JURISDICTIONAL DELINEATION REPORT

Janus Solar Project
Colusa County, California

February 11, 2021

RWE Solar Development, LLC
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<tr>
<td>BESS</td>
<td>battery energy storage system</td>
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<tr>
<td>CDFW</td>
<td>California Department of Fish and Wildlife</td>
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<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
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<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
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<td>FAC</td>
<td>Facultative</td>
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<td>FACU</td>
<td>Facultative Upland</td>
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<td>FACW</td>
<td>Facultative Wetland</td>
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<tr>
<td>GPS</td>
<td>Global Positioning System</td>
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<td>National Resources Conservation Service</td>
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<td>NWI</td>
<td>National Wetlands Inventory</td>
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<td>OBL</td>
<td>Obligate Wetland</td>
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<td>OHWM</td>
<td>ordinary high water mark</td>
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<td>Project</td>
<td>Janus Solar Project</td>
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<td>RWE</td>
<td>RWE Solar Development, LLC</td>
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<td>RWQCB</td>
<td>Regional Water Quality Control Board</td>
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<tr>
<td>trans</td>
<td>transition sampling point</td>
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<td>up</td>
<td>upland sampling point</td>
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<td>UPL</td>
<td>Upland</td>
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<td>U.S.</td>
<td>United States</td>
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<td>USACE</td>
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<td>USGS</td>
<td>U.S. Geological Survey</td>
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<tr>
<td>WDRs</td>
<td>waste discharge requirements</td>
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1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) prepared this jurisdictional delineation report for the proposed Janus Solar Project (Project). RWE Solar Development, LLC (RWE) proposes to develop approximately 986 acres of land (on three parcels that total 1,023.9 acres) located in Colusa County, California for the development of a solar energy facility (Figure 1).

The Project consists of constructing and operating a photovoltaic solar electricity generating facility, battery energy storage system (BESS), and associated infrastructure on privately-owned grazing and agricultural land. The Project would include the construction of a gen-tie to Cortina substation, an electrical substation, a BESS, and solar panel arrays. Project design details and components may be modified during finalization of the site plan.

Tetra Tech conducted a literature review and a jurisdictional delineation of the Project site. Biologists conducted the jurisdictional delineation in 2021 on any potential jurisdictional wetlands and waters of the United States (U.S.). Standing water, drainages, potential wetlands, and riparian areas that were found during the habitat characterization within the Project site in 2019 were evaluated (Tetra Tech 2020). The purpose of this jurisdictional delineation report is to:

- Summarize the methods and results of the delineation.
- Indicate jurisdictional areas covered under the U.S. Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and Regional Water Quality Control Board (RWQCB) criteria.
2.0 ENVIRONMENTAL SETTING

The Project site is located on privately-owned grazing and agricultural land in a rural area of Colusa County, California. The Project site is within the Colusa Basin Watershed in the Sacramento Valley, which drains into the Sacramento River at Knights Landing via the Colusa Basin Drain (Colusa County Resource Conservation District 2012). Spring Creek occurs adjacent to the Project site to the south and Salt Creek occurs approximately 1 mile north of the site. Both of these creeks converge and ultimately drain into the Colusa Basin Drain over 10 miles northeast of the Project site. Surface water connectivity on the Project site has been significantly disturbed by grazing and agricultural activities. The Project site is predominantly flat with low-slope rolling hills and the elevation range is approximately 44 to 101 meters. The Project site currently supports cattle grazing and grain cultivation. Vegetation on the Project site includes non-native grassland, cultivated grain fields, low growing herbaceous plants, and disturbed riparian areas and drainages with sparse native and non-native trees.
3.0 REGULATORY OVERVIEW AND DEFINITIONS

3.1 U.S. ARMY CORPS OF ENGINEERS

Section 404 of the Clean Water Act provides the U.S. Environmental Protection Agency (EPA) and the USACE regulatory and permitting authority over activities that result in the discharge of dredged or fill material into “navigable Waters of the U.S.” Section 502(7) of the Clean Water Act defines navigable waters as “Waters of the U.S., including territorial seas.” Section 328 of Chapter 33 in the Code of Federal Regulations (CFR) defines the term Waters of the U.S. as it applies to the jurisdictional limits of the authority of the USACE under the Clean Water Act. A summary of this definition of Waters of the U.S. in 33 CFR Section 328.3 includes (1) waters which are currently used, or were used in the past for commerce, or may be susceptible to use in interstate or foreign commerce, including all waters subject to tides; (2) interstate waters and wetlands; (3) Waters of the U.S. such as intrastate lakes, rivers, streams, and wetlands; (4) impoundments of waters; (5) tributaries of waters; (6) territorial seas; and (7) wetlands adjacent to waters (Federal Register 1986). Therefore, for the purpose of determining USACE jurisdiction under the Clean Water Act, “navigable waters” as defined in the Clean Water Act are the same as Waters of the U.S. defined in the CFR above. Waters of the U.S. have been most recently defined in the 2020 Navigable Waters Protection Rule, as described in Section 3.1.2 below.

The limits of USACE jurisdiction under Section 404 as defined in 33 CFR Section 328.4 are as follows: (a) Territorial seas: three nautical miles in a seaward direction from the baseline; (b) Tidal waters of the U.S.: high tide line or to the limit of adjacent non-tidal waters; (c) Non-tidal waters of the U.S.: ordinary high water mark (OHWM) or to the limit of adjacent wetlands; (d) Wetlands: to the limit of the wetland.

3.1.1 Section 404 Jurisdictional Wetlands

The USACE has defined the term “wetlands” as follows (33 CFR 328.3):

*Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.*

The three parameters that are used to determine the presence of wetlands are: (1) hydrophytic vegetation, (2) wetland hydrology, and (3) hydric soils. Evidence of a minimum of one positive wetland indicator from each of the three parameters must be found in order to make a positive wetland delineation (USACE 2008).

3.1.1.1 Vegetation

Hydrophytic vegetation is defined as areas where the frequency and duration of inundation or soil saturation exerts a controlling influence on the plant species present. Plant species are assigned wetland indicator status according to the probability of their occurrence in a wetland. More than fifty percent of the dominant plant species must have a wetland indicator status to meet the hydrophytic vegetation criterion. The USACE has published the *Arid West 2016 Regional Wetland Plant List* (2016) which separates vascular plants into the following categories based on plant species frequency of occurrence in wetlands:

- Obligate Wetland (OBL). Occur almost always (estimated probability >99%) under natural conditions in wetlands.
- Facultative Wetland (FACW). Usually occur in wetlands (estimated probability 67-99%), but occasionally found in non-wetlands.
- Facultative (FAC). Equally likely to occur in wetlands or non-wetlands (estimated probability 34-66%).
- Facultative Upland (FACU). Usually occur in non-wetlands (estimated probability 67-99%), but occasionally found in wetlands (estimated probability 1-33%).
- Obligate Upland (UPL). Occur almost always (estimated probability greater than 99%) under natural conditions in non-wetlands.

The USACE considers OBL, FACW, and FAC species to be indicators of a wetland. An area is considered to have hydrophytic vegetation when greater than 50 percent of the dominant species in each vegetative stratum (tree, shrub, and herb) fall within these categories. Any species not listed (NL) in the USACE wetland plant list is assumed to be an upland species, almost never occurring in wetlands.

A secondary hydrophytic vegetation identifier is a prevalence index of 3.0 or less. The prevalence index is a weighted-average wetland indicator status of all plant species at the sample point, where each indicator status category is given a numeric code (OBL=1, FACW=2, FAC=3, FACU=4, and UPL=5) and weighting is by abundance (percent cover). This method is a more comprehensive analysis of the hydrophytic status of the community than one based on just a few dominant species. The prevalence index is used as a supplement to determine whether hydrophytic vegetation is present on sites where indicators of hydric soil and wetland hydrology are present, but the vegetation initially fails the dominance test.

### 3.1.1.2 Hydrology

Wetland hydrology is inundation or soil saturation with a frequency and duration long enough to cause the development of hydric soils and plant communities dominated by hydrophytic vegetation. If direct observation of wetland hydrology is not possible (as in seasonal wetlands), or records of wetland hydrology are not available (such as stream gauges), assessment of wetland hydrology is frequently supported by indicators, such as watermarks, surface soil cracks, sediment deposits, or a high water table.

OHWM is a line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area.

### 3.1.1.3 Soils

Hydric soils are saturated or inundated for a sufficient duration during the growing season to develop anaerobic or reducing conditions that favor the growth and regeneration of hydrophytic vegetation. Field indicators of wetland soils include sulfidic odor, observations of ponding, inundation or saturation, dark (low chroma) soil colors, bright mottles (concentrations of oxidized minerals such as iron), or gleying, which indicates reducing conditions by a blue-grey color. Additional supporting information includes documentation of soil as hydric or reference to wet conditions in the local soil survey, both of which must be verified in the field.

Field indicators for hydric soils are particularly difficult to observe in sandy soils, which are often recently deposited soils of floodplains. These soils usually lack sufficient fines (clay and silt) and organic material to allow use of color as a reliable indicator of hydric soil. Hydric soil indicators in sandy soils include accumulations of organic matter, and organic pan.

### 3.1.2 Section 404 Jurisdictional Waters of the U.S.

In October 2019, the EPA and the Department of the Army published a final rule to repeal the 2015 Clean Water Rule and restore the regulatory text that existed prior to the Clean Water Rule, which became
effective on December 23, 2019. In April 2020, the EPA and the Department of the Army published the Navigable Waters Protection Rule in the Federal Register to finalize a revised definition of Waters of the U.S. under the Clean Water Act, which became effective on June 22, 2020. The Navigable Waters Protection Rule regulates navigable waters and the core tributary systems that provide perennial or intermittent flow into them. In accordance with the 2020 Navigable Waters Protection Rule, four categories of jurisdictional waters are considered Waters of the U.S. and are federally regulated:

- The territorial seas and traditional navigable waters.
  - Includes large rivers and lakes and tidally-influenced waterbodies used in interstate or foreign commerce.
- Perennial and intermittent tributaries to those waters.
  - Must contribute surface flow to navigable waters in a typical year (excludes ephemeral streams that have surface flow only after a precipitation event).
- Certain lakes, ponds, and impoundments.
  - Must contribute surface flow to navigable waters in a typical year.
- Wetlands physically or hydrologically adjacent to jurisdictional waters.

USACE jurisdiction of Waters of the U.S. in non-tidal areas extends to the OHWM, as defined above.

### 3.1.3 Areas Exempt from Section 404 Jurisdiction

The 2020 Navigable Waters Protection Rule details 12 categories of exclusions (i.e., features that are not Waters of the U.S.), such as features that only contain water in direct response to rainfall (e.g., ephemeral features), groundwater, many ditches, prior converted cropland, and waste treatment systems. The final rule also clarifies key elements related to the scope of Federal Clean Water Act jurisdiction, including:

- Providing clarity and consistency by removing the proposed separate categories for jurisdictional ditches and impoundments.
- Refining the proposed definition of “typical year,” which provides important regional and temporal flexibility and ensures jurisdiction is being accurately determined in times that are not too wet and not too dry.
- Defining “adjacent wetlands” as wetlands that are meaningfully connected to other jurisdictional waters, for example, by directly abutting or having regular surface water communication with jurisdictional waters.

### 3.2 REGIONAL WATER QUALITY CONTROL BOARD

The Dickey Water Pollution Act of 1949 and Porter-Cologne Water Quality Control Act of 1969 (Porter-Cologne) established the State Water Resources Control Board (SWRCB) and nine Regional Water Quality Control Boards (RWQCBs) in California. The SWRCB and each RWQCB regulate activities in Waters of the State which include Waters of the U.S. “Waters of the State” are defined by the Porter-Cologne Act as “any surface water or groundwater, including saline waters, within the boundaries of the state.”

The SWRCB/RWQCB regulates the “discharge of waste,” including discharges of fill and dredged material, into Waters of the State. All parties proposing to discharge waste that could affect Waters of the State must file a report of waste discharge with the appropriate RWQCB. The RWQCB will then respond to the report of waste discharge by issuing waste discharge requirements (WDRs) in a public hearing, or by waiving WDRs (with or without conditions) for that proposed discharge.
Pursuant to Section 401 of the Clean Water Act, the SWRCB/RWQCB established the State Water Quality Certification Program. This program issues certifications for projects which propose to discharge fill or dredged material into Waters of the State. Water Quality Certification is necessary for all projects that require a USACE Section 404 permit, or fall under other federal jurisdiction, and have the potential to impact Waters of the State. A Water Quality Certification issued by the SWRCB/RWQCB certifies that project activities will not violate water quality standards individually or cumulatively over the term of the action. A Water Quality Certification must be consistent with the requirements of the Federal Clean Water Act, the California Environmental Quality Act, the California Endangered Species Act, and the Porter-Cologne Act.

If a proposed project or portion of a proposed project does not require a federal permit, but does involve dredge or fill activities that may result in a discharge to Waters of the State, the RWQCB has the option to regulate the dredge and fill activity under its state authority in the form of WDRs or Certification of WDRs. In these cases, a Water Quality Certification is not necessary under Section 401 of the Clean Water Act because federal jurisdiction does not apply.

The SWRCB has adopted the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Procedures), which became effective on May 28, 2020 (SWRCB 2019). The Procedures consist of the following four components: (1) a statewide wetland definition; (2) a framework for determining if a feature that meets the wetland definition is a Water of the State; (3) wetland delineation procedures; and (4) supplemental procedures for application submittal, and the review and approval of Water Quality Certifications, WDRs, and waivers of WDRs for dredge or fill activities, including the State Supplemental Dredge or Fill Guidelines (Appendix A of the Procedures). The Procedures define an area as a wetland as follows: an area is a wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area’s vegetation is dominated by hydrophytes or the area lacks vegetation. This definition does not affect the meaning of Waters of the State as it pertains to SWRCB/RWQCB jurisdiction pursuant to the Porter-Cologne Act, nor does it modify the current authorities of the SWRCB/RWQCB to protect water quality.

### 3.2.1 Waters of the State

The SWRCB Procedures consider natural wetlands, wetlands created by modification of surface Waters of the State, and areas that meet the current or historic definitions of Waters of the U.S., to be Waters of the State (SWRCB 2019). In addition, the Procedures considers artificial wetlands (i.e., wetlands that result from human activity) that meet specific criteria to be Waters of the State (SWRCB 2019). The Procedures incorporate the established wetland delineation procedures set forth by the USACE (USACE 2008). However, contrary to the USACE wetland definition, the State's wetland delineation also protects non-vegetated wetlands. The methods used to determine potential Waters of the State were the same as those described above for potential Section 404 jurisdiction.

### 3.2.2 Areas Exempt from State Jurisdiction

Unlike federal regulations, dredging, filling, or excavation within isolated wetlands and Waters of the U.S. constitutes a discharge to Waters of the State, and prospective discharges are required to submit a report of waste discharge to the RWQCB to comply with requirements of the Porter-Cologne Act. The wetland delineation method outlined by the USACE (USACE 2008) has been utilized to map wetlands subject to SWRCB and RWQCB jurisdiction.

Areas exempt from SWRCB/RWQCB jurisdiction include all artificial wetlands that are less than 1 acre in size and do not satisfy the following criteria: (1) created by modification of a surface Water of the State; (2) approved by an agency as compensatory mitigation for impacts to other Waters of the State, except where the approving agency explicitly identifies the mitigation as being of limited duration; (3) specifically identified in a water quality control plan as a wetland or other Water of the State; or (4) resulted from historic human
activity, is not subject to ongoing operation and maintenance, and has become a relatively permanent part of the natural landscape. In addition, artificial wetlands greater than or equal to one acre in size are exempt from SWRCB/RWQCB jurisdiction if the artificial wetland was constructed, and is currently used and maintained, primarily for one or more of the following purposes: (1) industrial or municipal wastewater treatment or disposal; (2) settling of sediment; (3) detention, retention, infiltration, or treatment of stormwater runoff and other pollutants or runoff subject to regulation under a municipal, construction, or industrial stormwater permitting program; (4) treatment of surface waters; (5) agricultural crop irrigation or stock watering; (6) fire suppression; (7) industrial processing or cooling; (8) active surface mining – even if the site is managed for interim wetlands functions and values; (9) log storage; (10) treatment, storage, or distribution of recycled water; (11) maximizing groundwater recharge (this does not include wetlands that have incidental groundwater recharge benefits); or (12) fields flooded for rice growing.

3.3 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

The CDFW is responsible for conserving, protecting, and managing California’s fish, wildlife, and native plant resources. Streams and lakes, as habitat for fish, wildlife, and native plant species, are subject to jurisdiction by CDFW under Sections 1600-1616 of the State Fish and Game Code. Fish and Game Code Section 1602 requires any person, state or local governmental agency, or public utility to notify CDFW before beginning any activity that will do one or more of the following: (1) substantially obstruct or divert the natural flow of a river, stream, or lake; (2) substantially change or use any material from the bed, channel, or bank of a river, stream, or lake; or (3) deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into a river, stream, or lake. These regulated activities require a 1602 Lake and Streambed Alteration Agreement from CDFW. Removal of riparian vegetation also requires a Section 1602 Lake and Streambed Alteration Agreement.

The Fish and Game Code, Sections 1600-1616, regulates activities that would alter the flow, bed, banks, channel, or associated riparian areas of a river, stream, or lake. CDFW jurisdiction over lakes and streams is to the top of bank, or edge of riparian vegetation as determined by edge of dripline, whichever is further (CDFW 1994).
4.0 JURISDICTIONAL DELINEATION METHODS

Prior to the field survey, a literature review was conducted to evaluate the potential jurisdictional areas within the Project site and a 150-meter buffer. Biologists reviewed the U.S. Geological Survey (USGS) 7.5-Minute Topographic Map Salt Canyon Quadrangle, aerial and historical imagery (Google Earth®), the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) database (USFWS 2021), and the U.S. Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Web Soil Survey (USDA NRCS 2021).

A jurisdictional delineation was performed within the Project site from January 18 to 21, 2021. The delineation was conducted at any potential jurisdictional wetlands and waters of the U.S. and State, and areas potentially under CDFW jurisdiction, particularly the standing water, drainages, potential wetlands, and riparian areas that were found within the Project site in 2019 (Tetra Tech 2020). The USACE has developed standard methods and data reporting forms contained in the Interim Regional Supplement to the Corps of Engineering Wetland Delineation Manual: Arid West Region (USACE 2008), a supplement to the Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987), to determine the presence or absence of wetlands and Waters of the U.S. The procedures described in the Interim Regional Supplement to the Corps of Engineering Wetland Delineation Manual: Arid West Region were used to identify wetlands and Waters of the U.S. in the project site that are potentially subject to regulation under Section 404 of the Clean Water Act. The potential jurisdictional features were also examined for an OHWM. This delineation methodology was also used to evaluate potential Waters of the State under RWQCB jurisdiction (SWRCB 2019). Areas of CDFW jurisdiction were determined by the presence of a defined bed, bank, and channel, or presence of a lake or pool, and were measured to the top of bank or the edge of riparian vegetation.

Sample points were taken to determine areas of potential jurisdiction and were mapped in the field using an Eos Arrow 100 Global Positioning System (GPS) receiver with sub-meter accuracy. Field indicators were examined, and wetland data reporting forms were used to record three parameters: hydrophytic vegetation, wetland hydrology, and hydric soils. Completed wetland data forms are provided in Appendix A. Photographs taken during the field survey are provided in Appendix B.

Plant species present and the presence or absence of hydrophytic vegetation was recorded. Hydrophytic vegetation was determined to be present if greater than 50 percent of the dominant species at the sample point were OBL, FACW, or FAC (USACE 2016). If the hydrophytic vegetation dominance test was not greater than 50 percent, then the prevalence index was conducted. If the prevalence index was less than or equal to 3.0 then the vegetation was considered hydrophytic.

