



WETLAND DELINEATION REPORT

Clover Creek Solar Project LLC d/b/a New
Frontiers Solar Park —Breckinridge County,
Kentucky

Updated October 2024

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235300918

Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

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1	Original Report	Copperhead Environmental Consulting	9/26/2022
2	2024 Update	Kevin Rubio, Alethea Cheng	8/1/2024
3	Tech Review	Chad Martin	9/10/2024
4	Final Edits	Chad Martin	10/10/2024
5			
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8			



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

The conclusions in the Report titled **Wetland Delineation Report, Clover Creek Solar Project—Breckinridge County, Kentucky** are Stantec’s professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not consider any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on, unless given written notice, for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient’s own risk.

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1 Executive Summary

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1 Executive Summary

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Acronyms / Abbreviations

FAC	Facultative Plant
FACW	Facultative Wetland Plant
FEMA	Federal Emergency Management Agency
GIS	Geographic Information System
GPS	Global Positioning System
HUC	Hydrologic Unit Code
NOI	Notice of Intent
NLCD	National Land Cover Dataset
NRCS	National Resource Conservation Service
NWI	National Wetland Inventory
NWP	Nationwide Permit
OBL	Obligate Wetland Plant
OHWM	Ordinary High-Water Mark
Project Area	Approximately 3,600 acres within the proposed Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park in Breckinridge County, Kentucky
Project	Proposed Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park
PEM	Palustrine Emergent Wetland
PSS	Palustrine Shrub Scrub Wetland
PFO	Palustrine Forested Wetland
PUB	Palustrine Unconsolidated Bottomland
SWPPP	Strom Water Prevention Protective Plan
TNW	Traditionally Navigable Water
UPL	Upland Plant



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1 Executive Summary

U.S.	United States
USACE	US Army Corps of Engineers
USDA	US Department of Agriculture
USDA-NRCS	US Department of Agriculture, Natural Resources Conservation Service
USEPA	US Environmental Protection Agency
USFWS	US Fish and Wildlife Service
USGS	US Geological Survey
WOTUS	Waters of the US



1 Executive Summary

Stantec was contracted by **EDP Renewables** to conduct a wetland delineation for the proposed Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park (Project) that would be constructed on approximately 3,600 acres in Breckinridge County, Kentucky (Project Area). The tasks performed as part of the wetland delineation included a review of previous wetland delineations, topographic maps, true color and infrared aerial imagery, wetland inventory maps, flood maps, and soil survey data. A site assessment was previously conducted in July-August 2022 by Copperhead Environmental Consulting, this report is an addendum to the original report modified to include data collected in July 2024 by Stantec staff for additional parcels. The results and recommendations of the review for the Project Area are summarized below.

Under Section 404 of the Clean Water Act, the Project could be completed under Nationwide Permit (NWP) 51, Land-Based Renewable Energy Generation Facilities; NWP 14, Linear Transportation Projects; and/or NWP C/57, Electric Utility Line and Telecommunications Activities. Additionally, EDP Renewables would need to develop a Stormwater Pollution Prevention Plan (SWPPP) for the Project and provide Notice of Intent (NOI) prior to construction. As stated in the NWPs, the discharge of dredged or fill material into wetlands and non-tidal waters of the United States (WOTUS) must not cause the loss of greater than 0.5 acre of wetlands and non-tidal WOTUS. If activities from the construction of the Project and associated infrastructure, such as roads, parking lots, stormwater management facilities, and utility lines, permanently affect less than 0.5 acre, then EDP Renewables may proceed with the Project using an NWP. Permanent impacts that exceed the 0.5-acre threshold for NWPs require an Individual Permit.

In 2022 Copperhead scientists identified 117 ephemeral streams, 49 intermittent streams, 6 perennial streams, and 44 wetlands, including 19 ponds within the Project Area. Results from the previous field investigation concluded 172 streams and 28 wetlands possess a hydrological connection to the Ohio River, a traditionally navigable water (TNW). The survey conducted in July 16-18, 2024 by Stantec scientists identified additional wetlands and waterbodies. In total there are 210 stream features and 68 wetland features identified within the Project. Based upon the new rules regarding jurisdiction 64 of the streams and 14 of the identified wetlands appear to have a hydrologic connection to on and off-site streams that drain to the Ohio River. It is Stantec's opinion that these drainages/streams and wetlands have adequate connectivity to a TNW and would most likely be classified as jurisdictional under USACE guidance. Coordination with the USACE Louisville District Office to obtain an approved jurisdictional determination for the streams and wetlands identified onsite is recommended if Project infrastructure will impact these features. There are no regulations or permits that regulate isolated wetlands or non-jurisdictional streams for the state of Kentucky. According to the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL), approximately 44.82 acres of the Project area occur within the 100-Year Floodplain. Additional permitting from the Breckinridge County Floodplain Administrator may be required if construction will take place in these areas.



2 Introduction

2 Introduction

Stantec, was contracted by EDP Renewables to complete a wetland delineation for the proposed Clover Creek Solar Project (Project) that would be constructed on approximately 3,600 acres in Breckinridge County, Kentucky (Project Area; Figure 2-1). This report presents a delineation of all resources in the Project Area that potentially fall under the jurisdiction of the United States Army Corps of Engineers (USACE), Louisville Regulatory District.

Stantec performed a wetland delineation within the Survey Area, in accordance with the USACE 1987 Wetlands Delineation Manual (1987 Manual, USACE 1987), the 2010 Regional Supplement to the USACE Wetlands Delineation Manual: Eastern Mountains and Piedmont Region (2010 Regional Supplement, USACE 2010), and the Regulatory Guidance Letter 05-05 – Ordinary High-Water Mark (OHWM) Identification (RGL 05-05, USACE 2005).

Originally wetland delineations were conducted within the Project Area from July 6th - August 30th, 2022 by Copperhead Environmental. Additional parcels were added to the Project; therefore, these additional parcels were delineated from July 16th – 18th, 2024. On January 18, 2023, the U.S. Environmental Protection Agency (USEPA) and the USACE published the final version of the new Waters of the U.S. Rule. The effective date of this new rule is March 20, 2023. However, on March 19, 2023, Judge Jeffrey Vincent Brown of the Federal Southern District of Texas (State of Texas v. U.S. EPA, No. 3:23-cv-17) granted the States of Texas and Idaho a Preliminary Injunction preventing the nationwide application of the 2023 Waters of the U.S. Rule. Additionally, on April 12, 2023, a federal district court judge in North Dakota issued a temporary injunction blocking implementation of the 2023 Waters of the U.S. Rule. The injunction was issued in a challenge brought by 24 states, and will take effect in those states: Alabama, Alaska, Arkansas, Florida, Georgia, Indiana, Iowa, Kansas, Louisiana, Mississippi, Missouri, Montana, Nebraska, New Hampshire, North Dakota, Ohio, Oklahoma, South Carolina, South Dakota, Tennessee, Utah, Virginia, West Virginia, and Wyoming. In light of the injunction, the agencies within these states are interpreting WOTUS on pre-2015 regulatory regime. Therefore, as Kentucky is not one of the 24 states, the potential jurisdictional status of any features delineated within the Project were determined based on Stantec’s understanding of the joint memorandum “Clean Water Act Jurisdiction following the U.S. Supreme Court’s Decision in *Rapanos v. United States* and *Carabell v. United States*,” which is referred to as the “2008 Rapanos Guidance,” signed December 2, 2008.

On May 25, 2023, the Supreme Court issued its decision in *Sackett v. EPA*. Justice Samuel A. Alito, writing for the majority justices, implemented the “continuous surface connection” test. For a water to be protected under the Clean Water Act, the Court has declared that the water must have a continuous surface connection with a “water of the United States”—an ocean, river, stream, or lake—such that it is difficult to determine where the “water” ends, and the “wetland” begins. The decision further defines “waters” as only those relatively permanent, standing or continuously flowing bodies of water. The EPA has yet to issue guidance to the USACE on how to interpret, implement, and enforce the *Sackett v. EPA* decision. As a result, all jurisdictional WOTUS determinations associated with this report follow the 2008 Rapanos Guidance, though Stantec anticipates changes to the extent of WOTUS jurisdictional upon issuance of final agency guidance as a result of *Sackett v. EPA*.

It should be noted that Stantec has no authority over the timing, implementation, or enforcement of regulatory rules or any future injunctions or court cases that invalidate the regulatory rules. The project proponent acknowledges that regulatory authority over WOTUS lies with the appropriate federal agency.



2 Introduction

If new regulations are released by any agency with jurisdiction over the proposed project, it may be necessary to amend this report and the opinions contained within to account for updated regulations. Stantec reserves the right to amend any previous opinions and determination pending any regulatory change affecting this report. The state of Kentucky currently does not have a wetlands permitting program.

Stantec evaluated features in the Project Area for potential federal jurisdiction. Copperhead's 2022 interpretation was made based on available documentation from the US Environmental Protection Agency (USEPA), including guidance titled *Current Implementation of Waters of the United States*, which refers to the original 1986/1988 promulgation and subsequent Supreme Court cases that further defined the term, with the most current definition below determined by the 2008 ruling following the *Rapanos v. United States* case (USEPA 2021). The 2024 survey was evaluated under the same rule; however, this rule was amended on August 29th, 2023; due to ongoing litigation, Kentucky is one of the 27 states that continue to interpret WOTUS consistent with the pre-2015 regulatory regime and the Sackett decision. Interpretation of waters and wetlands for the 2024 wetland survey were conducted using the below parameters.

