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Preliminary Tier II Report

Centreville White Solar, LLC

November 8, 2024

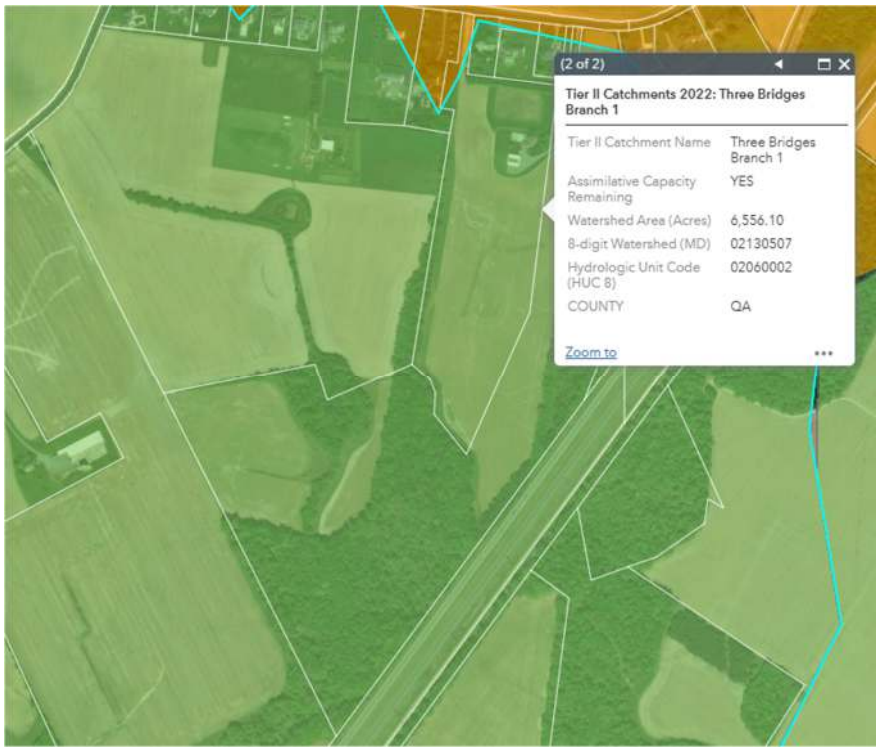
We believe this project is exempt from the "no-discharge alternatives analysis" for the following reasons:

1. Project overview – Proposed construction of a 2 MW AC community solar project and 2,200 feet of gravel access drive on an existing agricultural field. Community solar projects allow for generation of clean, renewable energy and are a priority of the State to meet the Clean Energy Jobs Act of 2019. More information about Community Solar can be found here: http://www.psc.state.md.us/electricity/community-solar-pilot-program/

Tax Map 36, Parcel 16 Address – 1220 White Marsh Road, Centreville, MD 21617

Total project footprint (limit of disturbance) = 16.84 ac.±

The site is in the drainage area of the Corsica River (02130507) and shown in the green catchment area shown on the MD Tier II High Quality Waters Map below indicating Assimilative Capacity Remaining.



2. **The project has location specific limitations:** The project is located on a property zoned Agricultural District (AG) and the community solar use has been permitted by Queen Anne's County Public Works Department and Planning Commission. The project site was selected based on the following criteria: first, the site has a sufficiently large cleared contiguous area, unbroken by preservation easements, forests, wetland, or other waterbodies on which solar cannot be located. Second, the existing forest and vegetation surrounding this cleared area provides an effective natural screen and buffer area from surrounding properties, roads, and abutting parcels, such that the solar project's visibility will have minimal impact on its neighbors. Third, the proposed site is located on a unique circuit (feeder #MD2293) connecting to Delmarva Power's Carville Substation. Both the circuit and the substation have sufficient remaining hosting capacity to serve a 2 MW community solar distributed generation system, which is unusual on the Eastern Shore.

The project is linked to a special state development incentive, as Maryland has set goals for clean energy: 50% of Maryland's electricity generation must come from renewable energy sources by 2030, which includes at least 14.5% from solar power by 2028.

In order to tie into existing infrastructure, the project needs to be located close to power lines with sufficient capacity to accept the generated energy (found adjacent to the nearby Route 301).

The project has little to no resource impact, and results in no forest or tree clearing. There are no proposed stream or buffer impacts. Regularly tilled agricultural land will be converted to meadow in the area of the array. Solar panels are not considered impervious areas per Chapter 702 of House Bill 1117.

3. The project will result in no impact to Tier II stream buffers or within 100 ft of regulated stream resource. A Wetland Delineation Report was prepared by Davis & Associates Environmental Consulting, LLC and while there are wetlands on the subject property, no wetlands, steams, or buffers are within the limit of disturbance. According to the Designated Use Classes for Maryland's Surface Waters, there are no existing regulated streams near the proposed project area. The Tier II Catchment Name is "Three Bridges Branch 1" for the subject property. The project has undergone review by Queen Anne's County and the work shown on the Environmental Site Design Plan has been approved.

4. The project will result in no loss of forest, additionally, no trees will be cleared. A 0.51-acre planting area containing 14 canopy trees, 57 evergreen trees, 61 understory trees, 14 deciduous shrubs, and 63 evergreen shrubs will be planted along the northern and western edge of the array, as well as in the northwest corner of the parcel to screen a proposed electrical equipment pad. There is also 33.9± acres of forested area on lots 3 and 14 that has been placed in a permanent Forest Conservation easement. Other than the proposed access roads, the areas within the fence under and in-between panels will be permanently vegetated and maintained as meadow.

5. The project will result in no net impervious increase as all proposed impervious areas will be treated by ESD practices, including non-rooftop disconnection and two proposed submerged gravel wetlands. A runoff analysis was conducted, and three study points were analyzed in the existing and proposed conditions. By converting tilled agricultural lands to meadow with all impervious areas treated by ESD practices, the effective curve number and runoff volume for each study point was reduced.

6. The project minimizes environmental impacts by meeting ESD, erosion and sediment control, and site landscaping as required by local ordinances.

Respectfully submitted,

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer *under the laws of the State of Maryland, License No.* 31400 *, Expiration Date:* 1-16-2025 .

Daniel Speakman, PE

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11/15/2024