Soil pits were excavated to a depth of 10-18 inches to examine soils for evidence of hydric indicators and to determine the extent of soil saturation at the sample points. Soil pit locations are synonymous with sample points and were chosen where one or more of the parameters appeared to change. The top 10-18 inches of the soil profile was examined for indicators of hydric soil. At some sample points, the presence of a restrictive rock or compacted soil layer limited the maximum pit depth that could be excavated. Hydric soils were determined based on the presence of one or more of the hydric soil indicators.

At each sample point, indicators of wetland hydrology were examined. Indicators for wetland hydrology include surface water, saturation, high water table, surface soil cracks, sediment deposits, oxidized rhizospheres along living roots, biotic crust, etc.

Sample points were collected for each potential jurisdictional feature when a change in any of the three wetland parameters occurred. Sample points were collected within the feature and in associated upland areas to compare these areas and determine the extent of the feature. Transitional sample points were also collected in areas where change was suspected but additional data was required.
A sample point was considered to be within a USACE wetland if the area met all three wetland parameters. If one or more of these parameters was not met in a typical situation, the point was considered to not be within a USACE wetland. Conversely, atypical situations are wetlands in which vegetation, soil, or hydrology indicators are absent due to recent human activities or natural events. In atypical situations, all three parameters are not required to be considered a USACE wetland.
5.0 RESULTS

5.1 LITERATURE REVIEW

The Project site does not contain blue-line streams on the USGS topographic map, which are defined as perennial or ephemeral flowing waters in a low area or channel on the land surface. Blue-line streams are shown as broken or solid blue or purple lines on the USGS topographic map. One blue-line stream, Spring Creek, occurs directly south of the Project site and Salt Creek occurs approximately 1 mile north of the site. Mountains, canyons, and ridgelines are absent from the Project site but minor changes in elevation and low-slope rolling hills are present in the site. The NWI database was reviewed for potential wetland areas prior to the field survey. Multiple areas are mapped within the Project site in the NWI database, including a freshwater emergent wetland, freshwater forested/shrub wetlands, and riverine areas (USFWS 2021). These areas were assessed during the jurisdictional delineation since the NWI data is not field verified.

Soils mapped by the USDA NRCS at the sample point locations include Ayar clay, Clear Lake clay, Capay clay loam, and Corning clay loam (USDA NRCS 2021). Hydric soils have been documented by the USDA NRCS in the Ayar clay, Clear Lake clay, and Corning clay loam map units at approximately 1 percent of each unit, and in the Capay clay loam map unit at approximately 3 percent of the unit (USDA NRCS 2021). The presence of hydric soils was assessed during the jurisdictional delineation.

5.2 JURISDICTIONAL DELINEATION

Ten potential jurisdictional features were found within the Project site (Figure 2 and Figure 3 Sheets 1-5). All features within the Project site are disturbed by active cattle grazing or agriculture. Features 1 and 3 are ephemeral drainages that had a defined bed, bank, and channel. Feature 1 had standing water and riparian vegetation within the channel in some areas, which consisted of low cover of red willow (Salix laevigata), Fremont cottonwood (Populus fremontii), cattail (Typha sp.), and rush (Juncus sp.). Feature 3 did not have standing water but had a small area within the channel with low cover of Fremont cottonwood and rush. Portions of Features 1 and 3 are shown in the NWI database as riverine and portions are shown as freshwater forested/shrub wetland (USFWS 2021). These two features converge in the central portion of the Project site and may connect to Spring Creek offsite to the southeast. Feature 10 is a disturbed drainage that occurs within an active agricultural field and did not have a defined bed and bank. Low cover of red willow was found within this feature. Feature 10 is shown as a freshwater forested/shrub wetland in the NWI database (USFWS 2021). Feature 10 may connect to Salt Creek offsite to the north.

Features 2 and 9 are erosional features that did not have a defined bed and bank. No riparian vegetation was found in these features. Feature 2 connects to Feature 1 within the Project site and Feature 9 may have historically connected to Feature 4 but this connection was no longer evident. Feature 9 is shown in the NWI database as riverine but Feature 1 does not have NWI data (USFWS 2021). Features 4 and 8 are disturbed riparian areas that did not have a defined bed, bank, and channel. Feature 4 had riparian vegetation consisting of sparse Fremont cottonwood, red willow, Goodding’s black willow (Salix gooddingii), and dock (Rumex sp.). Feature 8 consisted of sparse red willow and FAC/FACW grasses including rye grass (Festuca Perennis) and canary grass (Phalaris sp.). Feature 4 is shown in the NWI database as freshwater forested/shrub wetland and Feature 8 is shown as riverine (USFWS 2021). Feature 4 may have historically connected to Spring Creek offsite to the southeast and Feature 8 may have historically connected to Salt Creek offsite to the north, but these connections are no longer evident.

Features 5 and 7 are depressional ponds where standing water was previously observed in 2019 (Tetra Tech 2020) and can be observed in aerial imagery. Feature 6 is a potential depressional area based on topography but water has not been observed in this area and it is not visible in aerial imagery. These
features ranged from low to moderate cover of FAC/FACW grasses including rye grass and canary grass. Feature 7 is shown in the NWI database as riverine but Features 5 and 6 do not have NWI data (USFWS 2021). Feature 7 may have historically connected to Feature 8, and Feature 5 may have historically connected to Feature 6 and Spring Creek offsite to the southeast, but soil berms adjacent to Features 5 and 7 have blocked the flow out of these areas. A jurisdictional delineation was conducted at each potential feature and the results are provided in Table 1.

### Table 1. Jurisdictional Delineation Results

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>Sample Point*</th>
<th>Hydrophytic Vegetation</th>
<th>Hydric Soil</th>
<th>Wetland Hydrology</th>
<th>USACE Wetlands / RWQCB Waters of the State</th>
<th>CDFW Jurisdiction</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 1</td>
<td>1-1a upland (up)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>[✓](portions of Feature 1)</td>
<td>✓</td>
<td>Drainage channel with a defined bed, bank, and channel. Top of bank width ranged from 1.5 to 9 meters and OHWM ranged from 1 to 6 meters.</td>
</tr>
<tr>
<td></td>
<td>1-1a wetland (wet)</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-1b up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-2a up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-2a wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-2b up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-3 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-4 wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-5 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-6 wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-7 wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-8 wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-9 wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-10 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature 2</td>
<td>2-1 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td>Erosional feature that did not have a defined bed and bank. Width was 2.5 to 4 meters.</td>
</tr>
<tr>
<td></td>
<td>1-2b up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature 3</td>
<td>3-1 up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td>✓</td>
<td>Drainage channel with a defined bed, bank, and channel. Top of bank width ranged from 2.5 to 6 meters and OHWM ranged from 0.5 to 1.5 meters.</td>
</tr>
<tr>
<td></td>
<td>3-1 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-2 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-3 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature 4</td>
<td>4-1 up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>Disturbed riparian area that did not have a defined bed, bank, or channel.</td>
</tr>
<tr>
<td></td>
<td>4-1 wet</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Feature 5</td>
<td>5-1 up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td><a href="transition">✓</a></td>
<td>✓</td>
<td>Depressional area, pond.</td>
</tr>
<tr>
<td></td>
<td>5-1 transition (trans)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5-1 wet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 1. Jurisdictional Delineation Results

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>Sample Point*</th>
<th>Hydrophytic Vegetation</th>
<th>Hydric Soil</th>
<th>Wetland Hydrology</th>
<th>USACE Wetlands / RWQCB Waters of the State</th>
<th>CDFW Jurisdiction</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 6</td>
<td>6-1 wet</td>
<td>Yes</td>
<td>-</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Potential depressional area.</td>
</tr>
<tr>
<td></td>
<td>5-1 up</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Feature 7</td>
<td>7-1 up</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Depressional area, pond.</td>
</tr>
<tr>
<td></td>
<td>7-1 trans</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7-1 wet</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Feature 8</td>
<td>8-1 wet</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Disturbed riparian area that did not have a defined bed, bank, or channel.</td>
</tr>
<tr>
<td></td>
<td>7-1 up</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Feature 9</td>
<td>9-1 wet</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Erosional feature that did not have a defined bed and bank. Width was 1 meter.</td>
</tr>
<tr>
<td></td>
<td>4-1 up</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Feature 10</td>
<td>10-1 up</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Disturbed drainage that did not have a defined bed and bank. Width was 5.5 meters.</td>
</tr>
<tr>
<td></td>
<td>10-1 wet</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Note: "-" = criteria not met.

Based on the results of the jurisdictional delineation, it was determined that portions of Feature 1 and the entirety of Features 5 and 7 were wetlands and met the criteria for jurisdiction as USACE Section 404 wetlands and RWQCB Waters of the State since all three USACE wetland parameters were met. In addition, all of Features 1, 3, 5, and 7 met the criteria for CDFW jurisdiction due to the presence of a defined bed, bank, and channel, or as a pond. Features 2, 4, 6, 8, 9, and 10 did not meet the criteria for jurisdiction under the USACE, RWQCB, or CDFW. The boundaries of non-jurisdictional features (i.e., purple areas in Figures 2 and 3 [Sheets 1-5]) represent centerlines or general areas of the features and are provided to show the locations where the jurisdictional delineation was conducted but were determined to not be jurisdictional.

Table 2 provides the acres of the jurisdictional areas. The results of the delineation in the context of the USACE, RWQCB, and CDFW are discussed in the sections below.

Table 2. Jurisdictional Areas

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>USACE Wetlands (acres)</th>
<th>RWQCB Waters of the State (acres)</th>
<th>CDFW Jurisdiction (acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 1</td>
<td>0.4</td>
<td>0.4</td>
<td>2.3</td>
</tr>
<tr>
<td>Feature 3</td>
<td>-</td>
<td>-</td>
<td>2.22</td>
</tr>
<tr>
<td>Feature 5</td>
<td>0.8</td>
<td>0.8</td>
<td>0.9</td>
</tr>
<tr>
<td>Feature 7</td>
<td>2.8</td>
<td>2.8</td>
<td>3.1</td>
</tr>
<tr>
<td>Total</td>
<td>4.0</td>
<td>4.0</td>
<td>8.52</td>
</tr>
</tbody>
</table>

Note: RWQCB Waters of the State include wetlands.
Figure 2: Wetland Delineation Overview
Figures 3: Wetland Delineation Overview Sheet 1
Figure 3: Wetland Delineation Overview | Sheet 3 Feature 1

- Project Area
- Wetland Delineation
  - Wetland Sample Point
  - Upland Sample Point
  - Transition Sample Point
- CDFW Jurisdiction*
- USACE Wetland and RWQCE Waters of the State*
- Feature Boundary (Non-Jurisdictional)*

*Boundary widths not to scale

Scale is 1:1,200 when printed at 11"x17"
NOT FOR CONSTRUCTION
Figure 3: Wetland Delineation Overview | Sheet 4 Feature 5

Janus Solar Project
Colusa County, CA

- Project Area
- Wetland Delineation
  - Wetland Sample Point
  - Upland Sample Point
  - Transition Sample Point
- CDFW Jurisdiction*
- USACE Wetland and RWQCB Waters of the State*
- Feature Boundary (Non-Jurisdictional)*

*Boundary widths not to scale

Scale is 1:1,200 when printed at 11"x17" NOT FOR CONSTRUCTION
Figure 3: Wetland Delineation Overview | Sheet 5 Feature 7

- Project Area
- Wetland Delineation
  - Wetland Sample Point
  - Upland Sample Point
  - Transition Sample Point
- CDFW Jurisdiction*
- USACE Wetland and RWQCB Waters of the State*
- Feature Boundary [Non-Jurisdictional]*

*Boundary widths not to scale
5.3 U.S. ARMY CORPS OF ENGINEERS

5.3.1 Section 404 Jurisdictional Wetlands

As shown in Table 1, six sample points within Feature 1 met all three criteria required to be a USACE Section 404 wetland. These sample points had low cover of vegetation that was dominated by hydrophytic plants and had standing water and/or saturated soils. The vegetation within this feature was disturbed by cattle grazing; without this disturbance, wetland plants and associated muck (highly decomposed plant matter) would likely be present in higher quantities. Additional hydrology indicators observed were water-stained leaves, hydrogen sulfide odor, and/or water marks. Hydric soil indicators that were found at these points were hydrogen sulfide, loamy gleyed matrix, loamy mucky mineral, redox dark surface, and/or redox depressions. These areas represented topographically low points in the drainage channel with a propensity to pool water.

The sample points within Features 5 and 7 met all three criteria required to be a USACE Section 404 wetland (Table 1). Sample points 5-1 wet and 7-1 wet were located in the lowest areas of the depressions and had low cover of vegetation that was dominated by hydrophytic plants (Figure 3 Sheets 4 and 5). Sample points 5-1 trans and 7-1 trans were located in the transitional areas of the features between the low and upland areas and had moderate (Feature 5) or high (Feature 7) cover of vegetation that was dominated by hydrophytic plants. The redox depressions hydric soil indicator was found at all four of these sample points. While standing water was not observed at either of these features during the 2021 wetland delineation, it was observed during the initial survey in 2019 (Tetra Tech 2020). In addition, water marks, surface soil cracks, inundation visible on aerial imagery, saturation visible on aerial imagery, and/or drainage patterns (i.e., vegetation bent over at sample point 7-1 trans) were observed at these sample points. Based on the presence of large soil berms adjacent to Features 5 and 7, it is hypothesized that manmade flow blocks were previously created to stop flow and create ponding at these features for stock ponds or agricultural purposes. These features are not subject to ongoing operation and maintenance and have become a relatively permanent part of the natural landscape.

All features and sample points were examined for atypical situations where vegetation, soil, or hydrology indicators were absent due to active cattle grazing or agriculture. In these situations, all three parameters are not required to be considered a USACE wetland. Trampling by cattle has disturbed the topsoil in some areas on the Project site but has not significantly affected belowground soil processes such that hydric soil would be absent. While active grazing has significantly disturbed vegetation, no sample points were found that lacked hydrophytic vegetation but had hydric soil. Similarly, while trampling may have obscured wetland hydrology in some areas, no sample points were found that lacked wetland hydrology but had hydric soil. Feature 10 is actively disturbed by dry farming of wheat but no wetland indicators were found within this feature and the soil pit was excavated to a sufficient depth below the upper layer of organic fertilizer to assess hydric soils. Therefore, no atypical situations were found that affected the results of this delineation.

Data on vegetation, hydrology, and soils collected at the sample points during the delineation are provided on the USACE wetland data forms in Appendix A. All sample points are shown in Figure 2 and Figure 3 Sheets 1-5.

5.3.2 Section 404 Jurisdictional Waters of the U.S.

The features on the Project site were evaluated as potential Waters of the U.S. in accordance with the 2020 Navigable Waters Protection Rule. Under the Rule, regulated waters include tributaries (perennial and intermittent rivers and streams) as well as lakes and ponds that contribute surface flow to traditional navigable waters in a typical year. While a defined bed and bank was found at Features 1 and 3 and wetland...
hydrology was found at Features 1-3, 5-7, and 9, these features only have surface flow or standing water in direct response to precipitation and are not considered perennial.

Based on the assessment below, the features identified on the Project site are unlikely to contribute surface flow to traditional navigable waters in a typical year. The nearest traditional navigable water is the Sacramento River, which is over 15 miles east of the Project site. Since the area has intensive agricultural and ranching uses, numerous flow diversions are expected to be present between the Project site and the Sacramento River. In addition, due to infrequent, low volume, and short duration of flow, the features on the Project site have a minimal capacity to transfer surface water to potential off-site tributaries of the Sacramento River. Surface water connectivity within the Project site has been significantly disturbed by grazing and agricultural activities, which has resulted in impeded or blocked surface flow. For example, large soil berms are present at Features 5 and 7 that stop off-site flow and create ponding. Therefore, no Section 404 Waters of the U.S. were identified within the Project site.

5.3.3 Areas Exempt from Section 404 Jurisdiction
No areas exempt from Section 404 jurisdiction were identified within the Project site.

5.4 REGIONAL WATER QUALITY CONTROL BOARD

5.4.1 Waters of the State
RWQCB Waters of the State include USACE Section 404 jurisdictional wetlands and Waters of the U.S. Therefore, since portions of Feature 1 and the entirety of Features 5 and 7 were determined to be USACE wetlands, these areas are also considered Waters of the State (Figure 3 Sheets 2-5). No Waters of the U.S. were found. In addition, no features with wetland hydrology and hydric soils that lacked vegetation, which would qualify as Waters of the State under the new State wetland definition (SWRCB 2019), were identified on the Project site.

5.4.2 Areas Exempt from State Jurisdiction
No areas exempt from RWQCB jurisdiction were identified within the Project site.

5.5 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
Features 1 and 3 met the criteria for CDFW jurisdiction since these features had a defined bed, bank, and channel. CDFW jurisdiction also includes lakes. Since the CDFW does not differentiate lakes from ponds and wet areas, Features 5 and 7 are also considered jurisdictional to the CDFW. Ponded water has been previously observed at Features 5 and 7 (Tetra Tech 2020). Disturbed riparian areas were found within the Project site (Features 4 and 8) but were not associated with a river, stream, or lake, and therefore, are not under CDFW jurisdiction.
6.0 CONCLUSION

Based on the results of this wetland delineation and literature review, the Project site contains areas that are under USACE, RWQCB, and/or CDFW jurisdictions. As design of the proposed Project continues, future coordination with each of these agencies will be required if impacts to these areas are anticipated. A Section 404 permit from the USACE, a Section 401 Water Quality Certification from the RWQCB, and a Lake and Streambed Alteration Agreement from the CDFW may be required if these areas cannot be avoided, in which case early coordination with these agencies is recommended. Avoidance or minimization of the impacts to the areas under the jurisdiction of each of these agencies is recommended.

USACE Nationwide Permit (NWP) 14 – Linear Transportation Projects may be used to cover access roads within the Project site for up to 0.5 acre of impacts to non-tidal jurisdictional waters/wetlands. Pre-construction notification to the USACE is not required under NWP 14 if less than 0.10 acre of jurisdictional waters/wetlands would be impacted and no discharges to special aquatic sites would occur. However, coordination with the USACE is recommended to confirm their concurrence with the use of NWP 14 for the Project. This report is subject to verification by the USACE.
7.0 LITERATURE CITED


APPENDIX A  WETLAND DETERMINATION DATA FORMS
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner
Soil Map Unit Name: Capay clay loam

City/County: Colusa County
State: CA
City/County: Colusa County
State: CA

Sampling Date: 1/18/2021
Sampling Point: 1-1a up

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner
Soil Map Unit Name: Capay clay loam

City/County: Colusa County
State: CA
City/County: Colusa County
State: CA

Sampling Date: 1/18/2021
Sampling Point: 1-1a up

Janus Solar Colusa County 1/18/2021
RWE Solar Development, LLC 1-1a up
Daniel Berg, Monique O’Conner 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W

Plain Colusa N/A
C - Mediterranean California Refer to Map Refer to Map

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation Soil or Hydrology significantly disturbed? ☒
Are "Normal Circumstances" present? Yes ☐ No ☐
(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Are Vegetation Soil or Hydrology naturally problematic? ☐
Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

Tree Stratum (Use scientific names.)

1. (Use scientific names.)
2. (Use scientific names.)
3. (Use scientific names.)
4. (Use scientific names.)

Total Cover: ☐ %

Total % Cover Dominant Species? indicator Status

1. ☐ ☐ ☐
2. ☐ ☐ ☐
3. ☐ ☐ ☐
4. ☐ ☐ ☐

Herb Stratum

1. ☐ ☐ ☐
2. ☐ ☐ ☐
3. ☐ ☐ ☐
4. ☐ ☐ ☐
5. ☐ ☐ ☐

Total Cover: ☐ %

Absolute % Cover Dominant Species? indicator Status

1. ☐ ☐ ☐
2. ☐ ☐ ☐
3. ☐ ☐ ☐
4. ☐ ☐ ☐
5. ☐ ☐ ☐

Woody Vine Stratum

1. ☐ ☐ ☐
2. ☐ ☐ ☐

Total Cover: ☐ %

% Bare Ground in Herb Stratum ☐ %
% Cover of Biotic Crust ☐ %

Hydrophytic Vegetation Present? ☐
Hydric Soil Present? ☐
Wetland Hydrology Present? ☐

Is the Sampled Area within a Wetland? ☐
Remarks:

Hydrophytic Vegetation Indicators:

Hydrophytic Vegetation Present? ☐

Hydrophytic Vegetation Indicators:

Hydrophytic Vegetation Present? ☐

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

OBL species ☐ ☐ ☐
FACW species ☐ ☐ ☐
FAC species ☐ ☐ ☐
FACU species ☐ ☐ ☐
UPL species ☐ ☐ ☐

Column Totals: 81 (A) 405 (B)

Prevalence Index = B/A = 5.00

Hydrophytic Vegetation Indicators:

Dominance Test is >50%
Prevalence Index is ≤3.0
Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation (Explain)

1Indicators of hydric soil and wetland hydrology must be present.