USACE and USEPA assert jurisdiction over the following waters:

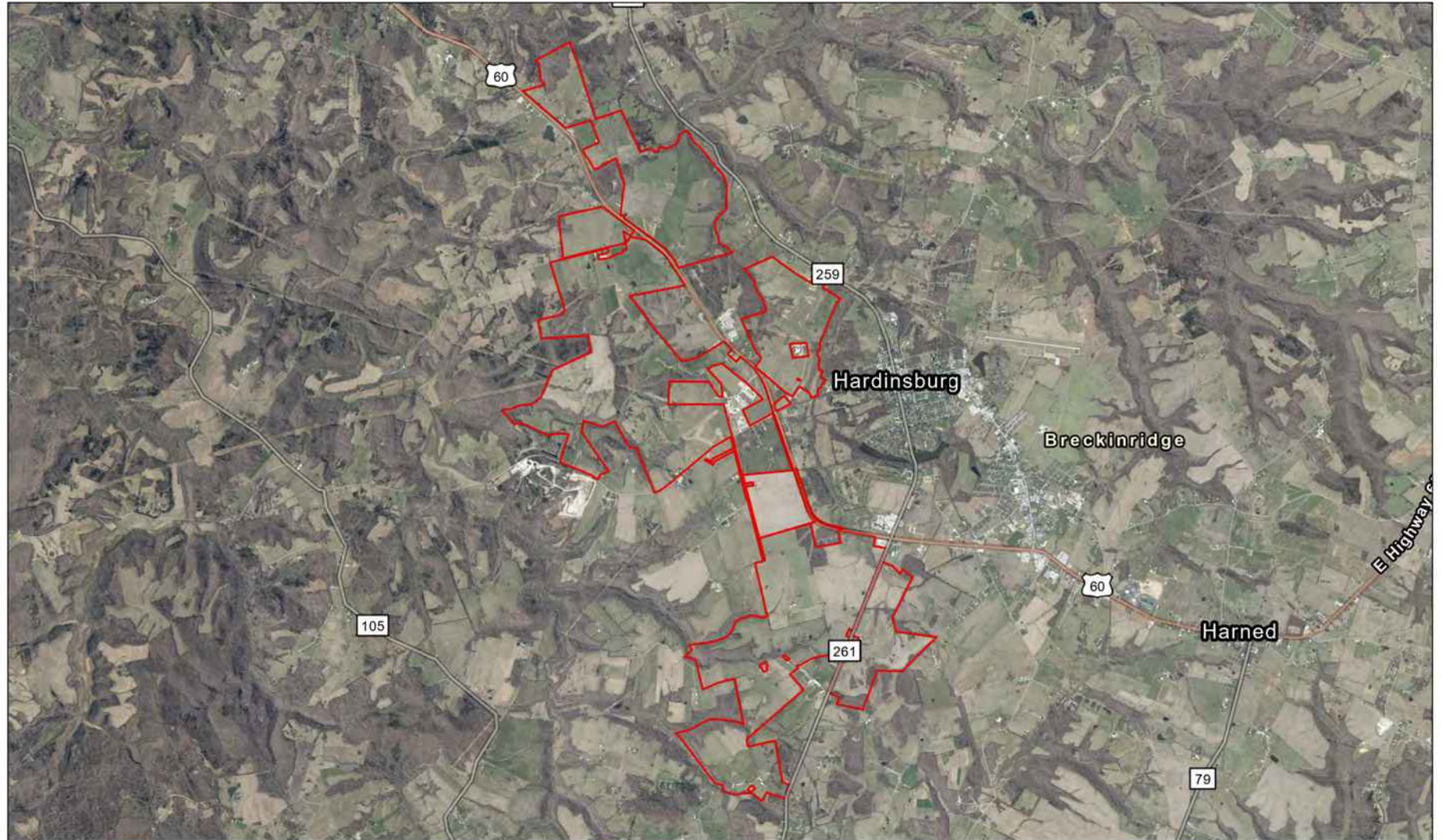
- Traditionally navigable waters (TNWs),
- Wetlands adjacent to TNWs that exhibit a surface connection,
- Non-navigable tributaries of TNWs that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months), and
- Wetlands that directly abut such tributaries and have a surface connection.

USACE and USEPA generally will not assert jurisdiction over the following features:

- Swales or erosional features (e.g., gullies, small washes characterized by low-volume, infrequent, or short-duration flow), and
- Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.
- Ephemeral streams, and
- Isolated wetlands

The following sections of this Report describe the proposed Project location; present the assessment methodology, results of the desktop review and field investigations, and conclusions and recommendations; and provide the supporting references.





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Project Area



0 1 Miles
 (At original document size of 8.5x11)
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Notes

1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
2. Data Sources:
3. Background: KyFromAbove Orthoimagery (2021)

Project Location
 Breckinridge County, Kentucky

Prepared by KR on 2024-07-29

Client/Project	235300918
Client	EDP Renewables
Project	Clover Creek Solar
Report	Wetland Delineation Report

Figure No.
2-1

Title
Project Area Overview



3 Proposed Project Location

3 Proposed Project Location

The Project is located less than a mile from the town center of Hardinsburg, Kentucky in Breckinridge County. According to the U.S. Environmental Protection Agency (USEPA) Level III and IV Ecoregions of Kentucky map, the Project is within the Outer Bluegrass (71d) and Hills of the Bluegrass (71k) ecoregions.

3.1 Ecoregion Description

The Outer Bluegrass ecoregion consist of sinkholes, springs, entrenched rivers, and intermittent and perennial streams. At the time of settlement, open savanna woodlands were found on most uplands. On less fertile, more acidic soils derived from Silurian dolomite, white oak (*Quercus alba*) stands occurred and had barren openings. Cane grew along streams and was especially common in the east. Today, pastureland and cropland are widespread and dissected areas are wooded (Kentucky 2013, Omernik 1987, 2004).

The Hills of the Bluegrass ecoregion consists of forested hills on steep terrain underlain by Upper Ordovician calcareous shale, siltstone, and limestone. Upland soils are fairly high in phosphorus, potassium, and lime but are not as naturally fertile as the Outer Bluegrass ecoregion. It supports young, mixed forests rich in white oak, hickory (*Carya* spp.), and cedar (*Cedrus* spp.). It has higher drainage density and is prone to erosion. As a result, less than ten percent of the ecoregion is suited to row crop agriculture and the rest is wooded, pastureland, or hayland (Kentucky 2013, Omernik 1987, 2004).

The Project is located within the Lexington Limestone formation. This formation is largely composed of limestone; however, shale is also usually present in varying amounts, and is dominant in some sub-units of the formation.

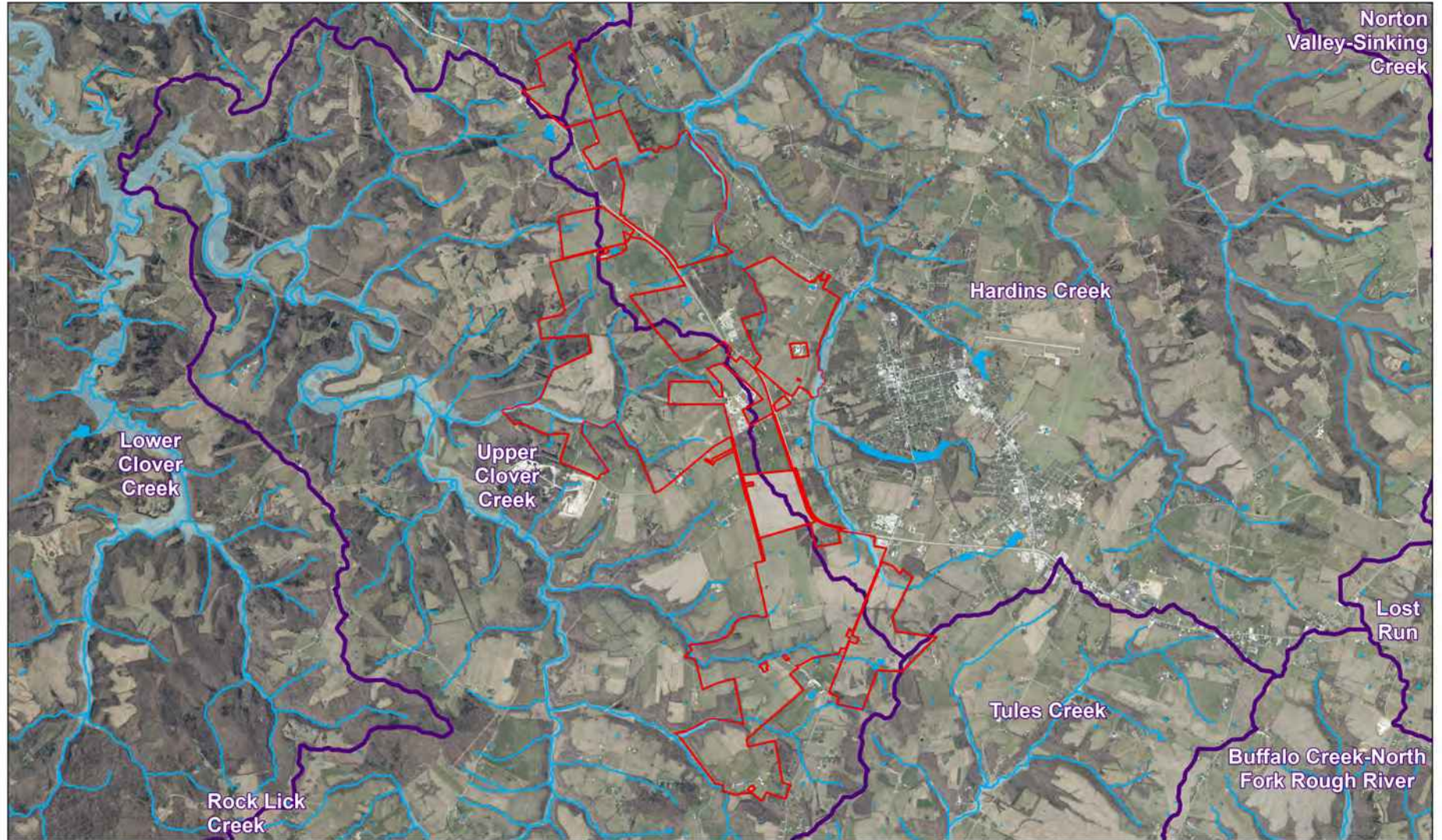
3.2 Hydrology

The Project is located within the following four watersheds, none of which are special-designated or protected watersheds: Lower Clover Creek ([HUC 12] 051402010205), Upper Clover Creek ([HUC 12] 051402010201), Hardins Creek ([HUC 12] 051401041306), and Tules Creek ([HUC 12] 051100040204).

