm (20 inches) of the mineral soils surface and has redox depletions with value of 4 or more and chroma of 2 or less in ped interiors or a depleted or gleyed matrix directly beneath the A-horizon.



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Soil Depth:

- Very Shallow: < 10 inches of mineral soil above bedrock
- Shallow: 10 to < 20 inches of mineral soil above bedrock
- Moderately Deep: 20 to <40 inches of mineral soil above bedrock
- Deep: 40 to <60 inches of mineral soil above bedrock
- Very Deep: >60 inches of mineral soil above bedrock

Soil Map Unit: Designed to efficiently deliver soil information to meet user needs for management and land use decisions. They can appear on maps as individual areas (i.e. polygon), points, or lines. They are a collection of areas defined and named the same in terms of their major soil components, miscellaneous areas, or both.

Soil Phase: These terms are added to a map unit component name to covey important information about a map unit and differentiate it from other map units on the map unit legend.

Soil Series: Represents a three-dimensional soil body having a unique combination of properties that distinguish it from neighboring series.