Remarks:
### Soil Description

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Redox Features</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10</td>
<td>7.5YR 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
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</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix.
2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

### Wetland Hydrology Indicators

**Primary Indicators (any one indicator is sufficient)**
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

**Secondary Indicators (2 or more required)**
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)
- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

### Field Observations

- Surface Water Present? Yes ☐ No ☑ Depth (inches): _____
- Water Table Present? Yes ☐ No ☑ Depth (inches): _____
- Saturation Present? Yes ☐ No ☑ Depth (inches): _____

**Wetland Hydrology Present?** Yes ☐ No ☑

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
**WETLAND DETERMINATION DATA FORM** - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**City/County:** Colusa County  
**Investigator(s):** Daniel Berg, Monique O'Conner  
**State:** CA  
**Landform (hillslope, terrace, etc.):** Drainage channel  
**Section, Township, Range:** 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W  
**Soil Map Unit Name:** Capay clay loam  
**Summar of Findings:** Project site is actively grazed by cattle throughout.

### VEGETATION

**Tree Stratum (Use scientific names.)**

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant</th>
<th>Indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salix laevigata</td>
<td>10</td>
<td>Yes</td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>Prunus dulcis</td>
<td>10</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover:** 20%

**Sapling/Shrub Stratum**

1.  
2.  
3.  
4.  
5.  

**Herb Stratum**

1. *Centaurea solstitialis*  
   - 1 Yes Not Listed

**Total Cover:**%

**Woody Vine Stratum**

1.  
2.  

**Total Cover:** 1%

### VEGETATION DOMINANCE

- **Number of Dominant Species That Are OBL, FACW, or FAC:** 1 (A)
- **Total Number of Dominant Species Across All Strata:** 3 (B)
- **Percent of Dominant Species That Are OBL, FACW, or FAC:** 33.3% (A/B)

### PREVALENCE INDEX

- **Prevalence Index = B/A:** 3.57

**Hydrophytic Vegetation Indicators:**

- **Dominance Test is >50%**
- **Prevalence Index is ≤3.0**
- **Morphological Adaptations** (Provide supporting data in Remarks or on a separate sheet)
- **Problematic Hydrophytic Vegetation** (Explain)

1. Indicators of hydric soil and wetland hydrology must be present.
### SOIL

#### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10</td>
<td>7.5YR 3/4</td>
<td>100%</td>
<td></td>
<td>Silty clay loam</td>
</tr>
</tbody>
</table>


#### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Type</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol (A1)</td>
<td>Sandy Redox (SS)</td>
<td></td>
</tr>
<tr>
<td>Histic Epipedon (A2)</td>
<td>Stripped Matrix (S6)</td>
<td></td>
</tr>
<tr>
<td>Black Histic (A3)</td>
<td>Loamy Mucky Mineral (F1)</td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (A4)</td>
<td>Loamy Gleyed Matrix (F2)</td>
<td></td>
</tr>
<tr>
<td>Stratified Layers (A5) (LRR C)</td>
<td>Depleted Matrix (F3)</td>
<td></td>
</tr>
<tr>
<td>1 cm Muck (A9) (LRR D)</td>
<td>Redox Dark Surface (F6)</td>
<td></td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
<td>Depleted Dark Surface (F7)</td>
<td></td>
</tr>
<tr>
<td>Thick Dark Surface (A12)</td>
<td>Redox Depressions (F8)</td>
<td></td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
<td>Vernal Pools (F9)</td>
<td></td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Indicators for Problematic Hydric Soils:

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Type</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 cm Muck (A9) (LRR C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 cm Muck (A10) (LRR B)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduced Vertic (F18)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red Parent Material (TF2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (Explain in Remarks)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Restrictive Layer (if present):

<table>
<thead>
<tr>
<th>Type</th>
<th>Depth (inches):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydric Soil Present? Yes ☐ No ☐</td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
</tbody>
</table>

### HYDROLOGY

#### Wetland Hydrology Indicators:

<table>
<thead>
<tr>
<th>Primary Indicators (any one indicator is sufficient)</th>
<th>Secondary Indicators (2 or more required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water (A1)</td>
<td>Water Marks (B1) (Riverine)</td>
</tr>
<tr>
<td>High Water Table (A2)</td>
<td>Sediment Deposits (B2) (Riverine)</td>
</tr>
<tr>
<td>Saturation (A3)</td>
<td>Drift Deposits (B3) (Riverine)</td>
</tr>
<tr>
<td>Water Marks (B1) (Nonriverine)</td>
<td>Drainage Patterns (B10)</td>
</tr>
<tr>
<td>Sediment Deposits (B2) (Nonriverine)</td>
<td>Dry-Season Water Table (C2)</td>
</tr>
<tr>
<td>Drift Deposits (B3) (Nonriverine)</td>
<td>Thin Muck Surface (C7)</td>
</tr>
<tr>
<td>Surface Soil Cracks (B6)</td>
<td>Crayfish Burrows (C8)</td>
</tr>
<tr>
<td>Inundation Visible on Aerial Imagery (B7)</td>
<td>Saturation Visible on Aerial Imagery (C9)</td>
</tr>
<tr>
<td>Water-Stained Leaves (B9)</td>
<td>Shallow Aquitard (D3)</td>
</tr>
<tr>
<td>Other (Explain in Remarks)</td>
<td>FAC-Neutral Test (D5)</td>
</tr>
</tbody>
</table>

#### Field Observations:

<table>
<thead>
<tr>
<th>Surface Water Present? Yes ☐ No ☐</th>
<th>Depth (inches):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Table Present? Yes ☐ No ☐</td>
<td>Depth (inches):</td>
</tr>
<tr>
<td>Saturation Present? Yes ☐ No ☐</td>
<td>Depth (inches):</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wetland Hydrology Present? Yes ☐ No ☐</th>
</tr>
</thead>
</table>

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
### Project Site Information

**Project/Site:** Janus Solar  
**City/County:** Colusa County  
**Sampling Date:** 1/18/2021  
**Applicant/Owner:** RWE Solar Development, LLC  
**State:** CA  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform (hillslope, terrace, etc.):** Plain  
**Local relief (concave, convex, none):** None  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Capay clay loam  
**Are climatic / hydrologic conditions on the site typical for this time of year?** Yes  
**Are Vegetation or Hydrology significantly disturbed?** Yes  
**Are "Normal Circumstances" present?** Yes  
**Are Vegetation or Soil or Hydrology naturally problematic?** Yes  

### VEGETATION

#### Tree Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salix laevigata</td>
<td>3</td>
<td>Yes</td>
<td>FACW</td>
</tr>
<tr>
<td>2. Prunus dulcis</td>
<td>3</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aegilops triuncialis</td>
<td>50</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2. Cynodon dactylon</td>
<td>10</td>
<td>No</td>
<td>FACU</td>
</tr>
<tr>
<td>3. Centaurea solstitialis</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
</tr>
<tr>
<td>4. Erodium sp.</td>
<td>1</td>
<td>No</td>
<td>FACU</td>
</tr>
</tbody>
</table>

#### Herb Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aegilops triuncialis</td>
<td>50</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2. Cynodon dactylon</td>
<td>10</td>
<td>No</td>
<td>FACU</td>
</tr>
<tr>
<td>3. Centaurea solstitialis</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
</tr>
<tr>
<td>4. Erodium sp.</td>
<td>1</td>
<td>No</td>
<td>FACU</td>
</tr>
</tbody>
</table>

#### Woody Vine Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>62</td>
<td>Yes</td>
<td>FACU</td>
</tr>
</tbody>
</table>

#### Remarks:

Project site is actively grazed by cattle throughout.

### Hydrophytic Vegetation Indicators

- Dominance Test is >50%
- Prevalence Index is ≤3.01
- Morphological Adaptations
- Problematic Hydrophytic Vegetation

### Prevalence Index Worksheet

<table>
<thead>
<tr>
<th>Total % Cover</th>
<th>Multiply by</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>x 1 = 0</td>
</tr>
<tr>
<td>FACW species</td>
<td>x 2 = 6</td>
</tr>
<tr>
<td>FAC species</td>
<td>x 3 = 0</td>
</tr>
<tr>
<td>FACU species</td>
<td>x 4 = 44</td>
</tr>
<tr>
<td>UPL species</td>
<td>x 5 = 270</td>
</tr>
<tr>
<td>Column Totals</td>
<td>68 x 320 = 27,020</td>
</tr>
</tbody>
</table>

**Prevalence Index:** 4.71

### Hydrophytic Vegetation Present?

Yes

### Remarks:

Hydrophytic Vegetation Present? Yes  
Hydric Soil Present? Yes  
Wetland Hydrology Present? Yes  

**SUMMARY OF FINDINGS** - Attach site map showing sampling point locations, transects, important features, etc.

- Is the Sampled Area within a Wetland? Yes
- Hydrophytic Vegetation Present? Yes
- Hydric Soil Present? Yes
- Wetland Hydrology Present? Yes

**Remarks:** Project site is actively grazed by cattle throughout.
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>7.5YR 3/3</td>
<td>100</td>
<td>Silty clay loam</td>
<td></td>
</tr>
</tbody>
</table>

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Depth (inches)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol (A1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Histic Epipedon (A2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Histic (A3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (A4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stratified Layers (A5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 cm Muck (A9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thick Dark Surface (A12)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depleted Matrix (F3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redox Depressions (F8)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Indicators for Problematic Hydric Soils:

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Depth (inches)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 cm Muck (A9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 cm Muck (A10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduced Vertic (F18)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Restrictive Layer (if present): Type: ____________ Depth (inches): ____________

Hydric Soil Present? Yes ☐ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Depth (inches)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water (A1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Water Table (A2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturation (A3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Marks (B1) (Nonriverine)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sediment Deposits (B2) (Nonriverine)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drift Deposits (B3) (Nonriverine)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface Soil Cracks (B6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inundation Visible on Aerial Imagery (B7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water-Stained Leaves (B9)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Secondary Indicators (2 or more required)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Depth (inches)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Marks (B1) (Riverine)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sediment Deposits (B2) (Riverine)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage Patterns (B10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thin Muck Surface (C7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidized Rhizospheres along Living Roots (C3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presence of Reduced Iron (C4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recent Iron Reduction in Plowed Soils (C6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (Explain in Remarks)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Observations:

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Depth (inches)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water Present? Yes ☐ No ☐</td>
<td>Depth (inches): ____________</td>
<td></td>
</tr>
<tr>
<td>Water Table Present? Yes ☐ No ☐</td>
<td>Depth (inches): ____________</td>
<td></td>
</tr>
<tr>
<td>Saturation Present? Yes ☐ No ☐ (includes capillary fringe)</td>
<td>Depth (inches): ____________</td>
<td></td>
</tr>
</tbody>
</table>

Wetland Hydrology Present? Yes ☐ No ☐

Remarks:

US Army Corps of Engineers
### WETLAND DETERMINATION DATA FORM - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform (hillslope, terrace, etc.):** Plain  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Capay clay loam  
**Hydrophytic Vegetation Present?** Yes  
**Hydric Soil Present?** Yes  
**Wetland Hydrology Present?** Yes  
**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Absolute Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td>Number of Dominant Species That Are OBL, FACW, or FAC:</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td>Total Number of Dominant Species Across All Strata:</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td>Total Cover:</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td>Herb Stratum</td>
</tr>
<tr>
<td>1. <em>Aegilops triuncialis</em> 30 Yes Not Listed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. <em>Centaurea solstitialis</em> 30 Yes Not Listed</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3. <em>Hemizonia congesta</em> 5 No Not Listed</td>
<td></td>
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<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td>Woody Vine Stratum</td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td>% Cover of Biotic Crust</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td>% Cover of Biotic Crust</td>
</tr>
</tbody>
</table>

### Hydrophytic Vegetation Indicators:
- **Dominance Test is >50%**
- **Prevalence Index is ≤3.0**
- **Morphological Adaptations** (Provide supporting data in Remarks or on a separate sheet)
- **Problematic Hydrophytic Vegetation** (Explain)

1. Indicators of hydric soil and wetland hydrology must be present.
SOIL Sampling Point: 1-2a up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Redox Features</th>
<th>%</th>
<th>Type</th>
<th>Location</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>7.5YR 3/4</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
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</tr>
</tbody>
</table>

Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- Depleted Matrix (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

Restrictive Layer (if present):

Type: 
Depth (inches): 

Hydric Soil Present? Yes ☐ No ☐

Hydrology

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Stains (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): 
Water Table Present? Yes ☐ No ☐ Depth (inches): 
Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): 

Wetland Hydrology Present? Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

US Army Corps of Engineers
### WETLAND DETERMINATION DATA FORM - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O'Conner  
**Landform (hillslope, terrace, etc.):** Drainage channel  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Capay clay loam  
**Are climatic / hydrologic conditions on the site typical for this time of year?** Yes ☐  
**Are Vegetation or Hydrology significantly disturbed?** ☐  
**Are "Normal Circumstances" present?** Yes ☐  
**Are Vegetation or Soil or Hydrology naturally problematic?** ☐  

**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover:** %

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th>% Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salix sp.</td>
<td>2</td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover:** %

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>% Cover</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Typha sp.</td>
<td>15</td>
<td>OBL</td>
</tr>
<tr>
<td>2. Ambrosia psilostachya</td>
<td>5</td>
<td>FACU</td>
</tr>
<tr>
<td>3. Juncus sp.</td>
<td>5</td>
<td>FACW</td>
</tr>
</tbody>
</table>

**Total Cover:** %

### Hydrophytic Vegetation

- **Dominance Test worksheet:**
  - Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
  - Total Number of Dominant Species Across All Strata: 4 (B)
  - Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 % (A/B)

- **Prevalence Index worksheet:**
  - Total % Cover of:
    - OBL species 15 x 1 = 15
    - FACW species 7 x 2 = 14
    - FAC species 3 x 3 = 0
    - FACU species 5 x 4 = 20
    - UPL species 0 x 5 = 0
  - Column Totals: 27 (A) 49 (B)
  - Prevalence Index = B/A = 1.81

### Hydrophytic Vegetation Indicators:

- **Dominance Test is > 50%** ☐
- **Prevalence Index is ≤ 3.0** ☐
- **Morphological Adaptations** (Provide supporting data in Remarks or on a separate sheet) ☐
- **Problematic Hydrophytic Vegetation** (Explain) ☐

**Remarks:**

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Bare Ground in Herb Stratum</td>
<td>75 %</td>
</tr>
<tr>
<td>% Cover of Biotic Crust</td>
<td>0 %</td>
</tr>
</tbody>
</table>

**Remarks:**

US Army Corps of Engineers

Arid West - Version 11-1-2006
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Color (moist)</td>
<td>%</td>
</tr>
<tr>
<td>0-4</td>
<td>Gley 1 3/10Y</td>
<td>100</td>
</tr>
<tr>
<td>4-16</td>
<td>10YR 5/8</td>
<td>100</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):

- Type:  
- Depth (inches):  

### Hydric Soil Present?  Yes ☐  No ☐

### HYDROLOGY

### Wetland Hydrology Indicators:

**Primary Indicators (any one indicator is sufficient)**

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

**Secondary Indicators (2 or more required)**

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)
- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

### Field Observations:

- Surface Water Present?  Yes ☐  No ☐  Depth (inches): 16 inches
- Water Table Present?  Yes ☐  No ☐  Depth (inches):  
- Saturation Present? (includes capillary fringe)  Yes ☐  No ☐  Depth (inches):  

### Wetland Hydrology Present?  Yes ☐  No ☐

**Remarks:** Algae layer present atop water.

---

**US Army Corps of Engineers**
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar  
Applicant/Owner: RWE Solar Development, LLC  
Investigator(s): Daniel Berg, Monique O’Conner  
Landform (hillslope, terrace, etc.): Plain  
Subregion (LRR): Mediterranean California  
Soil Map Unit Name: Capay clay loam  

City/County: Colusa County  
State: CA  
Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W  
Local relief (concave, convex, none): None  
Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W  
Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W  
Section, Township, Range: 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W  

Sampling Date: 1/18/2021  
Sampling Point: 1-2b up  
Lat: Refer to Map  
Long: Refer to Map  
Datum: N/A

Are climatic / hydrologic conditions on the site typical for this time of year?  Yes ☐  No ☐  (If no, explain in Remarks.)
Are Vegetation  Soil or Hydrology  significantly disturbed?  Yes ☐  No ☐
Are Vegetation  Soil or Hydrology  naturally problematic?  Yes ☐  No ☐

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes ☐  No ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydric Soil Present?</td>
<td>Yes ☐  No ☐</td>
</tr>
<tr>
<td>Wetland Hydrology Present?</td>
<td>Yes ☐  No ☐</td>
</tr>
</tbody>
</table>

Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<tr>
<td>4.</td>
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<tr>
<td>5.</td>
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</tr>
</tbody>
</table>

Total Cover: %

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>3.</td>
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<td>4.</td>
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<tr>
<td>5.</td>
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</tr>
</tbody>
</table>

Total Cover: %

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aegilops triuncialis</td>
<td>30</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>2. Centaurea solstitialis</td>
<td>30</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>3. Juncus sp.</td>
<td>3</td>
<td>No</td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>4. Hemizonia congesta</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>5. Cynodon dactylon</td>
<td>1</td>
<td>No</td>
<td>FACU</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
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<tr>
<td>8.</td>
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</tr>
</tbody>
</table>

Total Cover: %

<table>
<thead>
<tr>
<th>Woody Vine Stratum</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
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<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Cover: %

| % Bare Ground in Herb Stratum | 35 % |
| % Cover of Biotic Crust | 0 % |

Remarks:

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes ☐  No ☐</th>
</tr>
</thead>
</table>

US Army Corps of Engineers  
Arid West - Version 11-1-2006
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-8</td>
<td>7.5YR 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
<td>Soil is extremely compacted</td>
</tr>
</tbody>
</table>

**Type:** C=Concentration, D=Depletion, RM=Reduced Matrix. **Location:** PL=Pore Lining, RC=Root Channel, M=Matrix.

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Hydric Soil Indicators for Problematic Hydric Soils:
- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):

<table>
<thead>
<tr>
<th>Type: Compacted soil</th>
</tr>
</thead>
</table>

### HYDROLOGY

#### Wetland Hydrology Indicators:

- **Primary Indicators** (any one indicator is sufficient)
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- **Secondary Indicators** (2 or more required)
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drainage Patterns (B10)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

#### Field Observations:

- Surface Water Present? Yes ☐ No ☐ Depth (inches): □
- Water Table Present? Yes ☐ No ☐ Depth (inches): □
- Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): □

### Wetland Hydrology Present? Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

US Army Corps of Engineers
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O'Conner
Landform (hillslope, terrace, etc.): Drainage channel
Subregion (LRR): C - Mediterranean California
Soil Map Unit Name: Capay clay loam

Is the Sampled Area within a Wetland? Yes ☐ No ☐
Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
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<td>2.</td>
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<td>3.</td>
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<tr>
<td>4.</td>
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<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. <em>Salix sp.</em></td>
<td>1</td>
<td>Yes</td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
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<td>4.</td>
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<tr>
<td>5.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. <em>Centaurea solstitialis</em></td>
<td>1</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
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<td>4.</td>
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<td>5.</td>
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<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woody Vine Stratum</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