The USACE, Louisville Regulatory District, office exercises regulatory jurisdiction over the Project Area. Tributaries to navigable waters may not be navigable themselves but have a significant impact on water quality in downstream waters and therefore, are also under the jurisdiction of USACE.

According to the Federal Emergency Management Agency's (FEMA's) Flood Insurance Rate Map panels 21027C_17, 21027C_18, 21027C_23, and 21027C_24 (All effective 8/4/2008) approximately 44.82 acres are located within the 100-year floodplain concentrated along the waterways identified above. Overall, hydrology, represented by the National Hydrography Dataset data and Watershed Boundary Dataset data (US Geological Survey [USGS] 2022a), streams, and floodplains are depicted in Figure 3-1.





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- Project Area
- Watershed Boundaries
- 100-Year Floodplain
- NHD Waterbodies
- NHD Streams



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 1:75,253

Notes

1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
2. Data Sources: FEMA NFHL, NHD
3. Background: KyFromAbove Orthoimagery (2021)

Project Location
 Breckinridge County, Kentucky

Prepared by KR on 2024-07-30

Client/Project	235300918
Client	EDP Renewables
Project	Clover Creek Solar
Report	Wetland Delineation Report

Figure No.

3-1

Title

Project Area Hydrology



3 Proposed Project Location

3.3 Soil Series

Soils within the Project Area range from somewhat poorly drained, moderately well drained to well drained and have a range of low to moderately high permeability. According to the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) website, the Project is located within 25 soil map units, which are listed below (Table 3-1). Four soil types within the Project boundaries meet the criteria for hydric soils as described by the National Technical Committee for Hydric Soils (Figure 3-2). Out of the 25 soil map units, 15 of the soils are considered prime farmland, and 11 soils are not prime farmland.

Caution must be used when comparing the list of hydric components to soil survey maps. Many of the soil lists have ranges in water table depths that allow the soil component to range from hydric to non-hydric depending on the location of the soil within the landscape as described in the map unit. Lists of hydric soils along with soil survey maps are useful offsite ancillary tools to assist in wetland determinations, but they are not a substitute for observations made during on-site investigations.



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

3 Proposed Project Location

Table 3-1 Characteristics of Soil Map Units within the Project Area

Soil Symbol	Soil Name	Drainage Class	Permeability	Surface Runoff	Meets Hydric Criteria	Meets Prime Farmland	Percentage of Project Area
Soil Survey: Breckinridge County, Kentucky (IN047)							
CaC2	Caneyville silt loam, 6 to 12 percent slopes, eroded	Well drained	Moderately high	Medium	No	Farmland of statewide importance	0.3%
CaD2	Caneyville silt loam, 12 to 20 percent slopes, eroded	Well drained	Moderately high	High	No	Not prime farmland	1.2%
CeD3	Caneyville silty clay, 12 to 20 percent slopes, severely eroded	Well drained	Moderately high	High	No	Not prime farmland	<0.01%
CkD	Caneyville-Rock outcrop complex, 12 to 30 percent slopes	Well drained	Moderately high	High	No	Not prime farmland	0.6%
Co	Clifty gravelly silt loam, 0 to 2 percent slopes, occasionally flooded	Well drained	High	Very low	No	All areas are prime farmland	1.2%
CrB2	Crider silt loam, 2 to 6 percent slopes, eroded	Well drained	Moderately high to high	Medium	No	All areas are prime farmland	<0.01%
CrC2	Crider silt loam, 6 to 12 percent slopes, eroded	Well drained	Moderately high to high	Medium	No	Farmland to statewide importance	0.4%
Cu	Cuba silt loam, occasionally flooded	Well drained	Moderately high to high	Low	No	All areas are prime farmland	0.6%
FcD2	Fredonia-Crider complex, karst, rocky, 12 to 20 percent slopes, eroded	Well drained	Moderately low to moderately high	High	No	Not prime farmland	0.3%



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

3 Proposed Project Location

Soil Symbol	Soil Name	Drainage Class	Permeability	Surface Runoff	Meets Hydric Criteria	Meets Prime Farmland	Percentage of Project Area
GwF	Gilpin-Dekalb-Rock outcrop complex, 30 to 60 percent slopes	Well drained	Moderately high to high	Very high	No	Not prime farmland	3.7%
Na	Newark silt loam, 0 to 2 percent slopes, occasionally flooded	Somewhat poorly drained	Moderately high to high	Negligible	Yes	Prime farmland if drained	0.1%
RnC2	Rosine silt loam, 6 to 12 percent slopes, eroded	Well drained	Very low to moderately	Medium	No	Farmland of statewide importance	3.5%
RoC3	Rosine silty clay loam, 6 to 12 percent slopes, severely eroded	Well drained	Moderately high	Medium	No	Not prime farmland	1.0%
RSD2	Rosine-Gilpin-Lenberg complex, 12 to 20 percent slopes, eroded	Well drained	Moderately high	High	No	Not prime farmland	8.4%
RSD3	Rosine-Gilpin-Lenberg complex, 12 to 20 percent slopes, severely eroded	Well drained	Moderately high	High	No	Not prime farmland	5.0%
RsE	Rosine-Gilpin-Lenberg complex, very rocky, 20 to 30 percent slopes	Well drained	Moderately high	High	No	Not prime farmland	10.0%
SaA	Sadler silt loam, 0 to 2 percent slopes	Moderately well drained	Very low to moderately low	Low	No	All areas are prime farmland	14.5%
SaB2	Sadler silt loam, 2 to 6 percent slopes, eroded	Moderately well drained	Very low to moderately low	Medium	No	All areas are prime farmland	24.0%
Sf	Steff silt loam, 0 to 2 percent slopes, occasionally flooded	Moderately well drained	Moderately high to high	Negligible	Yes	All areas are prime farmland	0.3%



