17.0 WASTEWATER

17.1 SITE PLAN

The sewage disposal system for the Project will be sited near the O&M building in a location with adequate soil drainage that is more than 100 ft from the water supply well. The proposed O&M site plan is included in the civil design plans for the Project in Exhibit 1-1.

17.2 WASTEWATER SOURCES

The solar array and electrical system will not produce wastewater. During construction, temporary facilities will be used by workers and serviced by a licensed wastewater transporter. During operation, the only potential wastewater generation would be from the proposed O&M building located south of the collection substation in Benton.

It is expected that the O&M building will provide services for up to 10 staff per day, resulting in wastewater generation of no more than 200 gallons per day. Wastewater generation will be limited to domestic quality wastewater (e.g., toilet, sink, shower). There will be no commercial or industrial wastewater generation associated with the Project.

17.2.1 Septic Design

The proposed septic design will be sited on suitable soils, as classified by the Maine Subsurface Wastewater Disposal Rules,10-144A CMR 241. According to the Maine Subsurface Wastewater Disposal Rules, the required minimum depths to seasonal groundwater table and bedrock for disposal fields located outside the shoreland zone is 9 inches. The proposed O&M building is not located within a shoreland zone, and no wetlands or streams were located in the proposed O&M building location. The mapped soil units within the vicinity of the proposed O&M building include Peru/Colonel Complex: 3-8% slopes, and Tunbridge/Lyman Complex: 8-15% slopes (see Section 11.0, Exhibit 11-1). Based on test pit data within these mapped soil units, the minimum depths to seasonal groundwater table and bedrock were 24 inches and 28 inches, respectively, both exceeding the minimum required depths. A field site evaluation will be conducted in the spring of 2022 to appropriately microsite the wastewater disposal system and complete an HHE-200 form and associated narrative.