% Bare Ground in Herb Stratum: 99 %
% Cover of Biotic Crust: 0 %

Hydrophytic Vegetation Present? Yes ☐ No ☐
Remarks: Dominance Test is >50%

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.01
- Morphological Adaptations
- Problematic Hydrophytic Vegetation

Hydrophytic Vegetation Present? Yes ☐ No ☐
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5</td>
<td>7.5YR 4/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
<td></td>
</tr>
<tr>
<td>5-12</td>
<td>10YR 5/6</td>
<td>95</td>
<td>10YR 7/3</td>
<td>5</td>
<td>D</td>
<td>M</td>
<td>Silty clay loam</td>
<td></td>
</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

#### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

#### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

#### Restrictive Layer (if present):

- Type:  
  - Depth (inches): 

#### Hydric Soil Present?  
Yes ☐  
No ☐

#### Remarks:

---

### HYDROLOGY

#### Wetland Hydrology Indicators:

- Primary Indicators (any one indicator is sufficient)
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)
  - Salt Crust (B11)
  - Biotic Crust (B12)
  - Aquatic Invertebrates (B13)
  - Hydrogen Sulfide Odor (C1)
  - Oxidized Rhizospheres along Living Roots (C3)
  - Presence of Reduced Iron (C4)
  - Recent Iron Reduction in Plowed Soils (C6)
  - Other (Explain in Remarks)

- Secondary Indicators (2 or more required)
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drift Deposits (B3) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

#### Field Observations:

- Surface Water Present? Yes ☐  No ☐  Depth (inches): 
- Water Table Present? Yes ☐  No ☐  Depth (inches): 
- Saturation Present? Yes ☐  No ☐  Depth (inches): 

#### Wetland Hydrology Present?  
Yes ☐  No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

#### Remarks:

---

US Army Corps of Engineers
### WETLAND DETERMINATION DATA FORM - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform:** Drainage channel  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Capay clay loam  
**Are climatic / hydrologic conditions on the site typical for this time of year?** Yes ☐  No ☐  
**Are Vegetation or Hydrology significantly disturbed?** ☐ Yes  ☐ No  
**Are Vegetation or Hydrology naturally problematic?** ☐ Yes  ☐ No  

### SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

- **Hydrophytic Vegetation Present?** Yes ☐  No ☐
- **Hydric Soil Present?** Yes ☐  No ☐
- **Wetland Hydrology Present?** Yes ☐  No ☐

**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

#### Tree Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Salix sp.</td>
<td>3</td>
<td>Yes Facw</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Herb Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Typha sp.</td>
<td>3</td>
<td>Yes Obl</td>
</tr>
<tr>
<td>2: Vicia villosa</td>
<td>1</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
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<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Woody Vine Stratum

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Prevalence Index worksheet:**

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Multiply by</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>FACW species</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>FAC species</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>FACU species</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>UPL species</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Indicators:**

- **Dominance Test is >50%**
- **Prevalence Index is ≤3.0**
- **Morphological Adaptations** (Provide supporting data in Remarks or on a separate sheet)
- **Problematic Hydrophytic Vegetation** (Explain)

**Remarks:**

- % Bare Ground in Herb Stratum: 96%
- % Cover of Biotic Crust: %

**Remarks:**
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>Gley 1 3/10Y</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Clay loam</td>
<td>Muck (30-40%), small rocks</td>
</tr>
<tr>
<td>6-12</td>
<td>2.5Y 4/4</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Loamy sand</td>
<td>Small rocks</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

#### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (SS)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

#### Restrictive Layer (if present):

- Type: 
- Depth (inches): 
- Hydric Soil Present? Yes ☐ No ☐

#### HYDROLOGY

**Wetland Hydrology Indicators:**

- Primary Indicators (any one indicator is sufficient)
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

#### Field Observations:

- Surface Water Present? Yes ☐ No ☐ Depth (inches): 1
- Water Table Present? Yes ☐ No ☐ Depth (inches): 12
- Saturation Present? Yes ☐ No ☐ (includes capillary fringe)

#### Wetland Hydrology Present? Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

US Army Corps of Engineers
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
City/County: Colusa County
State: CA
Sampling Date: 1/19/2021
Investigator(s): Daniel Berg, Monique O’Conner
Sampling Point: 1-5 wet
Section, Township, Range: 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W
Landform (hillslope, terrace, etc.): Drainage channel
Local relief (concave, convex, none): None
Slope (%): 1
Subregion (LRR): Mediterranean California
Latitude Refer to Map
Longitude Refer to Map
Datum: N/A
Soil Map Unit Name: Capay clay loam
NW1 classification: PSSC
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks.)
Are Vegetation or Hydrology significantly disturbed? ☒
Are "Normal Circumstances" present? Yes ☐ No ☒
Are Vegetation or Soil or Hydrology naturally problematic? ☐
(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes ☐ No ☒</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydric Soil Present?</td>
<td>Yes ☐ No ☒</td>
</tr>
<tr>
<td>Wetland Hydrology Present?</td>
<td>Yes ☒ No ☐</td>
</tr>
</tbody>
</table>

Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: ☒ ☒ ☒ ☒ %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th>% Cover</th>
<th>Status</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: ☒ ☒ ☒ ☒ ☒ %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>% Cover</th>
<th>Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ambrosia psilostachya</td>
<td>3</td>
<td>Yes</td>
<td>FACU</td>
</tr>
<tr>
<td>2. Centaurea solstitialis</td>
<td>2</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Woody Vine Stratum</th>
<th>% Cover</th>
<th>Status</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: ☒ ☒ ☒ ☒ %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>% Bare Ground in Herb Stratum</th>
<th>☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ %</th>
<th>% Cover of Biotic Crust</th>
<th>☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ %</th>
</tr>
</thead>
</table>

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

| OBL species | x 1 = | 0 |
| FACW species | x 2 = | 0 |
| FAC species | x 3 = | 0 |
| FACU species | x 4 = | 12 |
| UPL species | x 5 = | 10 |
| Column Totals: | 5 | (A) | 22 | (B) |

Prevalence Index = B/A = 4.40

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Remarks:

Hydrophytic Vegetation Present? ☐ Yes ☒ No ☐
**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix Color (moist)</th>
<th>%</th>
<th>Redox Features Color (moist)</th>
<th>%</th>
<th>Type¹</th>
<th>Loc²</th>
<th>Texture³</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>10YR 3/2</td>
<td>97</td>
<td>2.5YR 4/8</td>
<td>3</td>
<td>C</td>
<td>M</td>
<td>Loam</td>
<td>Loam</td>
</tr>
<tr>
<td>1-16</td>
<td>7.5YR 4/6</td>
<td>97</td>
<td>2.5YR 4/8</td>
<td>3</td>
<td>C</td>
<td>M</td>
<td>Loamy sand</td>
<td>Loamy sand</td>
</tr>
</tbody>
</table>

¹Type:  C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location:  PL=Pore Lining, RC=Root Channel, M=Matrix. ³Soil Textures:  Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR C)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

**Indicators for Problematic Hydric Soils:**

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

**Restrictive Layer (if present):**

- Type:  
- Depth (inches):  
- Hydric Soil Present?  Yes ☐  No ☐

**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- **Primary Indicators (any one indicator is sufficient)**
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- **Secondary Indicators (2 or more required)**
  - Salt Crust (B11)
  - Biotic Crust (B12)
  - Aquatic Invertebrates (B13)
  - Hydrogen Sulfide Odor (C1)
  - Oxidized Rhizospheres along Living Roots (C3)
  - Presence of Reduced Iron (C4)
  - Recent Iron Reduction in Plowed Soils (C6)
  - Other (Explain in Remarks)
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drift Deposits (B3) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

**Field Observations:**

- Surface Water Present?  Yes ☐  No ☐  Depth (inches):  
- Water Table Present?  Yes ☐  No ☐  Depth (inches):  
- Saturation Present?  Yes ☐  No ☐  Depth (inches):  
- Other (Explain in Remarks)

**Wetland Hydrology Present?**  Yes ☐  No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

**Remarks:**

US Army Corps of Engineers
Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner
Landform (hillslope, terrace, etc.): Drainage channel
Subregion (LRR): Mediterranean California
Soil Map Unit Name: Capay clay loam

Are climatic / hydrologic conditions on the site typical for this time of year?  Yes ☐  No ☐ (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? ☐
Are Vegetation Soil or Hydrology naturally problematic? ☐ (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Is the Sampled Area within a Wetland?  Yes ☐  No ☐
Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Herb Stratum

1. Typha sp. 5 Yes OBL
2. Centaurea solstitialis 1 No Not Listed
3. Xanthium strumarium 1 No FAC
4. Ambrosia psilostachya 1 No FACU
5. 6.
6. 7.
8. Total Cover: 8 %

Woody Vine Stratum

1. 2. Total Cover: %

% Bare Ground in Herb Stratum 92 %
% Cover of Biotic Crust %

Remarks:

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/B)

Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>Total % Cover of:</th>
<th>Multiply by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>x 1 = 5</td>
</tr>
<tr>
<td>FACW species</td>
<td>x 2 = 0</td>
</tr>
<tr>
<td>FAC species</td>
<td>x 3 = 3</td>
</tr>
<tr>
<td>FACU species</td>
<td>x 4 = 4</td>
</tr>
<tr>
<td>UPL species</td>
<td>x 5 = 5</td>
</tr>
<tr>
<td>Column Totals:</td>
<td>8 (A) 17 (B)</td>
</tr>
<tr>
<td>Prevalence Index = B/A = 2.13</td>
<td></td>
</tr>
</tbody>
</table>

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%
X Prevalence Index is ≤3.0
Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation (Explain)

1Indicators of hydric soil and wetland hydrology must be present.
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type^1</th>
<th>Loc^2</th>
<th>Texture^3</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-12</td>
<td>7.5YR 3/2</td>
<td>80</td>
<td>2.5YR 4/6</td>
<td>20</td>
<td>C</td>
<td>M</td>
<td>Silty clay loam</td>
<td></td>
</tr>
</tbody>
</table>

^1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.

^2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.


### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Black Histic (A3)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Indicators for Problematic Hydric Soils:
- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):
- Type: 
- Depth (inches): 

HIDROLOGY

#### Wetland Hydrology Indicators:

- Primary Indicators (any one indicator is sufficient)
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deps (B2) (Nonriverine)
  - Drift Deps (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- Secondary Indicators (2 or more required)
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Thin Muck Surface (C7)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

#### Field Observations:

- Surface Water Present? Yes ☑ No ☐ Depth (inches): 4
- Water Table Present? Yes ☑ No ☐ Depth (inches): 12
- Saturation Present? Yes ☑ No ☐ (includes capillary fringe)

Wetland Hydrology Present? Yes ☑ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

US Army Corps of Engineers
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar  
Applicant/Owner: RWE Solar Development, LLC  
Investigator(s): Daniel Berg, Monique O’Conner  
Landform (hillslope, terrace, etc.): Drainage channel  
Subregion (LRR): C - Mediterranean California  
Soil Map Unit Name: Capay clay loam  

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐  No ☐  (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? ☒
Are "Normal Circumstances" present? Yes ☐  No ☐
Are Vegetation Soil or Hydrology naturally problematic? ☒
(If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes ☒  No ☐</th>
<th>Is the Sampled Area within a Wetland?</th>
<th>Yes ☐  No ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks: Project site is actively grazed by cattle throughout.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Salix sp.</td>
<td>3</td>
<td>Yes</td>
<td>FACW</td>
</tr>
<tr>
<td>2. Populus fremontii</td>
<td>1</td>
<td>Yes</td>
<td>FAC</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td>4 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Centaurea solstitialis</td>
<td>2</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2. Juncus sp.</td>
<td>2</td>
<td>Yes</td>
<td>FACW</td>
</tr>
<tr>
<td>3. Aegilops triuncialis</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
</tr>
<tr>
<td>4. Typha sp.</td>
<td>1</td>
<td>No</td>
<td>OBL</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td>6 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woody Vine Stratum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Feature is significantly grazed/disturbed or wetland vegetation would likely be more prominent.

Vegatation Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0 % (A/B)

Prevalence Index worksheet:
Total % Cover of:
OBL species 1 x 1 = 1
FACW species 5 x 2 = 10
FAC species 1 x 3 = 3
FACU species 1 x 4 = 0
UPL species 3 x 5 = 15
Column Totals: 10 (A) 29 (B)
Prevalence Index = B/A = 2.90

Hydrophytic Vegetation Indicators:
1. Dominance Test is >50%
2. Prevalence Index is ≤3.0%
3. Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
4. Problematic Hydrophytic Vegetation¹ (Explain)

1Indicators of hydric soil and wetland hydrology must be present.
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>Gley 1 2.5/10Y</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
<td></td>
</tr>
<tr>
<td>1-10</td>
<td>10YR 4/4</td>
<td>85</td>
<td>2.5YR 3/6</td>
<td>15</td>
<td>C</td>
<td>M</td>
<td>Loam</td>
<td>Rocks present</td>
</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Type/Rock</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol (A1)</td>
<td>Sandy Redox (SS)</td>
<td></td>
</tr>
<tr>
<td>Histic Epipedon (A2)</td>
<td>Stripped Matrix (S6)</td>
<td></td>
</tr>
<tr>
<td>Black Histic (A3)</td>
<td>Loamy Mucky Mineral (F1)</td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (A4)</td>
<td>Loamy Gleyed Matrix (F2)</td>
<td></td>
</tr>
<tr>
<td>Stratified Layers (A5) (LRR C)</td>
<td>Depleted Matrix (F3)</td>
<td></td>
</tr>
<tr>
<td>1 cm Muck (A9) (LRR D)</td>
<td>Redox Dark Surface (F6)</td>
<td></td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
<td>Depleted Dark Surface (F7)</td>
<td></td>
</tr>
<tr>
<td>Thick Dark Surface (A12)</td>
<td>Redox Depressions (F8)</td>
<td></td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
<td>Vernal Pools (F9)</td>
<td></td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Restrictive Layer (if present):
Type: Rock  
Depth (inches): 10

### Hydric Soil Present?  Yes ☑ No ☐

Remarks: Directly below a culvert, rip rap/fill is present in low quantity.

### HYDROLOGY

#### Wetland Hydrology Indicators:
Primary Indicators (any one indicator is sufficient)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water (A1)</td>
<td></td>
</tr>
<tr>
<td>High Water Table (A2)</td>
<td></td>
</tr>
<tr>
<td>Saturation (A3)</td>
<td></td>
</tr>
<tr>
<td>Water Marks (B1) (Nonriverine)</td>
<td></td>
</tr>
<tr>
<td>Sediment Deposits (B2) (Nonriverine)</td>
<td></td>
</tr>
<tr>
<td>Drainage Patterns (B10)</td>
<td></td>
</tr>
<tr>
<td>Oxidized Rhizospheres along Living Roots (C3)</td>
<td></td>
</tr>
<tr>
<td>Surface Soil Cracks (B6)</td>
<td></td>
</tr>
<tr>
<td>Inundation Visible on Aerial Imagery (B7)</td>
<td></td>
</tr>
<tr>
<td>Water-Stained Leaves (B9)</td>
<td></td>
</tr>
</tbody>
</table>

#### Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

#### Field Observations:

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Yes ☑</th>
<th>No ☐</th>
<th>Depth (inches):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water Present?</td>
<td>Yes ☑</td>
<td>No ☐</td>
<td>6</td>
</tr>
<tr>
<td>Water Table Present?</td>
<td>Yes ☑</td>
<td>No ☐</td>
<td>10</td>
</tr>
<tr>
<td>Saturation Present? (includes capillary fringe)</td>
<td>Yes ☑</td>
<td>No ☐</td>
<td></td>
</tr>
</tbody>
</table>

Wetland Hydrology Present?  Yes ☑ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
### WETLAND DETERMINATION DATA FORM - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O'Conner  
**Landform (hillslope, terrace, etc.):** Drainage channel  
**Subregion (LRR):** C - Mediterranean California  
**Soil Map Unit Name:** Capay clay loam  
**State:** CA

### SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydric Soil Present?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetland Hydrology Present?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

**Tree Stratum**  
(Use scientific names.)

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sapling/Shrub Stratum**

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salix sp.</td>
<td>5</td>
<td>Yes</td>
<td>FACW</td>
</tr>
<tr>
<td>Populus fremontii</td>
<td>2</td>
<td>Yes</td>
<td>FAC</td>
</tr>
</tbody>
</table>

**Herb Stratum**

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centaurea solstitialis</td>
<td>2</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Juncus sp.</td>
<td>1</td>
<td>Yes</td>
<td>FACW</td>
</tr>
<tr>
<td>Aegilops triuncialis</td>
<td>1</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Woody Vine Stratum**

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| % Bare Ground in Herb Stratum | 96 % |

### Dominance Test worksheet:

- **Number of Dominant Species That Are OBL, FACW, or FAC:** 3 (A)
- **Total Number of Dominant Species Across All Strata:** 5 (B)
- **Percent of Dominant Species That Are OBL, FACW, or FAC:** 60.0 % (A/B)

### Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>Multiply by:</th>
<th>Total % Cover of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>x 1 = 0</td>
</tr>
<tr>
<td>FACW species</td>
<td>x 2 = 12</td>
</tr>
<tr>
<td>FAC species</td>
<td>x 3 = 6</td>
</tr>
<tr>
<td>FACU species</td>
<td>x 4 = 0</td>
</tr>
<tr>
<td>UPL species</td>
<td>x 5 = 15</td>
</tr>
<tr>
<td>Column Totals:</td>
<td>11 = 33</td>
</tr>
</tbody>
</table>

**Prevalence Index = B/A = 3.00**

### Hydrophytic Vegetation Indicators:

- **Dominance Test is >50%**
- **Prevalence Index is ≤3.0**
- **Morphological Adaptations** (Provide supporting data in Remarks or on a separate sheet)
- **Problematic Hydrophytic Vegetation** (Explain)

**Remarks:** Feature is significantly grazed/disturbed or wetland vegetation would likely be more prominent.
SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-0.5</td>
<td>10YR 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5-16</td>
<td>10YR 3/6</td>
<td>90</td>
<td>2.5YR 3/6</td>
<td>10</td>
<td>C</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

Hydric Soil Present? Yes ☑ No ☐

Remarks: Directly below a culvert, rip rap/fill is present in low quantity. Muck would likely be more developed without cattle grazing/trampling and based on directly adjacent wetland areas on either side of sample point. A depression feature is evident surrounding the sample point within the channel.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

- Surface Water Present? Yes ☑ No ☐ Depth (inches): 14
- Water Table Present? Yes ☑ No ☐ Depth (inches): 14
- Saturation Present? Yes ☑ No ☐ (includes capillary fringe) Depth (inches): 14

Wetland Hydrology Present? Yes ☑ No ☐

Remarks:

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers
Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner
Landform (hillslope, terrace, etc.): Drainage channel
Subregion (LRR): Mediterranean California

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☐ No ☐
Hydric Soil Present? Yes ☐ No ☐
Wetland Hydrology Present? Yes ☐ No ☐

Remarks: Project site is actively grazed by cattle throughout.

Vegetation

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Status</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: 4 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Sapling/Shrub Stratum               |                  |                   |                  |       |                  |
| 1. Salix sp.                        | 3                 | Yes               | FACW             |       |                  |
| 2. Populus fremontii                | 1                 | Yes               | FAC              |       |                  |
| 3.                                  |                   |                   |                  |       |                  |
| 4.                                  |                   |                   |                  |       |                  |
| Total Cover: 4 %                    |                  |                   |                  |       |                  |

| Herb Stratum                        |                  |                   |                  |       |                  |
| 1. Centaurea solstitialis           | 2                 | Yes               | Not Listed       |       |                  |
| 2. Juncus sp                        | 2                 | Yes               | FACW             |       |                  |
| 3. Aegilops triuncialis            | 1                 | No                | Not Listed       |       |                  |
| 4. Typha sp                         | 1                 | No                | OBL              |       |                  |
| 5.                                  |                   |                   |                  |       |                  |
| 6.                                  |                   |                   |                  |       |                  |
| 7.                                  |                   |                   |                  |       |                  |
| 8.                                  |                   |                   |                  |       |                  |
| Total Cover: 4 %                    |                  |                   |                  |       |                  |

| Woody Vine Stratum                  |                  |                   |                  |       |                  |
| 1.                                  |                  |                   |                  |       |                  |
| 2.                                  |                  |                   |                  |       |                  |
| Total Cover: 6 %                    |                  |                   |                  |       |                  |

| % Bare Ground in Herb Stratum       | 94 %             | % Cover of Biotic Crust |  |

Remarks: Feature is significantly grazed/disturbed or wetland vegetation would likely be more prominent.