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

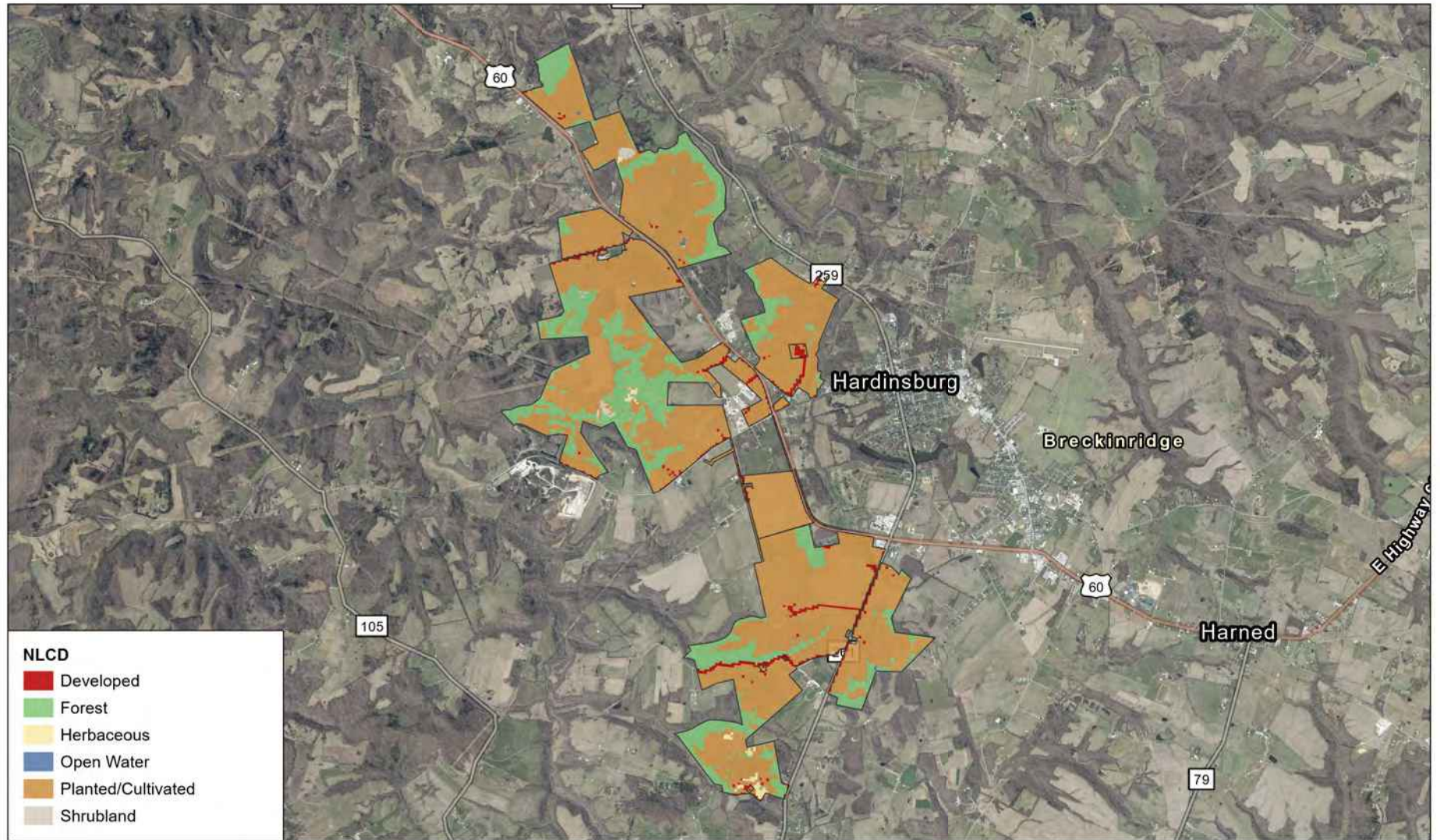
3 Proposed Project Location

Soil Symbol	Soil Name	Drainage Class	Permeability	Surface Runoff	Meets Hydric Criteria	Meets Prime Farmland	Percentage of Project Area
St	Stendal silt loam, 0 to 2 percent slopes, occasionally flooded	Somewhat poorly drained	Moderately high to high	Negligible	Yes	Prime farmland if drained	2.0%
uRobA	Robbs silt loam, 0 to 2 percent slopes	Somewhat poorly drained	Moderately low to moderately high	Low	Yes	Prime farmland if drained	5.6%
W	Water	N/A	N/A	N/A	N/A	Not prime farmland	0.4%
ZaB2	Zanesville silt loam, 2 to 6 percent slopes, eroded	Moderately well drained	Very low to moderately low	Low	No	All areas are prime farmland	2.5%
ZaC2	Zanesville silt loam, 6 to 12 percent slopes, eroded	Moderately well drained	Very low to moderately low	Medium	No	Farmland of statewide importance	12.7%
ZnC3	Zanesville silt loam, 6 to 12 percent slopes, severely eroded	Moderately well drained	Very low to moderately low	Medium	No	Not prime farmland	1.5%

Source: USDA-NRCS 2024



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- NLCD**
- Developed
 - Forest
 - Herbaceous
 - Open Water
 - Planted/Cultivated
 - Shrubland



Project Area



0 1 Miles
 (At original document size of 8.5x11)
 1:75,184

Notes

1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
2. Data Sources: NLCD (2021)
3. Background: KyFromAbove Orthoimagery (2021)

Project Location: Breckinridge County, Kentucky
 Prepared by KR on 2024-07-30

Client/Project	235300918
Client	EDP Renewables
Project	Clover Creek Solar
Report	Wetland Delineation Report

Figure No.

3-2

Title

National Land Cover Dataset



3 Proposed Project Location

3.4 Land Use

The National Land Cover Dataset (NLCD) maps most of the Project Area as planted/cultivated, which constitutes 74.3 percent of the Surveyed Area (Table 3-2, Figure 3-3). Five additional land cover types are mapped within the Surveyed Area and comprise the remaining 25.7 percent.

Table 3-2 Land Use within the Project Area

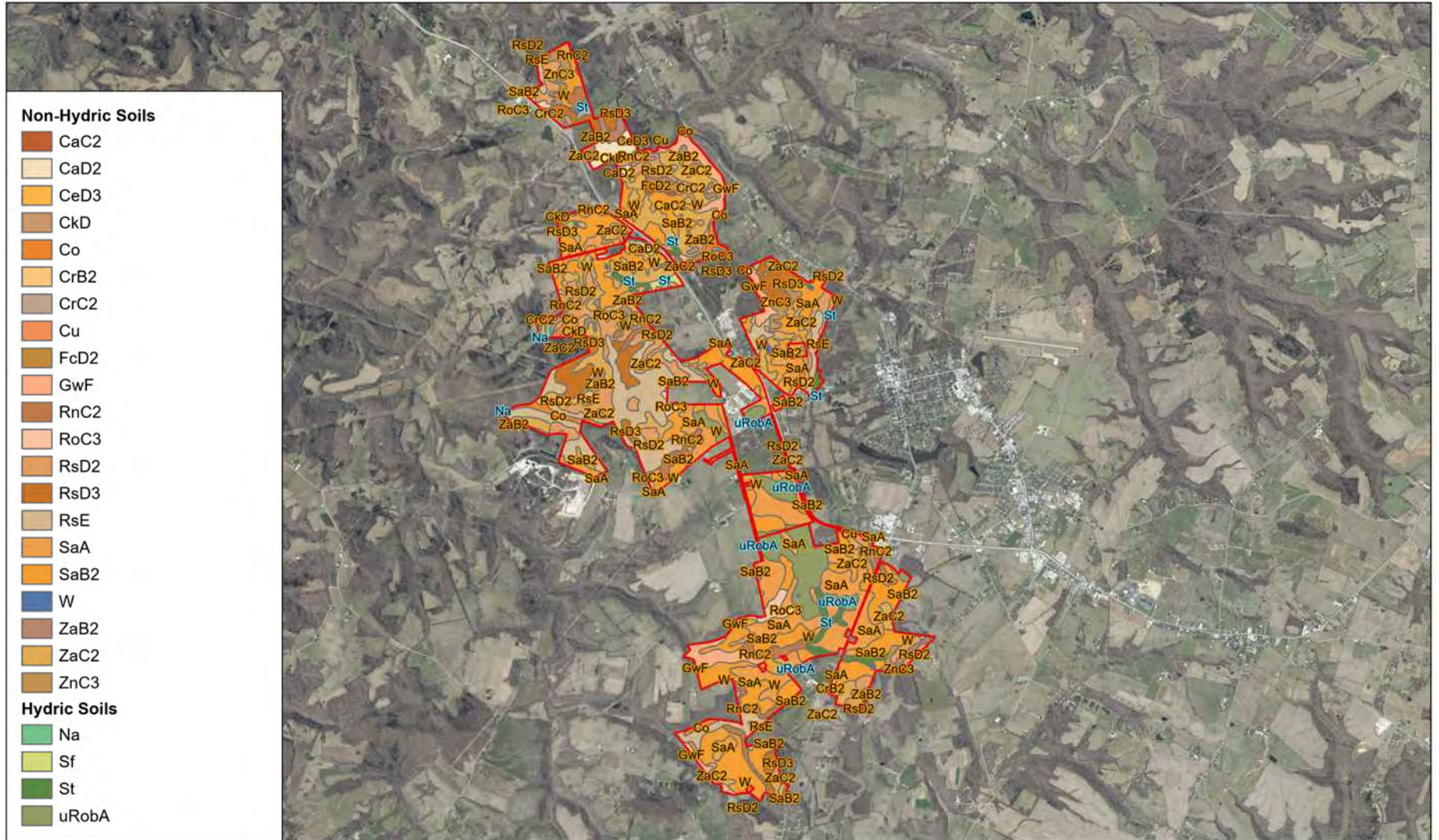
NLCD Cover Type	Acres within Project Area	Percentage of Project Area
Planted/Cultivated	2,677.0	74.3%
Forest	796.1	22.1%
Developed	99.7	2.7%
Herbaceous	16.8	0.5%
Shrubland	12.0	0.3%
Open Water	2.9	0.1%
Grand Total	3,604.6	100%

Source: US Geological Survey (USGS) 2021

Notes: NLCD - National Land Cover Dataset

Percentages and acreages may be slightly off due to rounding.





Non-Hydric Soils

- CaC2
- CaD2
- CeD3
- CkD
- Co
- CrB2
- CrC2
- Cu
- FcD2
- GwF
- RnC2
- RoC3
- RsD2
- RsD3
- RsE
- SaA
- SaB2
- W
- ZaB2
- ZaC2
- ZnC3

Hydric Soils

- Na
- Sf
- St
- uRobA



Project Area



0 1 Miles
 (At original document size of 8.5x11)
 :75,253

Notes

1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
2. Data Sources: NRCS WSS
3. Background: KyFromAbove Orthoimagery (2021)

Project Location
 Breckinridge County, Kentucky

Prepared by KR on 2024-07-29

Client/Project 235300918
 Client EDP Renewables
 Project Clover Creek Solar
 Report Wetland Delineation Report

Figure No.

3-3

Title

Project Area Soils



4 Assessment Methodology

4.1 Desktop Site Investigation

Stantec conducted a desktop investigation of the Project Area using federal and local geographic information system (GIS) data to identify potential wetlands, waterbodies, floodplains, and habitats that could affect the Project development process. Potential WOTUS were identified using the U.S. Fish and Wildlife Service's (USFWS's) National Wetlands Inventory (USFWS 2024a), USGS's National Hydrography Dataset GIS data layers and topographic maps (USGS 2024b), and FEMA's Flood Insurance Rate Map (FEMA 2024).