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0%
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Hydrophytic Vegetation Present? Yes ☐ No ☐

Prevalence Index = B/A = 2.90

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0%
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Hydrophytic Vegetation Present? Yes ☐ No ☐
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>Gley 1 2.5/10Y</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
<td>Muck</td>
<td>Loam</td>
</tr>
<tr>
<td>1-6</td>
<td>10YR 4/4</td>
<td>85</td>
<td>2.5YR 3/6</td>
<td>15</td>
<td>C</td>
<td>Loam</td>
<td>Redox Depressions (F8)</td>
<td>Vernal Pools (F9)</td>
</tr>
</tbody>
</table>

1. **Type:** C=Concentration, D=Depletion, RM=Reduced Matrix.  
2. **Location:** PL=Pore Lining, RC=Root Channel, M=Matrix.  
4. **Indicators of hydrophytic vegetation and wetland hydrology must be present.**

#### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)  
- Histic Epipedon (A2)  
- Black Histic (A3)  
- Hydrogen Sulfide (A4)  
- Stratified Layers (A5) (LRR C)  
- 1 cm Muck (A9) (LRR D)  
- Depleted Below Dark Surface (A11)  
- Thick Dark Surface (A12)  
- Sandy Mucky Mineral (S1)  
- Sandy Gleyed Matrix (S4)  

#### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)  
- 2 cm Muck (A10) (LRR B)  
- Reduced Vertic (F18)  
- Red Parent Material (TF2)  
- Other (Explain in Remarks)  

#### Restrictive Layer (if present):

- **Type:** Rock  
- **Depth (inches):** 6  
- **Hydric Soil Present?** Yes ☑️ No ☐

**Remarks:** Directly below a culvert, rip rap/fill is present in low quantity.

---

### HYDROLOGY

#### Wetland Hydrology Indicators:

- **Primary Indicators (any one indicator is sufficient):**
  - Surface Water (A1)  
  - High Water Table (A2)  
  - Saturation (A3)  
  - Water Marks (B1) (Nonriverine)  
  - Sediment Deposits (B2) (Nonriverine)  
  - Drift Deposits (B3) (Nonriverine)  
  - Surface Soil Cracks (B6)  
  - Inundation Visible on Aerial Imagery (B7)  
  - Water-Stained Leaves (B9)  

- **Secondary Indicators (2 or more required):**
  - Salt Crust (B11)  
  - Biotic Crust (B12)  
  - Aquatic Invertebrates (B13)  
  - Hydrogen Sulfide Odor (C1)  
  - Oxidized Rhizospheres along Living Roots (C3)  
  - Presence of Reduced Iron (C4)  
  - Recent Iron Reduction in Plowed Soils (C6)  
  - Saturation Visible on Aerial Imagery (C9)  
  - Shallow Aquitard (D3)  
  - FAC-Neutral Test (D5)  

#### Field Observations:

- **Surface Water Present?** Yes ☑️ No ☐  
  **Depth (inches):** 6  
- **Water Table Present?** Yes ☑️ No ☐  
  **Depth (inches):** 6  
- **Saturation Present?** Yes ☑️ No ☐  
  **Depth (inches):** 6  
- **Wetland Hydrology Present?** Yes ☑️ No ☐

**Remarks:** Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.
**WETLAND DETERMINATION DATA FORM - Arid West Region**

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform (hillslope, terrace, etc.):** Drainage channel  
**State:** CA  
**Sampling Point:** 1-10 wet

---

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Number of Dominant Species That Are OBL, FACW, or FAC: 0</th>
<th>Total Number of Dominant Species Across All Strata: 5</th>
<th>Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 %</th>
<th>Prevalence Index = B/A = 4.80</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
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<tr>
<td>3.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: 5 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Sapling/Shrub Stratum             |                 |                   |                 |
| 1.                                 |                 |                   |                 |
| 2.                                 |                 |                   |                 |
| 3.                                 |                 |                   |                 |
| 4.                                 |                 |                   |                 |
| 5.                                 |                 |                   |                 |
| Total Cover: 5 %                   |                 |                   |                 |

| Herb Stratum                      |                 |                   |                 |
| 1. *Vicia villosa*                | 1               | Yes               | Not Listed      |
| 2. *Centaurea solstitialis*       | 1               | Yes               | Not Listed      |
| 3. *Medicago polymorpha*          | 1               | Yes               | FACU            |
| 4. *Avena sp.*                    | 1               | Yes               | UPL             |
| 5. *Aegilops triuncialis*         | 1               | Yes               | Not Listed      |
| 6.                                 |                 |                   |                 |
| 7.                                 |                 |                   |                 |
| 8.                                 |                 |                   |                 |
| Total Cover: 95 %                  |                 |                   |                 |

| Woody Vine Stratum                |                 |                   |                 |
| 1.                                 |                 |                   |                 |
| 2.                                 |                 |                   |                 |
| Total Cover: 5 %                   |                 |                   |                 |

| % Bare Ground in Herb Stratum     | 95 %            | % Cover of Biotic Crust |

Remarks: Project site is actively grazed by cattle throughout.

---

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Indicators of hydric soil and wetland hydrology must be present.

---

Hydrophytic Vegetation Present? Yes ☐ No ☐

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

- Hydrophytic Vegetation Present? Yes ☐ No ☐
- Hydric Soil Present? Yes ☐ No ☐
- Wetland Hydrology Present? Yes ☐ No ☐
- Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
- Are Vegetation, Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐ (If needed, explain any answers in Remarks.)
- Are Vegetation, Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
- Is the Sampled Area within a Wetland? Yes ☐ No ☐

Remarks:
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Color (moist) %</td>
<td>Color (moist) %</td>
<td>Type Loc Remarks</td>
</tr>
<tr>
<td>0-2</td>
<td>7.5YR 4/6 98</td>
<td>2.5YR 3/6 1 C M</td>
<td>Sand</td>
</tr>
<tr>
<td></td>
<td>10YR 8/1 1 D M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-16</td>
<td>7.5YR 4/6 100</td>
<td></td>
<td>Sand</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):
- Type:
- Depth (inches):
- Hydric Soil Present? Yes ☐ No ☐
- Remarks:

### HYDROLOGY

#### Wetland Hydrology Indicators:
(Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

#### Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

#### Field Observations:
- Surface Water Present? Yes ☐ No ☐ Depth (inches):
- Water Table Present? Yes ☐ No ☐ Depth (inches):
- Saturation Present? Yes ☐ No ☐ Depth (inches):

#### Wetland Hydrology Present? Yes ☐ No ☐

### Remarks:

US Army Corps of Engineers
Project/Site: Janus Solar  City/County: Colusa County  Sampling Date: 1/19/2021
Applicant/Owner: RWE Solar Development, LLC  State: CA  Sampling Point: 2-1 wet
Investigator(s): Daniel Berg, Monique O'Connor  Section, Township, Range: 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W
Landform (hillslope, terrace, etc.): Plain  Local relief (concave, convex, none): None  Slope (%): 1
Subregion (LRR): C - Mediterranean California  Lat: Refer to Map  Long: Refer to Map  Datum: N/A
Soil Map Unit Name: Capay clay loam  NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐  No ☐  (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? ☒  Are "Normal Circumstances" present? Yes ☐  No ☐
Are Vegetation Soil or Hydrology naturally problematic? ☐  (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Present?</th>
<th>Yes ☐  No ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydric Soil Present?</td>
<td>Yes ☐  No ☐</td>
</tr>
<tr>
<td>Wetland Hydrology Present?</td>
<td>Yes ☐  No ☐</td>
</tr>
</tbody>
</table>

Remarks: Project site is actively grazed by cattle throughout.

### VEGETATION

#### Tree Stratum

<table>
<thead>
<tr>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Dominant Species That Are OBL, FACW, or FAC:</td>
</tr>
<tr>
<td>Total Number of Dominant Species Across All Strata:</td>
</tr>
<tr>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td>
</tr>
</tbody>
</table>

#### Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>Multiply by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
</tr>
<tr>
<td>FACW species</td>
</tr>
<tr>
<td>FAC species</td>
</tr>
<tr>
<td>FACU species</td>
</tr>
<tr>
<td>UPL species</td>
</tr>
</tbody>
</table>

| Column Totals: | 60 (A) | 300 (B) |

Prevalence Index = B/A = 5.00

### Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

- Indicators of hydric soil and wetland hydrology must be present.

#### Woody Vine Stratum

| Total Cover: 60% |

Remarks:
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10</td>
<td>10.5YR 3/2</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
<td></td>
</tr>
<tr>
<td>10-16</td>
<td>10.5YR 3/2</td>
<td>97</td>
<td>5YR 4/6</td>
<td>3</td>
<td>C</td>
<td>M</td>
<td>Silty clay loam</td>
<td></td>
</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

#### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)
- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

#### Indicators for Problematic Hydric Soils:
- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

#### Restrictive Layer (if present): 
- Type: 
- Depth (inches): 

#### Remarks: 

---

### HYDROLOGY

#### Wetland Hydrology Indicators:

- **Primary Indicators (any one indicator is sufficient)**
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- **Secondary Indicators (2 or more required)**
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drainage Patterns (B10)
  - Oxidized Rhizospheres along Living Roots (C3)
  - Presence of Reduced Iron (C4)
  - Recent Iron Reduction in Plowed Soils (C6)
  - Other (Explain in Remarks)

#### Field Observations:
- Surface Water Present? Yes ☐ No ☑ Depth (inches): 
- Water Table Present? Yes ☐ No ☑ Depth (inches): 
- Saturation Present? Yes ☐ No ☑ Depth (inches): 

#### Wetland Hydrology Present? Yes ☑ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No defined bed and bank but severely trampled by cows.
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar  City/County: Colusa County  State: CA  Sampling Date: 1/19/2021
Applicant/Owner: RWE Solar Development, LLC  Section, Township, Range: 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W
Investigator(s): Daniel Berg, Monique O'Connor  Soil Map Unit Name: Capay/Corning clay loam
Landform (hillslope, terrace, etc.): Plain  Lat: Refer to Map  NWI classification: None
Subregion (LRR): C - Mediterranean California  Long: Refer to Map  Datum: N/A
Soil Map Unit Name: Capay/Corning clay loam  (If no, explain in Remarks.)
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐  No ☐
Are Vegetation ☒  Soil ☒ or Hydrology ☐ significantly disturbed?  Are "Normal Circumstances" present? Yes ☐  No ☐
Are Vegetation ☐  Soil ☐ or Hydrology ☒ naturally problematic?  (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

- Hydrophytic Vegetation Present? Yes ☐  No ☐
- Hydric Soil Present? Yes ☐  No ☐
- Wetland Hydrology Present? Yes ☐  No ☐

Is the Sampled Area within a Wetland? Yes ☐  No ☐

Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

Tree Stratum (Use scientific names.)  Absolute % Cover  Dominant Species?  Indicator Status  Percent of Dominant Species That Are OBL, FACW, or FAC: 0 % (A)
1.  2.  3.  4.  Total Cover: %

Sapling/Shrub Stratum
1.  2.  3.  4.  5.  Total Cover: %

Herb Stratum
1. Erodium sp.  15 Yes FACU  OBL species x 1 = 0
2. Centaurea solstitialis  10 Yes Not Listed  FAC species x 2 = 0
3. Non-native grass  5 No Not Listed  FACU species 15 x 4 = 60
4.  5.  6.  7.  8.  Total Cover: %

Woody Vine Stratum
1.  2.  Total Cover: %

% Bare Ground in Herb Stratum 70 %  % Cover of Biotic Crust 0 %

Hydrophytic Vegetation Indicators:
- Dominance Test is >50% ☐
- Prevalence Index is ≤3.01 ☐
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐
- Problematic Hydrophytic Vegetation (Explain) ☐

Hydrophytic Vegetation Present? Yes ☐  No ☐

Remarks:
**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>7.5YR 3/2</td>
<td>100</td>
<td>Silty clay loam</td>
</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

**Indicators of Problematic Hydric Soils:**

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

**Restrictive Layer (if present):**

| Type: Compacted soil | Depth (inches): 6 |

**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

<table>
<thead>
<tr>
<th>Primary Indicators (any one indicator is sufficient)</th>
<th>Secondary Indicators (2 or more required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water (A1)</td>
<td>Water Marks (B1) (Riverine)</td>
</tr>
<tr>
<td>High Water Table (A2)</td>
<td>Sediment Deposits (B2) (Riverine)</td>
</tr>
<tr>
<td>Saturation (A3)</td>
<td>Drift Deposits (B3) (Riverine)</td>
</tr>
<tr>
<td>Water Marks (B1) (Nonriverine)</td>
<td>Drainage Patterns (B10)</td>
</tr>
<tr>
<td>Sediment Deposits (B2) (Nonriverine)</td>
<td>Dry-Season Water Table (C2)</td>
</tr>
<tr>
<td>Drift Deposits (B3) (Nonriverine)</td>
<td>Thin Muck Surface (C7)</td>
</tr>
<tr>
<td>Surface Soil Cracks (B6)</td>
<td>Crayfish Burrows (C8)</td>
</tr>
<tr>
<td>Inundation Visible on Aerial Imagery (B7)</td>
<td>Saturation Visible on Aerial Imagery (C9)</td>
</tr>
<tr>
<td>Water-Stained Leaves (B9)</td>
<td>Shallow Aquitard (D3)</td>
</tr>
</tbody>
</table>

**Field Observations:**

| Surface Water Present? | Yes | No |
| Water Table Present? | Yes |
| Saturation Present? (includes capillary fringe) | Yes |

**Wetland Hydrology Present?**

**Remarks:**

US Army Corps of Engineers
### VEGEATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Species</th>
<th>% Cover</th>
<th>Status</th>
<th>Indicator Status</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum (Use scientific names.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
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<td>2.</td>
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<td>3.</td>
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<td>4.</td>
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</tr>
<tr>
<td>Total Cover: %</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1.</td>
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<td>2.</td>
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<tr>
<td>Total Cover: %</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. <em>Centaurea solstitialis</em></td>
<td>15</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. <em>Hemizonia congesta</em></td>
<td>3</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3. <em>Erodium sp.</em></td>
<td>1</td>
<td>No</td>
<td>FACU</td>
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<tr>
<td>4.</td>
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<td>6.</td>
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<td>7.</td>
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<tr>
<td>8.</td>
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</tr>
<tr>
<td>Total Cover: %</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woody Vine Stratum</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>1.</td>
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<tr>
<td>2.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: %</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>% Bare Ground in Herb Stratum</td>
<td>81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Cover of Biotic Crust</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Remarks:

Project site is actively grazed by cattle throughout and trampling has occurred throughout this feature. Defined bed and bank have been lost in some areas.

---

### HYDROPHYTIC VEGETATION

- **Hydrophytic Vegetation Present?** Yes [ ] No [ ]
- **Hydric Soil Present?** Yes [ ] No [ ]
- **Wetland Hydrology Present?** Yes [ ] No [ ]

#### Remarks:

Hydrophytic Vegetation Present? Yes [ ] No [ ]

---

### SUMMARY OF FINDINGS

- **Is the Sampled Area within a Wetland?** Yes [ ] No [ ]

---

### HYDROPHYTIC VEGETATION Indicators

- **Prevalence Index**
  - Total % Cover of: Multiply by:
    - OBL species $x 1 = 0$
    - FACW species $x 2 = 0$
    - FAC species $x 3 = 0$
    - FACU species $x 4 = 4$
    - UPL species $x 5 = 90$
  - Column Totals: 19 [ ] 94 [ ]
  - Prevalence Index $= B/A = 4.95$

**Hydrophytic Vegetation Indicators:**

- **Dominance Test Test is >50%**
- **Prevalence Index is ≤30**
- **Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)**
- **Problematic Hydrophytic Vegetation 1 (Explain)**

---

1. Indicators of hydric soil and wetland hydrology must be present.
### Soil Description

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-8</td>
<td>7.5YR 3/1</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Silty clay loam</td>
<td></td>
</tr>
</tbody>
</table>

1. **Type:** C=Concentration, D=Depletion, RM=Reduced Matrix.
2. **Location:** PL=Pore Lining, RC=Root Channel, M=Matrix.

### Hydric Soil Indicators

- **Histosol (A1)**
- **Black Histic (A3)**
- **Hydrogen Sulfide (A4)**
- **Stratified Layers (A5) (LRR C)**
- **1 cm Muck (A9) (LRR D)**
- **Thick Dark Surface (A12)**
- **Sandy Mucky Mineral (S1)**
- **Sandy Gleyed Matrix (S4)**

### Restrictive Layer (if present):

- **Type:** Compacted soil
- **Depth (inches):**

### Hydric Soil Present?

- **Yes**
- **No**

### Remarks:

**Hydrology**

### Wetland Hydrology Indicators

- **Primary Indicators (any one indicator is sufficient):**
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- **Secondary Indicators (2 or more required):**
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Oxidized Rhizospheres along Living Roots (C3)
  - Presence of Reduced Iron (C4)
  - Recent Iron Reduction in Plowed Soils (C6)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

### Field Observations:

- **Surface Water Present?**
  - **Yes**
  - **No**
  - **Depth (inches):**
- **Water Table Present?**
  - **Yes**
  - **No**
  - **Depth (inches):**
- **Saturation Present?**
  - **Yes**
  - **No**
  - (includes capillary fringe)

### Wetland Hydrology Present?

- **Yes**
- **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

**Remarks:** Defined bed and bank are present in the vicinity of this sample point but are highly disturbed. Top 3 inches of soil are moist.
Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner
Landform (hillslope, terrace, etc.): Drainage channel
Subregion (LRR): Mediterranean California
Soil Map Unit Name: Capay clay loam/Ayar clay

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
Are Vegetation or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐ (If needed, explain any answers in Remarks.)
Are Vegetation or Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☐ No ☐
Hydric Soil Present? Yes ☐ No ☐
Wetland Hydrology Present? Yes ☐ No ☐

Is the Sampled Area within a Wetland? Yes ☐ No ☐

Remarks: Project site is actively grazed by cattle throughout and trampling has occurred throughout this feature. Defined bed and bank have been lost in some areas.

<table>
<thead>
<tr>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Dominant Species That Are OBL, FACW, or FAC:</td>
</tr>
<tr>
<td>Total Number of Dominant Species Across All Strata:</td>
</tr>
<tr>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC:</td>
</tr>
</tbody>
</table>

Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>OBL species</th>
<th>FACW species</th>
<th>FAC species</th>
<th>FACU species</th>
<th>UPL species</th>
<th>Column Totals:</th>
</tr>
</thead>
<tbody>
<tr>
<td>x 1 = 0</td>
<td>x 2 = 0</td>
<td>x 3 = 9</td>
<td>x 4 = 8</td>
<td>x 5 = 15</td>
<td>32 (B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevalence Index = B/A = 4.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Remarks:
### Soil Sampling Point:

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>10YR 3/4</td>
<td>98</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7.5YR 5/8</td>
<td>I</td>
<td>C</td>
<td>M</td>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-16</td>
<td>10YR 3/4</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7.5YR 8/1</td>
<td>I</td>
<td>D</td>
<td>M</td>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

#### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<table>
<thead>
<tr>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol (A1)</td>
</tr>
<tr>
<td>Histic Epipedon (A2)</td>
</tr>
<tr>
<td>Black Histic (A3)</td>
</tr>
<tr>
<td>Hydrogen Sulfide (A4)</td>
</tr>
<tr>
<td>Stratified Layers (A5) (LRR C)</td>
</tr>
<tr>
<td>1 cm Muck (A9) (LRR D)</td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
</tr>
<tr>
<td>Thick Dark Surface (A12)</td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
</tr>
<tr>
<td>Sandy Redox (SS)</td>
</tr>
<tr>
<td>Stripped Matrix (S6)</td>
</tr>
<tr>
<td>Loamy Mucky Mineral (F1)</td>
</tr>
<tr>
<td>Loamy Gleyed Matrix (F2)</td>
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<tr>
<td>Depleted Matrix (F3)</td>
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<tr>
<td>Redox Dark Surface (F6)</td>
</tr>
<tr>
<td>Redox Depressions (F8)</td>
</tr>
<tr>
<td>Vernal Pools (F9)</td>
</tr>
</tbody>
</table>

#### Restrictive Layer (if present):

- **Type:** Compacted soil

- **Depth (inches):**

**Remarks:**

#### Hydric Soil Present? Yes ☐ No ☐

### Hydrology

#### Wetland Hydrology Indicators:

- **Primary Indicators:** (any one indicator is sufficient)
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
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- **Secondary Indicators (2 or more required):**
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

#### Field Observations:

- **Surface Water Present?** Yes ☐ No ☐
- **Water Table Present?** Yes ☐ No ☐
- **Saturation Present?** Yes ☐ No ☐

**Wetland Hydrology Present?** Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

**Remarks:** Defined bed and bank are present in the vicinity of this sample point.
**Vegetation**

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Populus fremontii</em></td>
<td>30</td>
<td>Yes</td>
<td>FAC</td>
<td>Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td>Total Number of Dominant Species Across All Strata: 5 (B)</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> 30 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Sapling/Shrub Stratum             |                  |                  |                 |                           |
| 1.                                 |                 |                  |                 |                           |
| 2.                                 |                 |                  |                 |                           |
| 3.                                 |                 |                  |                 |                           |
| 4.                                 |                 |                  |                 |                           |
| 5.                                 |                 |                  |                 |                           |
| **Total Cover:** 30 %              |                 |                  |                 |                           |

| Herb Stratum                      |                  |                  |                 |                           |
| 1. *Juncus sp.*                   | 1               | Yes              | FACW            |                           |
| 2. *Centaurea solstitialis*       | 1               | Yes              | Not Listed      |                           |
| 3. *Medicago polymorpha*          | 1               | Yes              | FACU            |                           |
| 4. *Non-native grass*             | 1               | Yes              | Not Listed      |                           |
| 5.                                 |                 |                  |                 |                           |
| 6.                                 |                 |                  |                 |                           |
| 7.                                 |                 |                  |                 |                           |
| 8.                                 |                 |                  |                 |                           |
| **Total Cover:** %                |                 |                  |                 |                           |

| Woody Vine Stratum                |                  |                  |                 |                           |
| 1.                                 |                 |                  |                 |                           |
| 2.                                 |                 |                  |                 |                           |
| **Total Cover:** 4 %               |                 |                  |                 |                           |

| Remarks:                           | Project site is actively grazed by cattle throughout and trampling has occurred throughout this feature. Defined bed and bank have been lost in some areas. |

**Hydrophytic Vegetation Indicators:**

- Dominance Test is >50%
- Prevalence Index is ≤3.01
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

1Indicators of hydric soil and wetland hydrology must be present.

**Hydrophytic Vegetation Present?** Yes ☑ No ☐
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Redox Features</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>10YR 3/4</td>
<td>100</td>
<td>94</td>
<td>7.5YR 5/8</td>
<td>7.5YR 8/1</td>
<td>5</td>
<td>C</td>
<td>M</td>
<td>Loamy sand</td>
<td></td>
</tr>
<tr>
<td>4-16</td>
<td>10YR 3/4</td>
<td>100</td>
<td>100</td>
<td>7.5YR 8/1</td>
<td>7.5YR 8/1</td>
<td>1</td>
<td>D</td>
<td>M</td>
<td>Loamy sand</td>
<td></td>
</tr>
</tbody>
</table>

1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

<table>
<thead>
<tr>
<th>Indicator Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol</td>
<td>Sandy Redox (SS)</td>
</tr>
<tr>
<td>Histic Epipedon</td>
<td>Stripped Matrix (S6)</td>
</tr>
<tr>
<td>Black Histic</td>
<td>Loamy Mucky Mineral (F1)</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>Loamy Gleyed Matrix (F2)</td>
</tr>
<tr>
<td>Stratified Layers (A5)</td>
<td>Depleted Matrix (F3)</td>
</tr>
<tr>
<td>1 cm Muck (A9) (LRR C)</td>
<td>Redox Dark Surface (F6)</td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
<td>Depleted Dark Surface (F7)</td>
</tr>
<tr>
<td>Thick Dark Surface (A12)</td>
<td>Redox Depressions (F8)</td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
<td>Vernal Pools (F9)</td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
<td></td>
</tr>
</tbody>
</table>

### Restrictive Layer (if present):

- Type: Rock  
- Depth (inches): 10

### Hydric Soil Present?
Yes ☑ No ☐

### Remarks:

**Hydrology**

### Wetland Hydrology Indicators:

- Primary Indicators (any one indicator is sufficient)
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- Secondary Indicators (2 or more required)
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drift Deposits (B3) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

### Field Observations:

- Surface Water Present? Yes ☑ No ☐ Depth (inches):
- Water Table Present? Yes ☑ No ☐ Depth (inches):
- Saturation Present? Yes ☑ No ☐ Depth (inches):

### Wetland Hydrology Present?
Yes ☑ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

**Remarks:**
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner

Landform (hillslope, terrace, etc.): Disturbed drainage
Local relief (concave, convex, none): None

Subregion (LRR): Meditteranean California
Lat: Refer to Map
Long: Refer to Map
Datum: N/A

Soil Map Unit Name: Clear Lake/Ayar clay
NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significantly disturbed? Yes ☐ No ☐
Are Vegetation Soil or Hydrology naturally problematic? Yes ☐ No ☐ (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Is the Sampled Area within a Wetland? Yes ☐ No ☐

Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
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<td></td>
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<tr>
<td>3.</td>
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<tr>
<td>4.</td>
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<tr>
<td>5.</td>
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<tr>
<td>6.</td>
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<td></td>
<td></td>
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<tr>
<td>7.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Sapling/Shrub Stratum               |                 |                   |                 |
| 1.                                   |                 |                   |                 |
| 2.                                   |                 |                   |                 |
| 3.                                   |                 |                   |                 |
| 4.                                   |                 |                   |                 |
| 5.                                   |                 |                   |                 |
| Total Cover:                         |                 |                   |                 |

| Herb Stratum                        |                 |                   |                 |
| 1. *Aegilops triuncialis*           | 65              | Yes               | Not Listed      |
| 2. *Avena sp.*                      | 30              | Yes               | FACU            |
| 3.                                   |                 |                   |                 |
| 4.                                   |                 |                   |                 |
| 5.                                   |                 |                   |                 |
| 6.                                   |                 |                   |                 |
| 7.                                   |                 |                   |                 |
| 8.                                   |                 |                   |                 |
| Total Cover:                         |                 |                   |                 |

| Woody Vine Stratum                  |                 |                   |                 |
| 1.                                   |                 |                   |                 |
| 2.                                   |                 |                   |                 |
| Total Cover:                         |                 |                   |                 |

| % Bare Ground in Herb Stratum       | 5%              |                   |                 |

Remarks:

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Hydrophytic Vegetation Present? Yes ☐ No ☐

Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>Total % Cover of</th>
<th>Multiply by</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>x 1 = 0</td>
</tr>
<tr>
<td>FACW species</td>
<td>x 2 = 0</td>
</tr>
<tr>
<td>FAC species</td>
<td>x 3 = 0</td>
</tr>
<tr>
<td>FACU species</td>
<td>x 4 = 120</td>
</tr>
<tr>
<td>UPL species</td>
<td>x 5 = 325</td>
</tr>
<tr>
<td>Column Totals:</td>
<td>455</td>
</tr>
</tbody>
</table>

Prevalence Index = B/A = 4.68

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dominance Test is &gt;50%</td>
</tr>
<tr>
<td>Prevalence Index is ≤3.0</td>
</tr>
<tr>
<td>Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)</td>
</tr>
</tbody>
</table>

Remarks:

Arid West - Version 11-1-2006
### SOIL

#### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10YR 3/4</td>
<td></td>
<td>Silty clay loam</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Type: C=Concentration, D=Depletion, RM=Reduced Matrix.
2. Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol (A1)</td>
<td></td>
</tr>
<tr>
<td>Histic Epipedon (A2)</td>
<td></td>
</tr>
<tr>
<td>Black Histic (A3)</td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (A4)</td>
<td></td>
</tr>
<tr>
<td>Stratified Layers (A5)</td>
<td></td>
</tr>
<tr>
<td>1 cm Muck (A9) (LRR C)</td>
<td></td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
<td></td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
<td></td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
<td></td>
</tr>
<tr>
<td>Sandy Redox (S5)</td>
<td></td>
</tr>
<tr>
<td>Stripped Matrix (S6)</td>
<td></td>
</tr>
<tr>
<td>Loamy Mucky Mineral (F1)</td>
<td></td>
</tr>
<tr>
<td>Loamy Gleyed Matrix (F2)</td>
<td></td>
</tr>
<tr>
<td>Depleted Matrix (F3)</td>
<td></td>
</tr>
<tr>
<td>Redox Dark Surface (F6)</td>
<td></td>
</tr>
<tr>
<td>Redox Depressions (F8)</td>
<td></td>
</tr>
<tr>
<td>Vernal Pools (F9)</td>
<td></td>
</tr>
</tbody>
</table>

### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):

- Type: 
- Depth (inches): 

### Hydric Soil Present?

- Yes ☑
- No ☐

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

### Field Observations:

- Surface Water Present? Yes ☑
- Water Table Present? Yes ☑
- Saturation Present? Yes ☑

### Wetland Hydrology Present?

- Yes ☑
- No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
**VEGETATION**

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
<td><strong>1. Populus fremontii</strong></td>
<td>10</td>
<td>Yes</td>
<td><strong>FAC</strong></td>
<td></td>
<td>Project site is actively grazed by cattle throughout and trampling has occurred throughout this feature.</td>
</tr>
<tr>
<td></td>
<td><strong>2. Salix laevigata</strong></td>
<td>10</td>
<td>Yes</td>
<td><strong>FACW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>3. Salix goodingii</strong></td>
<td>10</td>
<td>Yes</td>
<td><strong>FACW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>______________________</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td><strong>1. Aegilops triuncialis</strong></td>
<td>50</td>
<td>Yes</td>
<td><strong>Not Listed</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>2. Rumex sp.</strong></td>
<td>5</td>
<td>No</td>
<td><strong>FACW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>3. Centaurea solstitialis</strong></td>
<td>3</td>
<td>No</td>
<td><strong>Not Listed</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>4. Erodium sp.</strong></td>
<td>1</td>
<td>No</td>
<td><strong>FACU</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>______________________</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td><strong>1. Aegilops triuncialis</strong></td>
<td>50</td>
<td>Yes</td>
<td><strong>Not Listed</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>2. Rumex sp.</strong></td>
<td>5</td>
<td>No</td>
<td><strong>FACW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>3. Centaurea solstitialis</strong></td>
<td>3</td>
<td>No</td>
<td><strong>Not Listed</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>4. Erodium sp.</strong></td>
<td>1</td>
<td>No</td>
<td><strong>FACU</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>______________________</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woody Vine Stratum</td>
<td><strong>1. Erodium sp.</strong></td>
<td>59</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>2. Erodium sp.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>______________________</td>
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<td></td>
</tr>
</tbody>
</table>

**Remarks:** Vegetation is grazed in this area so new sprouts of riparian trees likely don’t survive.
SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-12</td>
<td>10YR 3/3</td>
<td>2.5YR 4/8</td>
<td>C</td>
<td>Silty clay loam</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7.5YR 8/1</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.


Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

Hydric Soil Present? Yes ☐ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes ☐ No ☐

Field Observations:

- Surface Water Present? Yes ☐ No ☐ Depth (inches):_________
- Water Table Present? Yes ☐ No ☐ Depth (inches):_________
- Saturation Present? Yes ☐ No ☐ Depth (inches):_________

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
### WETLAND DETERMINATION DATA FORM - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform:** Pond slope  
**Soil Map Unit Name:** Ayar clay  
**Are climatic / hydrologic conditions on the site typical for this time of year?** Yes  
**Are Vegetation or Hydrology significantly disturbed?** Yes  
**Are "Normal Circumstances" present?** Yes  
**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
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<td>1.</td>
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<tr>
<td>Total Cover:</td>
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<tr>
<td>Sapling/Shrub</td>
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<td>Total Cover:</td>
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<tr>
<td>Herb Stratum</td>
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<tr>
<td>1.-Festuca perennis</td>
<td>15</td>
<td>Yes</td>
<td>FAC</td>
<td></td>
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<tr>
<td>2.-Phalaris sp.</td>
<td>15</td>
<td>Yes</td>
<td>FACW</td>
<td></td>
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<tr>
<td>3.-Medicago polymorpha</td>
<td>7</td>
<td>No</td>
<td>FACU</td>
<td></td>
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<tr>
<td>4.-Erodium sp.</td>
<td>3</td>
<td>No</td>
<td>FACU</td>
<td></td>
</tr>
<tr>
<td>5.-Aegilops triuncialis</td>
<td>2</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
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<tr>
<td>6.-Convolvulus arvensis</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
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<tr>
<td>7.-Centaurea solstitialis</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>8.-Polygonum aviculare</td>
<td>1</td>
<td>No</td>
<td>FAC</td>
<td></td>
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<tr>
<td>Total Cover:</td>
<td>45</td>
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<tr>
<td>Woody Vine Stratum</td>
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<td>1.</td>
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<td>2.</td>
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<tr>
<td>Total Cover:</td>
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</tbody>
</table>

**Remarks:**

- % Bare Ground in Herb Stratum: 55%
- % Cover of Biotic Crust: 0%

### Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.07
- Morphological Adaptations³ (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation³ (Explain)

³Indicators of hydric soil and wetland hydrology must be present.
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>10YR 5/6</td>
<td>95</td>
<td>5YR 5/8</td>
<td>5</td>
<td>C</td>
<td>M</td>
<td>Silty clay</td>
<td></td>
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</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

#### Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)  
- Histic Epipedon (A2)  
- Black Histic (A3)  
- Hydrogen Sulfide (A4)  
- Stratified Layers (A5) (LRR C)  
- 1 cm Muck (A9) (LRR D)  
- Depleted Below Dark Surface (A11)  
- Thick Dark Surface (A12)  
- Sandy Mucky Mineral (S1)  
- Sandy Gleyed Matrix (S4)  
- Sandy Redox (S5)  
- Stripped Matrix (S6)  
- Loamy Mucky Mineral (F1)  
- Loamy Gleyed Matrix (F2)  
- Depleted Matrix (F3)  
- Redox Dark Surface (F6)  
- Depleted Dark Surface (F7)  
- Redox Depressions (F8)  
- Vernal Pools (F9)  
- Redox Dark Surface (F6)  
- Depleted Dark Surface (F7)  
- Redox Depressions (F8)  
- Vernal Pools (F9)

#### Restrictive Layer (if present):  
- Type: Compacted soil  
- Depth (inches): 6

#### Hydric Soil Present?  Yes ☑ No ☐

#### Remarks:

---

### HYDROLOGY

#### Wetland Hydrology Indicators:

- Surface Water (A1)  
- High Water Table (A2)  
- Saturation (A3)  
- Water Marks (B1) (Nonriverine)  
- Sediment Deposits (B2) (Nonriverine)  
- Drift Deposits (B3) (Nonriverine)  
- Surface Soil Cracks (B6)  
- Inundation Visible on Aerial Imagery (B7)  
- Water-Stained Leaves (B9)  
- Salt Crust (B11)  
- Biotic Crust (B12)  
- Aquatic Invertebrates (B13)  
- Oxidized Rhizospheres along Living Roots (C3)  
- Presence of Reduced Iron (C4)  
- Recent Iron Reduction in Plowed Soils (C6)  
- Other (Explain in Remarks)

#### Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)  
- Sediment Deposits (B2) (Riverine)  
- Drainage Patterns (B10)  
- Dry-Season Water Table (C2)  
- Thin Muck Surface (C7)  
- Clayfish Burrows (C8)  
- Saturation Visible on Aerial Imagery (C9)  
- Shallow Aquitard (D3)  
- FAC-Neutral Test (D5)

#### Field Observations:

- Surface Water Present?  Yes ☑ No ☐  
- Water Table Present?  Yes ☑ No ☐  
- Saturation Present? (includes capillary fringe)  Yes ☑ No ☐

#### Wetland Hydrology Present?  Yes ☑ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

#### Remarks:

---

US Army Corps of Engineers
Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O'Connor
Soil Map Unit Name: Ayar clay
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
Are Vegetation or Hydrology significantly disturbed? ☒ ☐
Are "Normal Circumstances" present? Yes ☐ No ☒
Are Vegetation or Soil or Hydrology naturally problematic? ☐ ☒
Remarks: Project site is actively grazed by cattle throughout.

### VEGETATION

#### Tree Stratum

<table>
<thead>
<tr>
<th>(Use scientific names.)</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>4.</td>
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<tr>
<td>Total Cover:</td>
<td>%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum

<table>
<thead>
<tr>
<th>(Use scientific names.)</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>5.</td>
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<tr>
<td>Total Cover:</td>
<td>%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Herb Stratum

<table>
<thead>
<tr>
<th>(Use scientific names.)</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aegilops triuncialis</td>
<td>58</td>
<td>Yes</td>
<td>Not Listed</td>
</tr>
<tr>
<td>2. Avena sp.</td>
<td>38</td>
<td>Yes</td>
<td>FACU</td>
</tr>
<tr>
<td>3. Vicia villosa</td>
<td>3</td>
<td>No</td>
<td>Not Listed</td>
</tr>
<tr>
<td>4. Lupinus sp.</td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
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<tr>
<td>5.</td>
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<td>8.</td>
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<tr>
<td>Total Cover:</td>
<td>%</td>
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</tbody>
</table>

#### Woody Vine Stratum

<table>
<thead>
<tr>
<th>(Use scientific names.)</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<tr>
<td>Total Cover:</td>
<td>%</td>
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<td></td>
</tr>
</tbody>
</table>

### Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index = B/A = 4.62

### Remarks:

- Indicators of hydrophytic vegetation must be present.
SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Color (moist)</td>
<td>%</td>
</tr>
<tr>
<td>0-12</td>
<td>10YR 4/4</td>
<td>100</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Depleted Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

Indicators of Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

<table>
<thead>
<tr>
<th>Type:</th>
<th>Depth (inches):</th>
</tr>
</thead>
</table>

Hydric Soil Present? Yes ❑ No ❑

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Thin Muck Surface (C7)
- Clayfish Burrows (C8)
- Wetland Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

- Surface Water Present? Yes ❑ No ❑ Depth (inches): 
- Water Table Present? Yes ❑ No ❑ Depth (inches): 
- Saturation Present? Yes ❑ No ❑ Depth (inches): (includes capillary fringe)

Wetland Hydrology Present? Yes ❑ No ❑

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

US Army Corps of Engineers
**WETLAND DETERMINATION DATA FORM - Arid West Region**

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform (hillslope, terrace, etc.):** Pond  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Ayar clay  
**Vegetation Dominance Test worksheet:**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>(Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td></td>
<td>Total Cover: 66.7%</td>
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</tbody>
</table>

**Hydrophytic Vegetation Indicators:**

- **Dominance Test worksheet:**
  - Number of Dominant Species That Are OBL, FACW, or FAC: **2** (A)  
  - Total Number of Dominant Species Across All Strata: **3** (B)  
  - Percent of Dominant Species That Are OBL, FACW, or FAC: **66.7%** (A/B)  

- **Prevalence Index worksheet:**
  - OBL species: **10** (A)  
  - FACW species: **2** (B)  
  - FAC species: **2** (C)  
  - FACU species: **5** (D)  
  - UPL species: **1** (E)  
  - Column Totals: **35** (F)  
  - Prevalence Index = B/A = **3.50**  

- **Hydrophytic Vegetation Indicators:**
  - Dominance Test is >50%
  - Prevalence Index is ≤3.01
  - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation (Explain)

**Remarks:**

- Project site is actively grazed by cattle throughout.