4.2 Field Site Investigation

Copperhead scientists performed field surveys within the original Project Area from July-August 2022, and Stantec scientists conducted field surveys on additional parcels (approximately 1,500 acres) from July 16-18, 2024, for the presence of WOTUS. Both Stantec and Copperhead scientists performed all wetland delineation surveys in accordance with the USACE's *Wetlands Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region* (USACE 2010).

4.3 Wetlands and Waterbodies

Wetlands are collectively defined by the USACE and USEPA as those areas that are inundated or saturated by surface water or groundwater at a frequency or duration sufficient to support, under normal circumstances, a prevalence of vegetation typically adapted for life in saturated soil conditions (USACE 1987). An area is a wetland if it meets the wetland hydrology, hydrophytic vegetation, and hydric soil criteria established in the USACE manual.

Wetland scientists surveyed the Project Area for the presence/absence of wetlands and waterbodies (Appendix B). All pertinent field data were collected using the USACE's Eastern Mountains and Piedmont Region wetland determination datasheets (Appendix C).

4.3.1 Hydrophytic Vegetation

Hydrophytic vegetation is defined as "the sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present" (USACE 1987). Stantec identified dominant vegetation and categorized it in accordance with the regional indicator status in USACE's national list of plant species that occur in wetlands. The indicator status of a plant species is expressed in terms of the estimated probability of that species occurring in wetland conditions within a given region (USACE 2020). Table 4-1 lists the plant indicator status categories. A vegetative community would be determined to be hydrophytic if more than 50 percent of the dominant species present were facultative (FAC), facultative wetland (FACW), or obligate wetland (OBL).



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Table 4-1 Plant Indicator Status Categories

Indicator Category	Indicator	Frequency of Occurrence in Wetlands (percent)
Obligate Wetland Plants	OBL	Plants that occur almost always (estimated probability >99%) in wetlands under natural conditions but that may also occur rarely (estimated probability <1%) in non-wetlands. Examples: <i>Carya aquatica</i> and <i>Persicaria punctata</i> .
Facultative Wetland Plants	FACW	Plants that usually occur (estimated probability 67–99%) in wetlands but also occur in non-wetlands. Examples: <i>Spartina patens</i> and <i>Panicum dichotomiflorum</i> .
Facultative Plants	FAC	Plants with a similar likelihood (estimated probability of 33–67%) of occurring in both wetlands and non-wetlands. Examples: <i>Stenotaphrum secundatum</i> and <i>Rumex crispus</i> .
Facultative Upland Plants	FACU	Plants that occur sometimes (estimated probability 1–33%) in wetlands but that occur more often (estimated probability 67–99%) in non-wetlands. Examples: <i>Cirsium vulgare</i> and <i>Rubus trivialis</i> .
Obligate Upland Plants	UPL	Plants that occur rarely (estimated probability <1%) in wetlands but almost always (>99% estimated probability) occur in non-wetlands. Example: <i>Geranium carolinianum</i> .

4.3.2 Wetland Hydrology

Wetland hydrology includes all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time during the growing season. Areas with evident characteristics of wetland hydrology are those where the presence of water has an overriding influence on characteristics of vegetation and soils from anaerobic and reducing conditions, respectively (USACE 1987).

4.3.3 Hydric Soils

Hydric soils are defined as soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper stratum. In general, hydric soils are flooded, ponded, or saturated for a week or more during the growing season when soil temperatures are above 32 degrees Fahrenheit. The anaerobic conditions created by repeated or prolonged saturation or flooding result in permanent changes in soil color and chemistry and are used to differentiate hydric from non-hydric soils (USACE 1987).

At each recorded data point, a pit up to 20 inches deep was excavated for evaluation. Soils were surveyed to identify horizon profile, matrix, value, chroma, texture, and concretions. Hydric soils were determined to be present if one primary hydric soil indicator was present. Background soils information for the Project Area was obtained from the USDA-NRCS Web Soil Survey (USDA-NRCS 2024).

4.4 Mapping

All delineated features were recorded using a sub-meter Global Positioning System (GPS) device. The GPS was programmed to record points with a minimum of four satellites and a position dilution of precision value that was no greater than 6.0. Stantec scientists delineated water features by collecting GPS points along the perimeter of the wetland or ordinary high-water mark with suitable frequency to represent the feature within the Project Area. Maps of delineated features are provided in Appendix A, and supporting datasheets are provided in Appendix B.



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4.5 Photographs

Photographs are the visual documentation of site conditions as they existed during the field survey. Representative photographs were taken at all delineated features. For all features, a minimum of one photograph was taken. The photographic log is provided in Appendix C.



5 Results of Findings

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5.1 Precipitation Data

A site delineation was conducted July 16-18, 2024. According to the nearest reporting regional station with historical precipitation data, Owensboro Daviess County Airport Station, (34 miles west of the Project near Owensboro, KY) reported 0.75 inches of precipitation for the week prior to the 2024 survey. During the week of the 2024 survey, 0.76 inches of rain was reported. The USACE Antecedent Precipitation Tool indicated that during the time of survey in July 2024, normal conditions were present during the dry season. The results of the USACE Antecedent Precipitation tool can be found in Appendix D. The month within which the initial survey occurred and preceding month’s rainfall data for the Project Area are presented in Table 5-1.

Table 5-1 Precipitation Data for Owensboro Daviess County Airport Station

Month	Recorded Monthly Rainfall (inches)
February	1.08
March	0.94
April	4.18
May	7.40
June	1.84
July	3.10

Source: Weather Underground 2024

5.2 Wetlands

Wetland scientists investigated the entire Project for wetlands that exhibited the three USACE criteria (hydrophytic vegetation, wetland hydrology, and hydric soils). The wetland delineation identified 68 wetlands (**Table 5-2**) totaling 22.64 acres. Four types of wetlands were identified during the delineations, Palustrine Unconsolidated Bottom (PUB), Palustrine Emergent (PEM), Palustrine Shrub Scrub (PSS), and Palustrine Forested (PFO). Wetlands P001 through P019 and W001 through W025 were identified during the July-August 2022 delineation and P020 through P037 and W026 through W031 were identified during the July 2024 delineation. A map book depicting all delineated wetlands can be found in Appendix A.

Table 5-2 Delineated Wetlands

Map ID	Classification	Latitude	Longitude	Acres within Project Area	Potentially Jurisdictional?
P001	PUB	37.79023068	-86.5085801	0.14	No
P002	PUB	37.79125657	-86.49914598	1.20	Yes
P003	PUB	37.79457073	-86.5015041	0.12	No
P004	PUB	37.79400089	-86.50487384	0.26	No



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Map ID	Classification	Latitude	Longitude	Acres within Project Area	Potentially Jurisdictional?
P005	PUB	37.80446542	-86.49350576	0.24	No
P006	PUB	37.81185975	-86.51300552	0.21	No
P007	PUB	37.81216279	-86.51059334	0.35	No
P008	PUB	37.81094437	-86.50742811	1.17	No
P009	PUB	37.78935379	-86.50671777	0.32	Yes
P010	PUB	37.78961828	-86.50448106	0.15	No
P011	PUB	37.7931859	-86.50281053	0.50	Yes
P012	PUB	37.8004182	-86.49440396	0.01	No
P013	PUB	37.79920289	-86.50037879	0.30	No
P014	PUB	37.76913154	-86.49302516	0.66	No
P015	PUB	37.76981578	-86.49380789	0.28	No
P016	PUB	37.80042886	-86.48972827	0.22	No
P017	PUB	37.79622738	-86.49200699	1.73	No
P018	PUB	37.79546297	-86.4935354	0.11	No
P019	PUB	37.79319232	-86.50565491	0.80	No
P020	PUB	37.75082135	-86.48323868	0.12	No
P021	PUB	37.74927647	-86.47766669	0.29	Yes
P022	PUB	37.74586725	-86.48531938	0.20	No
P023	PUB	37.7453311	-86.47801072	0.37	No
P024	PUB	37.74728548	-86.48050781	0.15	No
P025	PUB	37.7508572	-86.47313376	0.28	No
P026	PUB	37.75410723	-86.46821923	0.32	Yes
P027	PUB	37.75590368	-86.46558909	0.24	No
P028	PUB	37.75554328	-86.47480158	0.45	No
P029	PUB	37.76036418	-86.47737851	0.21	No
P030	PUB	37.76047865	-86.479206	0.15	No
P031	PUB	37.76121157	-86.47387075	0.11	No
P032	PUB	37.74741254	-86.46378332	1.37	Yes
P033	PUB	37.75070301	-86.45878522	0.36	No
P034	PUB	37.73414338	-86.48215618	0.29	No
P035	PUB	37.73491228	-86.47944541	0.35	No
P036	PUB	37.73819109	-86.47987279	0.42	No
P037	PUB	37.76890067	-86.4832974	0.01	No
W001	PEM	37.78923556	-86.47030692	0.08	No
W002	PEM	37.78949737	-86.46970134	0.01	Yes
W003	PEM	37.78163547	-86.49684525	0.14	No