---

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

- Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☑ No ☐ (If no, explain in Remarks.)
- Are Vegetation Soil or Hydrology significantly disturbed? Yes ☑ No ☐
- Are Vegetation Soil or Hydrology naturally problematic? Yes ☑ No ☐ (If needed, explain any answers in Remarks.)

- Are Hydrophytic Vegetation Present? Yes ☑ No ☐
- Are Hydric Soil Present? Yes ☑ No ☐
- Are Wetland Hydrology Present? Yes ☑ No ☐

- Is the Sampled Area within a Wetland? Yes ☑ No ☐

**Remarks:**

- Project site is actively grazed by cattle throughout.
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Location</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>10YR 5/6</td>
<td>92</td>
<td>5YR 5/8</td>
<td>7</td>
<td>C</td>
<td>M</td>
<td>Silty clay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.5YR 3/6</td>
<td>1</td>
<td>C</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-16</td>
<td>10YR 5/6</td>
<td>83</td>
<td>5YR 5/8</td>
<td>7</td>
<td>C</td>
<td>M</td>
<td>Silty clay</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.5YR 3/6</td>
<td>9</td>
<td>C</td>
<td>M</td>
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<td>7.5YR 8/3</td>
<td>1</td>
<td>D</td>
<td>M</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

---

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)  
- Surface Water (A1)  
- High Water Table (A2)  
- Saturation (A3)  
- Water Marks (B1) (Nonriverine)  
- Sediment Deposits (B2) (Nonriverine)  
- Drift Deposits (B3) (Nonriverine)  
- Surface Soil Cracks (B6)  
- Inundation Visible on Aerial Imagery (B7)  
- Water-Stained Leaves (B9)

Secondary Indicators (2 or more required)  
- Salt Crust (B11)  
- Biotic Crust (B12)  
- Aquatic Invertebrates (B13)  
- Hydrogen Sulfide Odor (C1)  
- Oxidized Rhizospheres along Living Roots (C3)  
- Presence of Reduced Iron (C4)  
- Recent Iron Reduction in Plowed Soils (C6)  
- Other (Explain in Remarks)  
- Water Marks (B1) (Riverine)  
- Sediment Deposits (B2) (Riverine)  
- Drainage Patterns (B10)  
- Thin Muck Surface (C7)  
- Crayfish Burrows (C8)  
- Saturation Visible on Aerial Imagery (C9)  
- Shallow Aquitard (D3)  
- FAC-Neutral Test (D5)

**Field Observations:**

- Surface Water Present? Yes ☑️ No ☐ Depth (inches):  
- Water Table Present? Yes ☑️ No ☐ Depth (inches):  
- Saturation Present? (includes capillary fringe) Yes ☑️ No ☐ Depth (inches):  

**Wetland Hydrology Present?** Yes ☑️ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

**Remarks:** Soil is slightly damp at depth of 6-16 inches.
**VEGETATION**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>(Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td></td>
<td>Total Cover:</td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td></td>
<td>Total Cover:</td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Festuca perennis</td>
<td></td>
<td>10</td>
<td>Yes</td>
<td>FAC</td>
<td></td>
</tr>
<tr>
<td>2. Phalaris sp.</td>
<td></td>
<td>10</td>
<td>Yes</td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>3. Medicago polymorpha</td>
<td></td>
<td>7</td>
<td>Yes</td>
<td>FACU</td>
<td></td>
</tr>
<tr>
<td>4. Erodium sp.</td>
<td></td>
<td>3</td>
<td>No</td>
<td>FACU</td>
<td></td>
</tr>
<tr>
<td>5. Aegilops triuncialis</td>
<td></td>
<td>3</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>6. Polygonum aviculare</td>
<td></td>
<td>1</td>
<td>No</td>
<td>FAC</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>8.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Woody Vine Stratum</td>
<td></td>
<td>Total Cover:</td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
<td></td>
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<td></td>
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<tr>
<td>Total Cover:</td>
<td></td>
<td>34 %</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Remarks:**
- Project site is actively grazed by cattle throughout.

**Hydrophytic Vegetation Indicators:**
- Dominance Test is >50%
- Prevalence Index is ≤3.01
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

1Indicators of hydric soil and wetland hydrology must be present.

**Hydrophytic Vegetation Present?** Yes ☑ No ☐

**Soil Map Unit Name:** Ayar clay

**NWI classification:** None

**SUMMARY OF FINDINGS**

- Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☑ No ☐
- Are Vegetation, Soil or Hydrology significantly disturbed? Yes ☑ No ☐
- Are Vegetation, Soil or Hydrology naturally problematic? Yes ☑ No ☐

**Remarks:**
- Project site is actively grazed by cattle throughout.

**Hydrophytic Vegetation Present?** Yes ☑ No ☐
- Hydric Soil Present? Yes ☑ No ☐
- Wetland Hydrology Present? Yes ☑ No ☐
- Is the Sampled Area within a Wetland? Yes ☑ No ☐

**Hydrophytic Vegetation Indicators:**
- Prevalence Index is ≤3.01
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

**Hydrophytic Vegetation**

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polygonum aviculare</td>
<td>10</td>
<td>Yes</td>
<td>FAC</td>
</tr>
<tr>
<td>Medicago polymorpha</td>
<td>7</td>
<td>Yes</td>
<td>FACU</td>
</tr>
<tr>
<td>Erodium sp.</td>
<td>3</td>
<td>No</td>
<td>FACU</td>
</tr>
<tr>
<td>Aegilops triuncialis</td>
<td>3</td>
<td>No</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Festuca perennis</td>
<td>10</td>
<td>Yes</td>
<td>FACW</td>
</tr>
</tbody>
</table>

**Prevalence Index:**

| OBL species | 10 | Multiply by: | 108 |
| FACCW species| 10 | = 20 |
| FAC species  | 11 | = 33 |
| FACU species | 10 | = 40 |
| UPL species  | 3  | = 15 |
| Column Totals| 34 |  (A)      |

**Prevalence Index =** B/A = 3.18

**Remarks:** Project site is actively grazed by cattle throughout.
### SOIL

**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type¹</th>
<th>Loc²</th>
<th>Texture³</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-12</td>
<td>10YR 5/6</td>
<td>99</td>
<td>5YR 5/8</td>
<td>1</td>
<td>C</td>
<td>M</td>
<td>Silty clay</td>
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</tr>
</tbody>
</table>

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. ³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

- **Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)
  - Histosol (A1)
  - Histic Epipedon (A2)
  - Black Histic (A3)
  - Hydrogen Sulfide (A4)
  - Stratified Layers (A5) (LRR C)
  - 1 cm Muck (A9) (LRR D)
  - Depleted Below Dark Surface (A11)
  - Thick Dark Surface (A12)
  - Sandy Mucky Mineral (S1)
  - Sandy Gleyed Matrix (S4)

- **Indicators for Problematic Hydric Soils:**
  - 1 cm Muck (A9) (LRR C)
  - 2 cm Muck (A10) (LRR B)
  - Reduced Vertic (F18)
  - Red Parent Material (TF2)
  - Other (Explain in Remarks)

- **Restrictive Layer (if present):**
  - Type: ____________________________
  - Depth (inches): ______________________

- **Hydric Soil Present?** Yes ☐ No ☐

- **Remarks:** Low percent redox, does not meet F8.

### HYDROLOGY

**Wetland Hydrology Indicators:**

- **Primary Indicators (any one indicator is sufficient)**
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)

- **Secondary Indicators (2 or more required)**
  - Salt Crust (B11)
  - Biotic Crust (B12)
  - Aquatic Invertebrates (B13)
  - Hydrogen Sulfide Odor (C1)
  - Oxidized Rhizospheres along Living Roots (C3)
  - Presence of Reduced Iron (C4)
  - Recent Iron Reduction in Plowed Soils (C6)
  - Other (Explain in Remarks)
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drift Deposits (B3) (Riverine)
  - Drainage Patterns (B10)
  - Dry-Season Water Table (C2)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

- **Field Observations:**
  - Surface Water Present? Yes ☐ No ☐ Depth (inches): ________
  - Water Table Present? Yes ☐ No ☐ Depth (inches): ________
  - Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): ________

- **Wetland Hydrology Present?** Yes ☐ No ☐

- **Remarks:** Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.
### WETLAND DETERMINATION DATA FORM - Arid West Region

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**City/County:** Colusa County  
**State:** CA  
**Sampling Date:** 1/21/2021  
**Investigator(s):** Daniel Berg, Monique O'Connor  
**Landform (hillslope, terrace, etc.):** Pond slope  
**Section, Township, Range:** 1-3, 25, 26, 29, 30, 35; 14N, 15N; 3W, 4W  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Ayar clay  
**NWI classification:** R4SBC  
**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
<td><em>Populus fremontii</em></td>
<td>3</td>
<td>Yes</td>
<td>FAC</td>
<td>FAC</td>
</tr>
<tr>
<td>Sapling/Shrub</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td><em>Festuca perennis</em></td>
<td>90</td>
<td>Yes</td>
<td>FAC</td>
<td>FAC</td>
</tr>
<tr>
<td>Woody Vine</td>
<td><em>Phalaris sp.</em></td>
<td>5</td>
<td>No</td>
<td>FAC</td>
<td>FACW</td>
</tr>
<tr>
<td></td>
<td><em>Polygonum aviculare</em></td>
<td>3</td>
<td>No</td>
<td>FAC</td>
<td>FAC</td>
</tr>
<tr>
<td></td>
<td><em>Convolvulus arvensis</em></td>
<td>3</td>
<td>No</td>
<td>Not Listed</td>
<td>FAC</td>
</tr>
<tr>
<td></td>
<td><em>Avena sp.</em></td>
<td>2</td>
<td>No</td>
<td>UPL</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Aegilops triuncialis</em></td>
<td>2</td>
<td>No</td>
<td>Not Listed</td>
<td>FACW</td>
</tr>
<tr>
<td></td>
<td><em>Centaurea solstitialis</em></td>
<td>1</td>
<td>No</td>
<td>FAC</td>
<td>FAC</td>
</tr>
<tr>
<td>Total Cover</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Bare Ground in Herb Stratum</td>
<td></td>
<td>0</td>
<td>% Cover of Biotic Crust</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Present?** Yes (A)  
**Total Number of Dominant Species Across All Strata:** 2 (B)  
**Percent of Dominant Species That Are OBL, FAC, or FAC:** 100.0% (A/B)  

**Prevalence Index worksheet:**

<table>
<thead>
<tr>
<th>Total % Cover of Species</th>
<th>Multiply by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>x 1 = 0</td>
</tr>
<tr>
<td>FACW species</td>
<td>x 2 = 12</td>
</tr>
<tr>
<td>FAC species</td>
<td>x 3 = 288</td>
</tr>
<tr>
<td>FACU species</td>
<td>x 4 = 0</td>
</tr>
<tr>
<td>UPL species</td>
<td>x 5 = 40</td>
</tr>
<tr>
<td>Column Totals</td>
<td>110 (A)</td>
</tr>
<tr>
<td></td>
<td>340 (B)</td>
</tr>
</tbody>
</table>

**Prevalence Index = B/A = 3.09**

**Hydrophytic Vegetation Indicators:**

- **Dominance Test is >50%**
- **Prevalence Index is ≤3.0**
- **Morphological Adaptations** (Provide supporting data in Remarks or on a separate sheet)
- **Problematic Hydrophytic Vegetation** (Explain)

<table>
<thead>
<tr>
<th>Remarks:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SOIL

#### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10YR 3/4</td>
<td>2.5YR 3/6</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>5YR 4/6</td>
<td>1</td>
<td>C</td>
<td>M</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Red Parent Material (TF2)

Restrictive Layer (if present):

- Type: _______________________
- Depth (inches): _______________________

Hydric Soil Present? Yes ☐ No ☐

Remarks: _______________________

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

Secondary Indicators (2 or more required)

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)
- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drainage Patterns (B10)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

- Surface Water Present? Yes ☐ No ☐ Depth (inches): ________________
- Water Table Present? Yes ☐ No ☐ Depth (inches): ________________
- Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): ________________

Wetland Hydrology Present? Yes ☐ No ☐

Remarks: _______________________

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available.
WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Janus Solar
Applicant/Owner: RWE Solar Development, LLC
Investigator(s): Daniel Berg, Monique O’Conner

City/County: Colusa County
State: CA
Section, Township, Range: 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W

Landform (hillslope, terrace, etc.): Hillslope
Local relief (concave, convex, none): Concave
Slope (%): 10

Subregion (LRR): Mediterranean California

Soil Map Unit Name: Ayar clay
NWI classification: None

Soil Map Unit Name: Ayar clay
NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation Soil or Hydrology significantly disturbed? ☒
Are "Normal Circumstances" present? Yes ☐ No ☐

Are Vegetation Soil or Hydrology naturally problematic? ☐ (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☐ No ☒
Hydric Soil Present? Yes ☐ No ☒
Wetland Hydrology Present? Yes ☐ No ☒

Is the Sampled Area within a Wetland? Yes ☐ No ☒

Remarks: Project site is actively grazed by cattle throughout.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>(Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover:</td>
<td></td>
<td></td>
<td></td>
<td>%</td>
</tr>
</tbody>
</table>

| Sapling/Shrub Stratum | | | |
|-----------------------|------------------|-------------------|
| 1.                    |                  |                   |
| 2.                    |                  |                   |
| 3.                    |                  |                   |
| 4.                    |                  |                   |
| 5.                    |                  |                   |
| Total Cover:           | %                |                   |

| Herb Stratum | | | |
|--------------|------------------|-------------------|
| 1. Erodium sp. | 40 | Yes | FACU |
| 2. Aegilops triuncialis | 30 | Yes | Not Listed |
| 3. Avena sp. | 30 | Yes | FACU |
| 4. Achyrrachaena mollis | 5 | No | FAC |
| 5. Croton setiger | 3 | No | Not Listed |
| 6. Medicago polymorpha | 3 | No | FACU |
| 7. Plantago erecta | 2 | No | Not Listed |
| 8. | | | |
| Total Cover: | 113 % | |

| Woody Vine Stratum | | |
|-------------------|------------------|
| 1.                |                  |
| 2.                |                  |
| Total Cover:      | %                |

<table>
<thead>
<tr>
<th>% Bare Ground in Herb Stratum</th>
<th>% Cover of Biotic Crust</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 %</td>
<td>0 %</td>
</tr>
</tbody>
</table>

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 % (A/B)

Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>Total % Cover of:</th>
<th>Multiply by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBL species</td>
<td>x 1 = 0</td>
</tr>
<tr>
<td>FACW species</td>
<td>x 2 = 0</td>
</tr>
<tr>
<td>FAC species</td>
<td>x 3 = 15</td>
</tr>
<tr>
<td>FACU species</td>
<td>x 4 = 292</td>
</tr>
<tr>
<td>UPL species</td>
<td>x 5 = 175</td>
</tr>
<tr>
<td>Column Totals:</td>
<td>113 (A)</td>
</tr>
<tr>
<td></td>
<td>482 (B)</td>
</tr>
<tr>
<td>Prevalence Index  = B/A = 4.27</td>
<td></td>
</tr>
</tbody>
</table>

Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0%
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

Remarks: 1Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☐ No ☒
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Redox Features</th>
<th>Matrix</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10YR 4/4</td>
<td>100</td>
<td></td>
<td>Clay loam</td>
<td></td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Restrictive Layer (if present):
- Type: 
- Depth (inches): 

Hydric Soil Present? Yes [ ] No [ ]

Remarks:

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

Secondary Indicators (2 or more required)
- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Oxidized Rhizospheres along Living Roots (C3)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Other (Explain in Remarks)

#### Field Observations:
- Surface Water Present? Yes [ ] No [ ] Depth (inches):
- Water Table Present? Yes [ ] No [ ] Depth (inches):
- Saturation Present? Yes [ ] No [ ] Depth (inches):

Wetland Hydrology Present? Yes [ ] No [ ]

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
**WETLAND DETERMINATION DATA FORM - Arid West Region**

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform (hillslope, terrace, etc.):** Pond  
**Subregion (LRR):** Mediterranean California  
**Soil Map Unit Name:** Ayar clay  
**State:** CA  
**Sampling Date:** 1/21/2021

---

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td>Total Cover: %</td>
</tr>
<tr>
<td><strong>Total Cover:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> Exterior Herb Stratum:</td>
<td></td>
<td>Yes FAC</td>
<td></td>
</tr>
<tr>
<td>Polygonum aviculare</td>
<td>3</td>
<td>Yes FAC</td>
<td></td>
</tr>
<tr>
<td>Phalaris sp.</td>
<td>3</td>
<td>Yes FAC</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> Woody Vine Stratum:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Indicators:**
- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations
- Problematic Hydrophytic Vegetation

**Remarks:**
- Project site is actively grazed by cattle throughout.

---

### SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

- Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
- Are Vegetation Soil or Hydrology significantly disturbed? ☒ Yes ☐ No ☐
- Are "Normal Circumstances" present? Yes ☐ No ☐
- Are Vegetation Soil or Hydrology naturally problematic? ☒ Yes ☐ No ☐

**Remarks:**
- Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
- Are Vegetation Soil or Hydrology significantly disturbed? ☒ Yes ☐ No ☐
- Are "Normal Circumstances" present? Yes ☐ No ☐
- Are Vegetation Soil or Hydrology naturally problematic? ☒ Yes ☐ No ☐

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

- Hydrophytic Vegetation Present? Yes ☐ No ☐
- Hydric Soil Present? Yes ☐ No ☐
- Wetland Hydrology Present? Yes ☐ No ☐
- Is the Sampled Area within a Wetland? Yes ☐ No ☐

**Remarks:**
- Project site is actively grazed by cattle throughout.

---

### VEGETATION

**Dominance Test worksheet:**
- Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
- Total Number of Dominant Species Across All Strata: 2 (B)
- Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**
- Total % Cover of: Multiply by:
  - OBL species x 1 = 0
  - FACW species x 2 = 6
  - FAC species x 3 = 9
  - FACU species x 4 = 0
  - UPL species x 5 = 0
- Column Totals: 6 (A) 15 (B)
- Prevalence Index = B/A = 2.50

**Hydrophytic Vegetation Indicators:**
- X Dominance Test is >50%
- X Prevalence Index is ≤3.0
- Morphological Adaptations
- Problematic Hydrophytic Vegetation

**Remarks:**
- Project site is actively grazed by cattle throughout.

---

**Remarks:**
- Project site is actively grazed by cattle throughout.

---

**Remarks:**
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10YR 4/3</td>
<td>80</td>
<td>2.5YR 3/6</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5YR 4/6</td>
<td>10</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

Hydric Soil Present? Yes ☑ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

Field Observations:

- Surface Water Present? Yes ☑ No ☐ Depth (inches):
- Water Table Present? Yes ☑ No ☐ Depth (inches):
- Saturation Present? (includes capillary fringe) Yes ☑ No ☐ Depth (inches):

Wetland Hydrology Present? Yes ☑ No ☐

Remarks:

US Army Corps of Engineers
**WETLAND DETERMINATION DATA FORM - Arid West Region**

**Project/Site:** Janus Solar  | **City/County:** Colusa County  | **Sampling Date:** 1/21/2021

**Applicant/Owner:** RWE Solar Development, LLC  | **State:** CA  | **Sampling Point:** 8-1 wet

**Investigator(s):** Daniel Berg, Monique O’Conner  | **Section, Township, Range:** 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W

**Landform (hillslope, terrace, etc.):** Disturbed drainage  | **Local relief (concave, convex, none):** Concave  | **Slope (%):**

**Subregion (LRR):** C - Mediterranean California  | **Lat:** Refer to Map  | **Long:** Refer to Map  | **Datum:** N/A

**Soil Map Unit Name:** Ayar clay  | **NWI classification:** R4SBC

**Soil Map Unit Name:** Ayar clay  | **NWI classification:** R4SBC

**Are climatic / hydrologic conditions on the site typical for this time of year?** Yes ☐ No ☐ (If no, explain in Remarks.)

**Are Vegetation Soil or Hydrology significantly disturbed?** ☒

**Are Vegetation Soil or Hydrology naturally problematic?** ☐ (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

**Hydrophytic Vegetation Present?** Yes ☐ No ☐

**Hydric Soil Present?** Yes ☐ No ☐

**Wetland Hydrology Present?** Yes ☐ No ☐

**Is the Sampled Area within a Wetland?** Yes ☐ No ☐

**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salix laevigata</td>
<td>25</td>
<td>Yes</td>
<td>FACW</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> 25 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salix laevigata</td>
<td>5</td>
<td>Yes</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> 5 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Herb Stratum

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aegilops triuncialis</td>
<td>15</td>
<td>Yes</td>
</tr>
<tr>
<td>2. Avena sp.</td>
<td>15</td>
<td>Yes</td>
</tr>
<tr>
<td>3. Festuca perennis</td>
<td>15</td>
<td>Yes</td>
</tr>
<tr>
<td>4. Phalaris sp.</td>
<td>5</td>
<td>No</td>
</tr>
<tr>
<td>5. Erodium sp.</td>
<td>3</td>
<td>No</td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong> 53 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Woody Vine Stratum

<table>
<thead>
<tr>
<th>Tree Stratum (Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Cover:</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

- Project site is actively grazed by cattle throughout.

### Dominance Test worksheet:

- Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
- Total Number of Dominant Species Across All Strata: 5 (B)
- Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0 % (A/B)

### Prevalence Index worksheet:

- Total % Cover of:
  - OBL species: 35 x 1 = 35
  - FACW species: 5 x 2 = 10
  - FAC species: 15 x 3 = 45
  - FACU species: 3 x 4 = 12
  - UPL species: 30 x 5 = 150

- Column Totals: 83 (A) 277 (B)

- **Prevalence Index** = B/A = 3.34

### Hydrophytic Vegetation Indicators:

- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

- Indicators of hydric soil and wetland hydrology must be present.

### Hydrophytic Vegetation Present?** Yes ☐ No ☐
### SOIL

#### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-8</td>
<td>10YR 3/4</td>
<td>98</td>
<td>5YR 4/6</td>
<td>2</td>
<td>C</td>
<td>M</td>
<td>Silty clay loam</td>
<td></td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

#### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Redox Depressions (F8)
- Vernal Pools (F9)

#### Indicators of Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

#### Restrictive Layer (if present):

- Type: Compacted soil
- Depth (inches):

#### Remarks:

#### HYDROLOGY

#### Wetland Hydrology Indicators:

**Primary Indicators (any one indicator is sufficient)**

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

**Secondary Indicators (2 or more required)**

- Salt Crust (B11)
- Biotic Crust (B12)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Plowed Soils (C6)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

**Field Observations:**

- Surface Water Present? Yes ☐ No ☑ Depth (inches):
- Water Table Present? Yes ☐ No ☑ Depth (inches):
- Saturation Present? Yes ☐ No ☑ Depth (inches):

**Wetland Hydrology Present?** Yes ☑ No ☐
**WETLAND DETERMINATION DATA FORM - Arid West Region**

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC

**Investigator(s):** Daniel Berg, Monique O’Conner

**Landform:** Plain  
**Local relief:** Concave  
**Slope (%):** 1

**Subregion (LRR):** C - Mediterranean California  
**Lat:** Refer to Map  
**Long:** Refer to Map  
**Datum:** N/A

**Soil Map Unit Name:** Ayar clay  
**NWI classification:** R4SBC

**Hydrophytic Vegetation Present?** Yes ☐ No ☐  
**Hydric Soil Present?** Yes ☐ No ☐  
**Wetland Hydrology Present?** Yes ☐ No ☐

**Remarks:** Project site is actively grazed by cattle throughout.

### VEGETATION

#### Dominance Test worksheet:
- **Number of Dominant Species That Are OBL, FACW, or FAC:** 0 (A)
- **Total Number of Dominant Species Across All Strata:** 2 (B)
- **Percent of Dominant Species That Are OBL, FACW, or FAC:** 0.0% (A/B)

#### Prevalence Index worksheet:
- **OBL species**
- **FACW species**
- **FAC species**
- **FACU species**
- **UPL species**

- **Column Totals:** 29 (A) 131 (B)

**Prevalence Index = B/A = 4.52**

#### Hydrophytic Vegetation Indicators:
- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations
- Problematic Hydrophytic Vegetation

**Remarks:**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>(Use scientific names.)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Status</th>
<th>% Bare Ground in Herb Stratum</th>
<th>% Cover of Biotic Crust</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salix laevigata</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td>71</td>
<td>0</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: 29%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Centaurea solstitialis</td>
<td>10</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Aegilops triuncialis</td>
<td>10</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Medicago polymorpha</td>
<td>5</td>
<td>No</td>
<td>FACW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Rumex sp.</td>
<td>3</td>
<td>No</td>
<td>FACW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Hemizonia congesta</td>
<td>1</td>
<td>No</td>
<td>FACU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: 29%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Woody Vine Stratum</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Cover: 0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks:</th>
</tr>
</thead>
</table>

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>Redox Features</th>
<th>Type¹</th>
<th>Texture³</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>10YR 3/4</td>
<td>99</td>
<td>5YR 4/6</td>
<td>1 C M</td>
<td>Clay loam</td>
</tr>
</tbody>
</table>

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix. ³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):

- Type: Rock
- Depth (inches): 6

**Hydric Soil Present?** Yes ☐ No ☐

Remarks: Soil is very rocky and slightly moist.

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (any one indicator is sufficient)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1) (Nonriverine)
- Sediment Deposits (B2) (Nonriverine)
- Drift Deposits (B3) (Nonriverine)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Water-Stained Leaves (B9)

Secondary Indicators (2 or more required)

- Water Marks (B1) (Riverine)
- Sediment Deposits (B2) (Riverine)
- Drift Deposits (B3) (Riverine)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Thin Muck Surface (C7)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)

**Field Observations:**

- Surface Water Present? Yes ☐ No ☐ Depth (inches): __________
- Water Table Present? Yes ☐ No ☐ Depth (inches): __________
- Saturation Present? Yes ☐ No ☐ Depth (inches): __________

**Wetland Hydrology Present?** Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Bed and bank only present for a short distance due to trampling by cows.
Project/Site: Janus Solar  
Applicant/Owner: RWE Solar Development, LLC  
Investigator(s): Daniel Berg, Monique O'Connor  
Landform (hillslope, terrace, etc.): Plain  
Subregion (LRR): C - Mediterranean California  
Soil Map Unit Name: Capay clay loam  
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐  
Are Vegetation or Hydrology significantly disturbed? ☒  
Are Vegetation or Soil or Hydrology naturally problematic? ☐  
Are ‘Normal Circumstances’ present? Yes ☐ No ☐  
Hydrophytic Vegetation Present? Yes ☒ No ☐  
Hydric Soil Present? Yes ☒ No ☐  
Wetland Hydrology Present? Yes ☒ No ☐  
Is the Sampled Area within a Wetland? Yes ☒ No ☐  
Remarks: Active agricultural area that was recently planted this year.
### Profile Description:
(Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Texture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>10YR 3/2</td>
<td>100</td>
<td>Peat</td>
<td>Organic fertilizer, slightly moist</td>
</tr>
<tr>
<td>6-12</td>
<td>10YR 3/2</td>
<td>100</td>
<td>Loam</td>
<td></td>
</tr>
</tbody>
</table>

**Redox Features**
- **Color (moist)**
  - **%**

**Type:**
- **C=Concentration, D=Depletion, RM=Reduced Matrix.**

**Location:**
- **PL=Pore Lining, RC=Root Channel, M=Matrix.**

**Soil Textures:**

### Hydric Soil Indicators:
(Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

### Indicators for Problematic Hydric Soils:

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

### Restrictive Layer (if present):

- **Type:**
- **Depth (inches):**

### Hydrology

**Wetland Hydrology Indicators:**

- **Primary Indicators:**
  - Surface Water (A1)
  - High Water Table (A2)
  - Saturation (A3)
  - Water Marks (B1) (Nonriverine)
  - Sediment Deposits (B2) (Nonriverine)
  - Drift Deposits (B3) (Nonriverine)
  - Surface Soil Cracks (B6)
  - Inundation Visible on Aerial Imagery (B7)
  - Water-Stained Leaves (B9)
  - Salt Crust (B11)
  - Biotic Crust (B12)
  - Aquatic Invertebrates (B13)
  - Oxidized Rhizospheres along Living Roots (C3)
  - Presence of Reduced Iron (C4)
  - Recent Iron Reduction in Plowed Soils (C6)
  - Other (Explain in Remarks)

- **Secondary Indicators:**
  - Water Marks (B1) (Riverine)
  - Sediment Deposits (B2) (Riverine)
  - Drainage Patterns (B10)
  - Thin Muck Surface (C7)
  - Crayfish Burrows (C8)
  - Saturation Visible on Aerial Imagery (C9)
  - Shallow Aquitard (D3)
  - FAC-Neutral Test (D5)

### Field Observations:

- **Surface Water Present?** Yes ☐ No ☐ Depth (inches): 
- **Water Table Present?** Yes ☐ No ☐ Depth (inches): 
- **Saturation Present?** Yes ☐ No ☐ Depth (inches): 

### Wetland Hydrology Present? Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

**Remarks:**
**WETLAND DETERMINATION DATA FORM - Arid West Region**

**Project/Site:** Janus Solar  
**Applicant/Owner:** RWE Solar Development, LLC  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Landform (hillslope, terrace, etc.):** Disturbed drainage  
**Section, Township, Range:** 1-3, 25, 29, 30, 35; 14N, 15N; 3W, 4W  
**Investigator(s):** Daniel Berg, Monique O’Conner  
**Applicant/Owner:** RWE Solar Development, LLC  
**Landform (hillslope, terrace, etc.):** Disturbed drainage  
**State:** CA  

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

- **Hydrophytic Vegetation Present?** Yes ☐ No ☐
- **Hydric Soil Present?** Yes ☐ No ☐
- **Wetland Hydrology Present?** Yes ☐ No ☐
- **Hydrophytic Vegetation Present?** Yes ☐ No ☐

**Remarks:** Active agricultural area that was recently planted this year.

**VEGETATION**

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant</th>
<th>Indicator</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
<td><em>Salix laevigata</em></td>
<td>5</td>
<td>Yes</td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td><em>Triticum aestivum</em></td>
<td>40</td>
<td>Yes</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td><em>Malva parviflora</em></td>
<td>1</td>
<td>No</td>
<td>Not Listed</td>
<td></td>
</tr>
<tr>
<td>Woody Vine Stratum</td>
<td></td>
<td>41</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dominance Test worksheet:**

- Number of Dominant Species: 1 (A)
- Total Number of Dominant Species Across All Strata: 2 (B)
- Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**

- OBL species: x 1 = 0
- FACW species: x 2 = 10
- FAC species: x 3 = 0
- FACU species: x 4 = 0
- UPL species: x 5 = 205
- Column Totals: 46 (A) 215 (B)

**Hydrophytic Vegetation Indicators:**

- Dominance Test is >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation (Explain)

- **Hydrophytic Vegetation Present?** Yes ☐ No ☐

**Remarks:**

US Army Corps of Engineers
**Profile Description:** (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>%</th>
<th>Type</th>
<th>Loc</th>
<th>Redox Features</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>10YR 3/2</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Peat</td>
</tr>
<tr>
<td>6-16</td>
<td>10YR 3/2</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Loam</td>
</tr>
</tbody>
</table>

1Type: C=Concentration, D=Depletion, RM=Reduced Matrix.  
2Location: PL=Pore Lining, RC=Root Channel, M=Matrix.  

**Hydric Soil Indicators:** (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

**Indicators for Problematic Hydric Soils:**

- 1 cm Muck (A9) (LRR C)
- 2 cm Muck (A10) (LRR B)
- Reduced Vertic (F18)
- Red Parent Material (TF2)
- Other (Explain in Remarks)

**Restrictive Layer (if present):**

<table>
<thead>
<tr>
<th>Type:</th>
<th>Depth (inches):</th>
<th>Hydric Soil Present?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Remarks:**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

<table>
<thead>
<tr>
<th>Primary Indicators (any one indicator is sufficient)</th>
<th>Secondary Indicators (2 or more required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water (A1)</td>
<td>Water Marks (B1) (Riverine)</td>
</tr>
<tr>
<td>High Water Table (A2)</td>
<td>Sediment Deposits (B2) (Riverine)</td>
</tr>
<tr>
<td>Saturation (A3)</td>
<td>Drift Deposits (B3) (Riverine)</td>
</tr>
<tr>
<td>Water Marks (B1) (Nonriverine)</td>
<td>Drainage Patterns (B10)</td>
</tr>
<tr>
<td>Sediment Deposits (B2) (Nonriverine)</td>
<td>Dry-Season Water Table (C2)</td>
</tr>
<tr>
<td>Drift Deposits (B3) (Nonriverine)</td>
<td>Thin Muck Surface (C7)</td>
</tr>
<tr>
<td>Surface Soil Cracks (B6)</td>
<td>Crayfish Burrows (C8)</td>
</tr>
<tr>
<td>Inundation Visible on Aerial Imagery (B7)</td>
<td>Saturation Visible on Aerial Imagery (C9)</td>
</tr>
<tr>
<td>Water-Stained Leaves (B9)</td>
<td>Shallow Aquitard (D3)</td>
</tr>
<tr>
<td></td>
<td>FAC-Neutral Test (D5)</td>
</tr>
</tbody>
</table>

**Field Observations:**

<table>
<thead>
<tr>
<th>Surface Water Present?</th>
<th>Yes</th>
<th>No</th>
<th>Depth (inches):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Table Present?</td>
<td>Yes</td>
<td>No</td>
<td>Depth (inches):</td>
</tr>
<tr>
<td>Saturation Present?</td>
<td>Yes</td>
<td>No</td>
<td>Depth (inches):</td>
</tr>
</tbody>
</table>

**Wetland Hydrology Present?**

Yes | No

- **Significantly disturbed by active agricultural use, may have had hydrology before but is no longer present.**

US Army Corps of Engineers
APPENDIX B  PHOTOGRAPHS
<table>
<thead>
<tr>
<th>Photograph 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong></td>
<td>Feature 1</td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td>Overview photo of water inside Feature 1.</td>
</tr>
</tbody>
</table>

![Photograph 1](image1)

<table>
<thead>
<tr>
<th>Photograph 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong></td>
<td>Feature 1</td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td>Overview photo of water inside Feature 1.</td>
</tr>
</tbody>
</table>

![Photograph 2](image2)
Photograph 3

Location: Feature 1

Notes: Sample point 1-1a up.

Photograph 4

Location: Feature 1

Notes: Sample point 1-1a wet
Photograph 5

Location:  
Feature 1

Notes: Sample point 1-1b up.

Photograph 6

Location:  
Feature 1

Notes: Sample point 1-2a up.
**Photograph 7**

**Location:**
Feature 1

**Notes:** Sample point 1-2a wet.

---

**Photograph 8**

**Location:**
Feature 1

**Notes:** Sample point 1-2b up.
Photograph 9
Location: Feature 1
Notes: Sample point 1-3 wet.

Photograph 10
Location: Feature 1
Notes: Sample point 1-4 wet.
### Photograph 11

**Location:** Feature 1  
**Notes:** Sample point 1-5 wet.

![Photograph 11](image_url)

### Photograph 12

**Location:** Feature 1  
**Notes:** Sample point 1-6 wet.

![Photograph 12](image_url)
Photograph 13

**Location:**
Feature 1

**Notes:** Sample point 1-7 wet.

---

Photograph 14

**Location:**
Feature 1

**Notes:** Sample point 1-8 wet.
Jurisdictional Delineation Report

**Photograph 15**

**Location:** Feature 1

**Notes:** Sample point 1-9 wet.

---

**Photograph 16**

**Location:** Feature 1

**Notes:** Sample point 1-10 wet.
<table>
<thead>
<tr>
<th>Photograph 17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong> Feature 2</td>
</tr>
<tr>
<td><strong>Notes:</strong> Sample point 2-1 wet.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photograph 18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong> Feature 3</td>
</tr>
<tr>
<td><strong>Notes:</strong> Sample point 3-1 up.</td>
</tr>
</tbody>
</table>
Photograph 19
Location:
Feature 3
Notes: Sample point 3-1 wet.

Photograph 20
Location:
Feature 3
Notes: Sample point 3-2 wet.
Jurisdictional Delineation Report

Photograph 21

Location:
Feature 3

Notes: Sample point 3-3 wet.

Photograph 22

Location:
Feature 4

Notes: Sample point 4-1 up.
<table>
<thead>
<tr>
<th>Photograph 23</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 4</td>
<td>Notes: Sample point 4-1 wet.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photograph 24</th>
<th>Location:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature 5</td>
<td>Notes: Overview photo of Feature 5.</td>
</tr>
</tbody>
</table>
Photograph 25
Location: Feature 5
Notes: Overview photo of Feature 5.

Photograph 26
Location: Feature 5
Notes: Sample point 5-1 up.
Photograph 27

**Location:** Feature 5

**Notes:** Sample point 5-1 trans.

---

Photograph 28

**Location:** Feature 5

**Notes:** Sample point 5-1 wet.
### Photograph 29

**Location:**
Feature 6

**Notes:** Overview photo of Feature 6.

### Photograph 30

**Location:**
Feature 6

**Notes:** Sample point 6-1 wet.
<table>
<thead>
<tr>
<th>Photograph 31</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong></td>
<td>Feature 7</td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td>Overview photo of Feature 7.</td>
</tr>
</tbody>
</table>

![Photograph 31](image1.jpg)

<table>
<thead>
<tr>
<th>Photograph 32</th>
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</thead>
<tbody>
<tr>
<td><strong>Location:</strong></td>
<td>Feature 7</td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td>Overview photo of Feature 7.</td>
</tr>
</tbody>
</table>

![Photograph 32](image2.jpg)
Photograph 33
Location: Feature 7
Notes: Overview photo of Feature 7.

Photograph 34
Location: Feature 7
Notes: Sample point 7-1 up.
<table>
<thead>
<tr>
<th>Photograph 35</th>
<th>Photograph 36</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong></td>
<td><strong>Location:</strong></td>
</tr>
<tr>
<td><strong>Notes:</strong> Sample point 7-1 trans.</td>
<td><strong>Notes:</strong> Sample point 7-1 wet.</td>
</tr>
</tbody>
</table>
Photograph 37
Location: Feature 8
Notes: Overview photo of Feature 8.

Photograph 38
Location: Feature 8
Notes: Sample point 8-1 wet.
<table>
<thead>
<tr>
<th>Photograph 39</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong></td>
<td>Feature 9</td>
</tr>
<tr>
<td><strong>Notes:</strong> Sample point 9-1 wet.</td>
<td></td>
</tr>
</tbody>
</table>

**Photograph 40**

<table>
<thead>
<tr>
<th><strong>Location:</strong></th>
<th>Feature 10</th>
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</thead>
<tbody>
<tr>
<td><strong>Notes:</strong> Overview photo of Feature 10.</td>
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</tr>
<tr>
<td>Photograph 41</td>
<td><img src="image1.png" alt="Image" /></td>
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<tr>
<td>--------------</td>
<td>---------------------</td>
</tr>
<tr>
<td><strong>Location:</strong> Feature 10</td>
<td></td>
</tr>
<tr>
<td><strong>Notes:</strong> Sample point 10-1 up.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photograph 42</th>
<th><img src="image2.png" alt="Image" /></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location:</strong> Feature 10</td>
<td></td>
</tr>
<tr>
<td><strong>Notes:</strong> Sample point 10-1 wet.</td>
<td></td>
</tr>
</tbody>
</table>