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Map ID	Classification	Latitude	Longitude	Acres within Project Area	Potentially Jurisdictional?
W004	PEM	37.79648292	-86.50274473	0.03	No
W005	PEM	37.79628639	-86.50518456	0.01	No
W006	PEM	37.79804736	-86.50728448	0.01	No
W007	PEM	37.77412415	-86.51091738	0.02	Yes
W008	PEM	37.81215516	-86.5105802	0.61	No
W009	PEM	37.8109445	-86.50738043	0.46	No
W010	PEM	37.81231275	-86.51119135	0.13	No
W011	PEM	37.80558738	-86.50529466	0.14	No
W012	PEM	37.79133808	-86.49999943	0.01	Yes
W013	PEM	37.79988364	-86.49235975	0.11	No
W014	PEM	37.77675118	-86.50551899	0.26	No
W015	PEM	37.77715271	-86.50569044	0.02	Yes
W016	PEM	37.78095184	-86.50563955	0.20	No
W017	PEM	37.77953361	-86.5083319	0.04	Yes
W018	PEM	37.77441488	-86.48664789	0.21	No
W019	PEM	37.77412054	-86.48489191	0.02	No
W020	PEM	37.7827831	-86.49842755	0.03	Yes
W021	PEM	37.78759037	-86.5002581	0.29	No
W022	PEM	37.77336812	-86.49834256	0.12	No
W023	PEM	37.77989569	-86.50912956	0.03	Yes
W024	PEM	37.77057871	-86.50829538	0.19	No
W025	PFO	37.78685997	-86.49715838	0.16	No
W026	PSS	37.74974131	-86.4808991	0.36	Yes
W027	PEM	37.76092564	-86.47315141	1.90	No
W028	PEM	37.76246421	-86.47407546	1.76	No
W029	PSS	37.74792374	-86.46439671	0.67	No
W030	PSS	37.75780563	-86.46404951	0.13	No
W031	PEM	37.76821626	-86.48107216	0.03	No
<i>Potentially Jurisdictional Subtotal</i>				4.19	
<i>Potentially Non-Jurisdictional</i>				18.45	
Total⁴				22.64	

5.3 Waterbodies

Stantec and Copperhead scientists identified **210** streams, including six perennial streams, 58 intermittent streams, 139 ephemeral streams, and seven ditches totaling 146297.4 feet (27.7 miles) within the Project Area (Table 5-4). A map book depicting all delineated streams can be found in Appendix A.



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Table 5-3 Delineated Streams

Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
DF001	Ditch	37.792749	-86.478180	316.4	0.06	No
DF002	Ditch	37.783856	-86.478068	1205.2	0.23	No
DF003	Ditch	37.768994	-86.483183	67.8	0.01	No
DF004	Ditch	37.765630	-86.473427	41.8	0.01	No
DF005	Ditch	37.770720	-86.476164	1012.0	0.19	No
DF006	Ditch	37.764043	-86.481449	92.8	0.02	No
DF007	Ditch	37.766000	-86.472919	3514.5	0.67	No
S001	Intermittent	37.789772	-86.478437	1496.8	0.28	Yes
S002	Ephemeral	37.789391	-86.476354	107.0	0.02	No
S003	Ephemeral	37.789474	-86.469659	82.8	0.02	No
S004	Ephemeral	37.786603	-86.472870	1102.1	0.21	No
S005	Ephemeral	37.788827	-86.475892	284.0	0.05	No
S006	Ephemeral	37.787841	-86.477786	170.7	0.03	No
S007	Ephemeral	37.787783	-86.477814	197.3	0.04	No
S008	Ephemeral	37.787828	-86.478167	91.7	0.02	No
S009	Intermittent	37.787940	-86.479268	808.1	0.15	Yes
S010A	Perennial	37.785257	-86.481199	749.1	0.14	Yes
S010B	Intermittent	37.790097	-86.481235	2559.1	0.48	Yes
S011	Intermittent	37.785645	-86.479508	823.2	0.16	Yes
S012	Ephemeral	37.784643	-86.481879	114.3	0.02	No
S013	Intermittent	37.785257	-86.479327	238.6	0.05	Yes
S014	Intermittent	37.773184	-86.499877	231.5	0.04	Yes
S015	Ephemeral	37.773608	-86.506070	36.6	0.01	No
S016	Ephemeral	37.772871	-86.493028	201.1	0.04	No
S017	Ephemeral	37.771832	-86.507603	70.3	0.01	No
S019	Intermittent	37.780195	-86.495857	703.7	0.13	Yes
S020	Ephemeral	37.779801	-86.499324	416.6	0.08	No
S021	Ephemeral	37.780905	-86.499201	169.2	0.03	No
S022	Ephemeral	37.781157	-86.500171	77.7	0.01	No
S023	Ephemeral	37.774171	-86.500361	149.9	0.03	No
S024	Ephemeral	37.773930	-86.500237	101.7	0.02	No



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Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
S025	Ephemeral	37.779567	-86.509426	272.1	0.05	No
S026	Ephemeral	37.815488	-86.510326	838.0	0.16	No
S027	Ephemeral	37.815173	-86.509322	75.1	0.01	No
S028A	Intermittent	37.773218	-86.497356	871.7	0.17	Yes
S028B	Ephemeral	37.774006	-86.496043	225.9	0.04	No
S029A	Perennial	37.773358	-86.499606	1491.2	0.28	Yes
S029B	Intermittent	37.771559	-86.495777	1742.2	0.33	Yes
S029C	Ephemeral	37.772594	-86.493005	306.7	0.06	No
S030	Ephemeral	37.773092	-86.491636	720.5	0.14	No
S031	Ephemeral	37.772353	-86.492035	419.4	0.08	No
S032A	Intermittent	37.785911	-86.502743	51.8	0.01	Yes
S032B	Ephemeral	37.786518	-86.503233	535.9	0.10	No
S033A	Intermittent	37.784073	-86.501392	538.3	0.10	Yes
S033B	Ephemeral	37.784545	-86.500641	54.6	0.01	No
S034	Ephemeral	37.784261	-86.497553	77.5	0.01	No
S035	Ephemeral	37.784707	-86.496481	61.3	0.01	No
S036	Ephemeral	37.784735	-86.496375	70.6	0.01	No
S037	Intermittent	37.783180	-86.498585	1917.9	0.36	Yes
S038	Ephemeral	37.782683	-86.500670	274.4	0.05	No
S039	Ephemeral	37.782975	-86.501412	93.0	0.02	No
S040	Ephemeral	37.783142	-86.501718	69.1	0.01	No
S041	Ephemeral	37.783053	-86.502087	262.6	0.05	No
S042	Ephemeral	37.782992	-86.502042	151.1	0.03	No
S043A	Intermittent	37.774107	-86.507600	1388.0	0.26	Yes
S043B	Ephemeral	37.772064	-86.508073	866.5	0.16	No
S044	Ephemeral	37.771899	-86.507236	303.7	0.06	No
S046	Ephemeral	37.776170	-86.512740	944.5	0.18	No
S047A	Intermittent	37.775701	-86.510580	381.9	0.07	Yes
S047B	Ephemeral	37.774688	-86.510904	484.8	0.09	No
S048	Ephemeral	37.776067	-86.510240	252.3	0.05	No
S049	Ephemeral	37.778510	-86.502764	269.3	0.05	No
S050A	Intermittent	37.776139	-86.504866	846.1	0.16	Yes
S050B	Ephemeral	37.778016	-86.503428	956.9	0.18	No
S051A	Intermittent	37.776391	-86.506427	591.2	0.11	Yes



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S051B	Ephemeral	37.777744	-86.505737	650.0	0.12	No
S052	Ephemeral	37.777001	-86.505927	171.9	0.03	No
S053	Ephemeral	37.771727	-86.505297	568.9	0.11	No
S054	Intermittent	37.771232	-86.504009	923.9	0.17	Yes
S055	Ephemeral	37.770769	-86.503619	81.7	0.02	No
S056	Ephemeral	37.772831	-86.505629	162.8	0.03	No
S057	Ephemeral	37.773220	-86.505920	128.2	0.02	No
S058	Intermittent	37.779433	-86.508222	2428.3	0.46	Yes
S059	Ephemeral	37.779315	-86.506764	17.2	0.00	No
S060	Ephemeral	37.816176	-86.511630	66.2	0.01	No
S061	Intermittent	37.816244	-86.510860	1574.9	0.30	Yes
S062	Ephemeral	37.816610	-86.509007	138.7	0.03	No
S063	Ephemeral	37.816542	-86.509195	105.4	0.02	No
S064	Perennial	37.814562	-86.511941	1517.3	0.29	Yes
S065	Ephemeral	37.812105	-86.505782	222.1	0.04	No
S066	Ephemeral	37.810429	-86.505514	427.5	0.08	No
S067	Ephemeral	37.810069	-86.505677	130.0	0.02	No
S068	Ephemeral	37.806184	-86.503359	894.7	0.17	No
S069A	Intermittent	37.813499	-86.511956	73.0	0.01	Yes
S069B	Ephemeral	37.813226	-86.511946	133.4	0.03	No
S070	Ephemeral	37.812670	-86.512395	481.8	0.09	No
S071	Intermittent	37.809759	-86.505007	458.2	0.09	Yes
S072A	Perennial	37.806443	-86.496540	3274.1	0.62	Yes
S072B	Intermittent	37.804796	-86.503936	665.8	0.13	Yes
S073	Ephemeral	37.805826	-86.502481	143.2	0.03	No
S074	Ephemeral	37.806027	-86.502858	89.0	0.02	No
S075	Ephemeral	37.790825	-86.504554	300.1	0.06	No
S076A	Intermittent	37.790471	-86.504713	108.2	0.02	Yes
S076B	Ephemeral	37.790368	-86.504234	211.6	0.04	No
S077	Ephemeral	37.789483	-86.506463	90.9	0.02	No
S078	Ephemeral	37.773995	-86.496273	85.7	0.02	No
S079	Ephemeral	37.773913	-86.496424	42.7	0.01	No
S080	Intermittent	37.774168	-86.496635	278.5	0.05	Yes
S081	Intermittent	37.773484	-86.497472	244.0	0.05	Yes



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S082	Intermittent	37.772958	-86.496695	669.4	0.13	Yes
S083	Ephemeral	37.772848	-86.497674	43.0	0.01	No
S084	Ephemeral	37.771386	-86.496489	436.1	0.08	No
S085	Intermittent	37.770773	-86.497198	273.1	0.05	Yes
S086	Intermittent	37.770168	-86.495095	958.0	0.18	Yes
S087	Ephemeral	37.770753	-86.495013	654.4	0.12	No
S088A	Intermittent	37.778105	-86.497183	1131.6	0.21	Yes
S088B	Ephemeral	37.776050	-86.494868	1369.1	0.26	No
S089	Ephemeral	37.775513	-86.494822	152.2	0.03	No
S090	Intermittent	37.783300	-86.501275	4686.9	0.89	Yes
S091	Ephemeral	37.787933	-86.501399	83.3	0.02	No
S092	Ephemeral	37.787055	-86.501602	91.8	0.02	No
S093	Ephemeral	37.786184	-86.501990	198.4	0.04	No
S094	Ephemeral	37.784674	-86.502340	65.5	0.01	No
S095	Ephemeral	37.783413	-86.502120	184.5	0.03	No
S096	Ephemeral	37.780315	-86.499776	92.8	0.02	No
S097 (Bear Run)	Perennial	37.777978	-86.500760	9619.0	1.82	Yes
S098	Ephemeral	37.781135	-86.493599	154.4	0.03	No
S099	Ephemeral	37.776035	-86.509268	68.7	0.01	No
S100	Intermittent	37.773657	-86.499818	192.0	0.04	Yes
S101	Ephemeral	37.776184	-86.509846	114.6	0.02	No
S102A	Intermittent	37.786331	-86.508346	3702.4	0.70	Yes
S102B	Ephemeral	37.791589	-86.505294	939.0	0.18	No
S103	Ephemeral	37.776216	-86.509372	60.9	0.01	No
S104	Ephemeral	37.791698	-86.507664	112.1	0.02	No
S105	Ephemeral	37.791749	-86.507503	115.7	0.02	No
S106	Intermittent	37.790464	-86.507365	1117.2	0.21	Yes
S107	Ephemeral	37.790879	-86.508027	221.0	0.04	No
S108	Ephemeral	37.790703	-86.507190	189.2	0.04	No
S109	Ephemeral	37.789989	-86.507331	77.5	0.01	No
S110	Ephemeral	37.789959	-86.507151	53.2	0.01	No
S111	Ephemeral	37.781370	-86.494257	213.2	0.04	No
S112	Ephemeral	37.809937	-86.504743	92.1	0.02	No



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

5 Results of Findings

Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
S113	Intermittent	37.805826	-86.497220	166.2	0.03	Yes
S114	Ephemeral	37.805766	-86.497105	83.8	0.02	No
S115A	Intermittent	37.804117	-86.499814	951.9	0.18	Yes
S115B	Ephemeral	37.803054	-86.499031	185.7	0.04	No
S116	Ephemeral	37.803282	-86.499602	115.1	0.02	No
S117	Ephemeral	37.804280	-86.499640	127.0	0.02	No
S118	Ephemeral	37.805004	-86.499064	298.6	0.06	No
S119	Ephemeral	37.790570	-86.499082	151.8	0.03	No
S120	Ephemeral	37.790577	-86.497036	422.0	0.08	No
S121	Ephemeral	37.790811	-86.495923	283.7	0.05	No
S122	Intermittent	37.791519	-86.492254	447.2	0.08	Yes
S123A	Intermittent	37.795012	-86.492282	227.8	0.04	Yes
S123B	Ephemeral	37.796675	-86.493646	1155.5	0.22	No
S124	Ephemeral	37.779314	-86.508596	80.3	0.02	No
S125	Ephemeral	37.783936	-86.497321	270.2	0.05	No
S126	Ephemeral	37.809807	-86.502591	694.6	0.13	No
S127	Intermittent	37.807284	-86.492873	31.1	0.01	Yes
S128	Intermittent	37.806353	-86.492944	750.8	0.14	Yes
S129	Ephemeral	37.806615	-86.494700	176.5	0.03	No
S130	Ephemeral	37.806419	-86.495527	118.0	0.02	No
S131	Ephemeral	37.806276	-86.495931	68.3	0.01	No
S132A	Intermittent	37.791392	-86.500019	111.6	0.02	Yes
S132B	Ephemeral	37.792153	-86.501564	1147.3	0.22	No
S133	Ephemeral	37.787896	-86.505818	223.5	0.04	No
S134	Ephemeral	37.787797	-86.505897	129.8	0.02	No
S135	Intermittent	37.788114	-86.506198	515.7	0.10	Yes
S136	Intermittent	37.791272	-86.495821	2340.2	0.44	Yes
S137	Ephemeral	37.779387	-86.508840	148.5	0.03	No
S138	Ephemeral	37.797723	-86.501455	800.3	0.15	No
S139A	Intermittent	37.797538	-86.509070	524.0	0.10	Yes
S139B	Ephemeral	37.797757	-86.508210	89.9	0.02	No
S140	Intermittent	37.797301	-86.508477	255.2	0.05	Yes
S141	Ephemeral	37.796738	-86.501199	363.9	0.07	No
S142	Ephemeral	37.804013	-86.488092	418.1	0.08	No



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

5 Results of Findings

Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
S143A	Intermittent	37.805288	-86.488694	235.8	0.04	Yes
S143B	Ephemeral	37.804226	-86.489606	819.1	0.16	No
S144	Intermittent	37.806432	-86.489682	92.9	0.02	Yes
S145	Perennial	37.802922	-86.487971	5134.4	0.97	Yes
S146	Intermittent	37.782854	-86.498739	175.9	0.03	Yes
S147	Ephemeral	37.802174	-86.486812	486.7	0.09	No
S148A	Intermittent	37.800378	-86.487516	1575.9	0.30	Yes
S148B	Ephemeral	37.799559	-86.490663	662.0	0.13	No
S149	Ephemeral	37.799403	-86.489707	87.2	0.02	No
S150A	Intermittent	37.794328	-86.491430	652.4	0.12	Yes
S150B	Ephemeral	37.794949	-86.493276	563.1	0.11	No
S151	Ephemeral	37.785902	-86.511024	860.1	0.16	No
S152	Ephemeral	37.786956	-86.510995	306.0	0.06	No
S153 (Bens Hole Branch)	Intermittent	37.748519	-86.478075	8878.7	1.68	Yes
S154	Intermittent	37.747247	-86.488714	318.0	0.06	Yes
S155	Ephemeral	37.749305	-86.481977	765.3	0.14	No
S156	Ephemeral	37.747546	-86.478845	797.4	0.15	No
S157	Ephemeral	37.749003	-86.478345	338.5	0.06	No
S158	Ephemeral	37.750572	-86.474100	405.4	0.08	No
S159	Intermittent	37.755063	-86.478009	2909.4	0.55	Yes
S160	Ephemeral	37.753403	-86.477472	834.6	0.16	No
S161	Ephemeral	37.752210	-86.479133	649.3	0.12	No
S162	Ephemeral	37.750639	-86.484228	656.6	0.12	No
S163	Intermittent	37.743629	-86.466099	524.2	0.10	Yes
S164	Intermittent	37.742910	-86.466458	660.7	0.13	Yes
S165	Ephemeral	37.753809	-86.461727	2433.2	0.46	No
S166	Ephemeral	37.750757	-86.460351	676.2	0.13	No
S167	Intermittent	37.759263	-86.463368	3455.5	0.65	Yes
S168	Ephemeral	37.757774	-86.464157	171.6	0.03	No
S169	Intermittent	37.762663	-86.467139	202.2	0.04	Yes
S170	Intermittent	37.740572	-86.486687	3214.8	0.61	Yes
S171	Ephemeral	37.739184	-86.489698	636.5	0.12	No



Wetland Delineation Report, Clover Creek Solar Project LLC d/b/a New Frontiers Solar Park —Breckinridge County, Kentucky

5 Results of Findings

Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
S172	Ephemeral	37.740923	-86.486381	274.5	0.05	No
S173	Ephemeral	37.736965	-86.481045	1024.5	0.19	No
S174	Ephemeral	37.737377	-86.480098	842.3	0.16	No
S175	Ephemeral	37.735603	-86.487861	267.8	0.05	No
S176	Ephemeral	37.772890	-86.477170	62.1	0.01	No
S177	Ephemeral	37.750794	-86.472218	1509.1	0.29	No
S178	Ephemeral	37.753056	-86.470193	2070.0	0.39	No
S179	Intermittent	37.740164	-86.482185	669.9	0.13	Yes
S180	Ephemeral	37.791883	-86.477780	2689.3	0.51	No
S181	Ephemeral	37.793048	-86.480587	1209.1	0.23	No
S183	Ephemeral	37.760479	-86.463355	491.7	0.09	No
S184	Ephemeral	37.783726	-86.473064	471.6	0.09	No
<i>Potentially Jurisdictional Subtotal</i>				<i>86,348.5</i>	<i>16.4</i>	
<i>Potentially Non-Jurisdictional</i>				<i>59,948.9</i>	<i>11.4</i>	
Total				146,297.4	27.7	

¹ Map identification represents unique designations given to each stream during field surveys.

² Stream classification determined from topographic maps and field observations.

³ Latitude and longitude presented in North American Datum of 1983 decimal degrees.

⁴ Column may not equal the sum of all rows due to rounding.



6 Conclusion and Recommendations

Stantec reviewed completed wetland delineations by Copperhead Environmental Consulting, topographic maps, historical and current aerial imagery, wetland inventory maps, flood maps, and soil survey data as part of a desktop investigation during its wetland delineation. Stantec also completed wetland and waterbody field surveys to document WOTUS within the newly added Project Area parcels.

In compliance with Section 404 of the Clean Water Act, this report contains a delineation of potential WOTUS that may fall under the jurisdiction of USACE. The desktop review and field delineation were performed by qualified wetland scientists, and all water features within the Project Area were mapped and characterized. Field staff identified 210 streams and 68 of wetlands within the Project Area. Of the waterbodies and wetland identified 64 of the streams and 14 of the wetlands are potentially jurisdictional and appear to have a hydrologic connection to on and off-site streams that drain to Clover Creek and Hardins Creek, which ultimately drain to the Ohio river. A total of 44.82 acres of the Project Area are within the 100-year floodplain.

Under Section 404 of the Clean Water Act, the Project could be completed under NWP 51, Land-Based Renewable Energy Generation Facilities; NWP 14, Linear Transportation Projects; and/or NWP C/57, Electric Utility Line and Telecommunications Activities. Additionally, EDP Renewables would need to develop a Stormwater Pollution Prevention Plan for the Project and provide Notice of Intent prior to construction. As stated in the NWPs, the discharge of dredged or fill material into wetlands and non-tidal WOTUS must not cause the loss of greater than 0.5 acre of wetlands and non-tidal WOTUS. If activities from the construction of the Project and associated infrastructure, such as roads, parking lots, stormwater management facilities, and utility lines, permanently affect less than 0.5 acre, then EDP Renewables may proceed with the Project using an NWP. Permanent impacts that exceed the 0.5-acre threshold for NWPs require an Individual Permit.



7 References

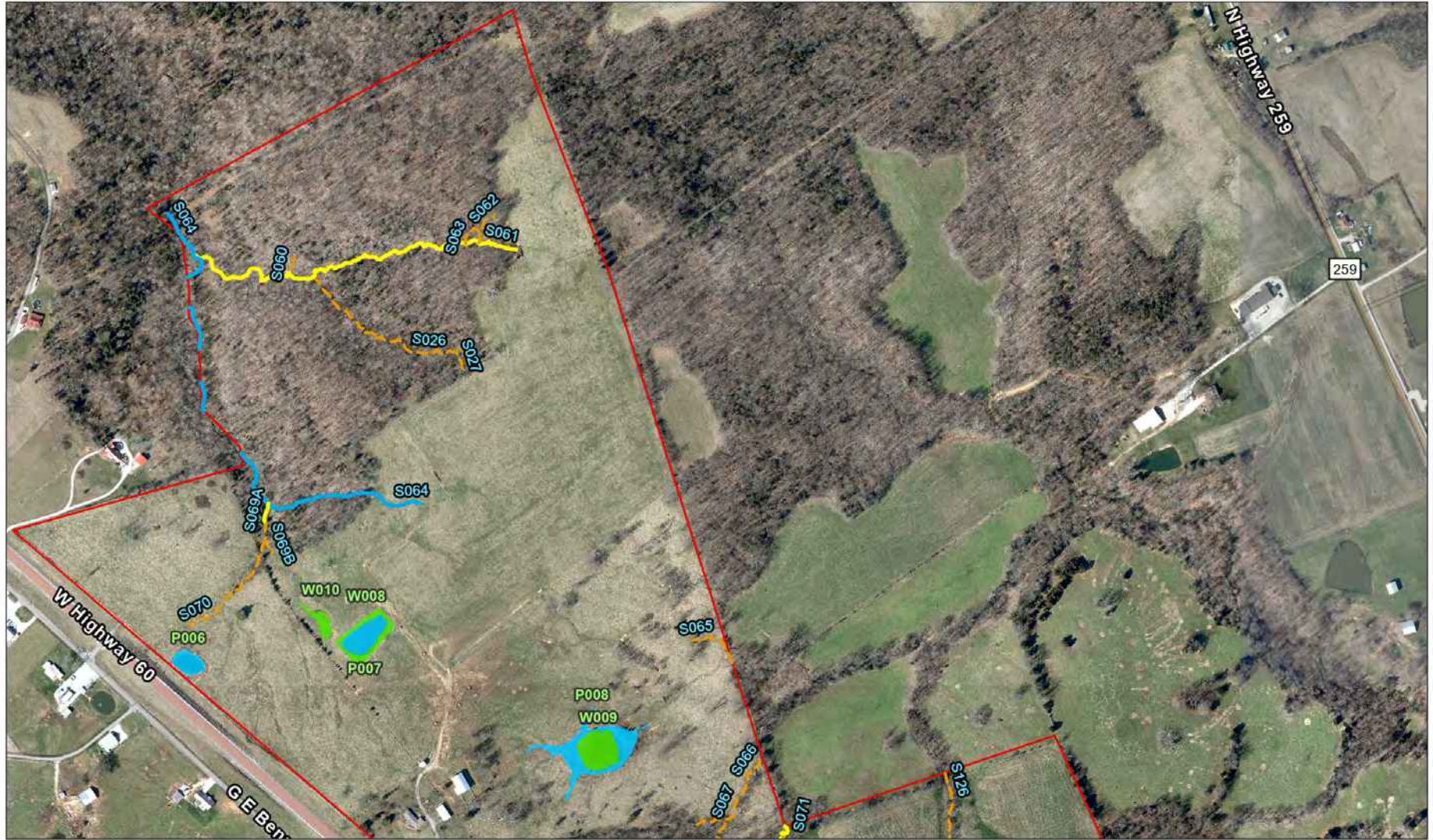
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APPENDIX A

Delineated Features





	Project Area		Ephemeral Stream
	Delineated Wetlands		Intermittent Stream
	PEM		Perennial Stream
	PFO	Wetland Datapoints	
	PUB		Upland
	PSS		Wetland

N

0 500 Feet
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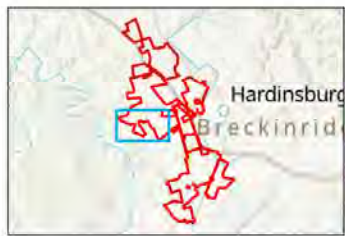
- Notes**
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 2. Data Sources: Stantec (2024)
 3. Background: KyFromAbove Orthoimagery (2021)



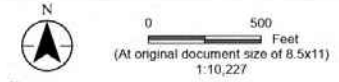
Project Location Breckinridge County, Kentucky	Prepared by KR on 2024-09-16
Client/Project Client Project Report	235300918 EDP Renewables Clayton Creek Solar Wetland Delineation Report
Appendix:	
A	
Title:	
Delineated Features	

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- Project Area
- Delineated Wetlands**
- PEM
- PFO
- PUB
- PSS
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Wetland Datapoints**
- ▲ Upland
- Wetland



- Notes**
1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 2. Data Sources: Stantec (2024)
 3. Background: KyFromAbove Orthoimagery (2021)



Project Location
 Breckinridge County, Kentucky

Prepared by KR on 2024-09-16

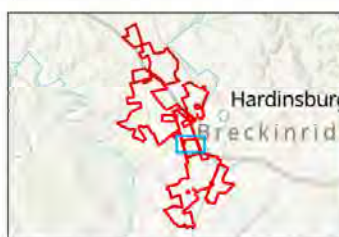
Client/Project
 Client: EDP Renewables
 Project: Clover Creek Solar
 Report: Wetland Delineation Report

Appendix:
A

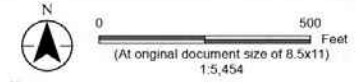
Title:
Delineated Features

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- Project Area
- Drainage Feature
- Delineated Wetlands**
- PEM
- PFO
- PUB
- PSS
- Wetland Datapoints**
- ▲ Upland
- Wetland



- Notes**
1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 2. Data Sources: Stantec (2024)
 3. Background: KyFromAbove Orthoimagery (2021)



Project Location: Breckinridge County, Kentucky Prepared by KR on 2024-09-16

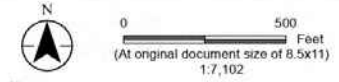
Client/Project: 235300918
 Client: EDP Renewables
 Project: Clover Creek Solar
 Report: Wetland Delineation Report

Appendix:
A
 Title:
Delineated Features

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- Project Area
- Delineated Wetlands**
- PEM
- PFO
- PUB
- PSS
- Ephemeral Stream
- Intermittent Stream
- Wetland Datapoints**
- Upland
- Wetland



- Notes**
1. Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet
 2. Data Sources: Stantec (2024)
 3. Background: KyFromAbove Orthoimagery (2021)

Project Location Breckinridge County, Kentucky	Prepared by KR on 2024-09-16
Client/Project Client Project Report	235300918 EDP Renewables Cloyer Creek Solar Wetland Delineation Report

Appendix:
A
 Title:
Delineated Features



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APPENDIX B

Wetland Determination Datasheets



WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-01
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Footslope Local relief (concave, convex, none): Linear Slope %: 20
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.747091 Long: -86.48885 Datum: WGS84
 Soil Map Unit Name: GwF NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
---	--

Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
---	--

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

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-01

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Ulmus rubra</u>	30	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
2. <u>Liriodendron tulipifera</u>	30	Yes	FACU	
3. <u>Acer rubrum</u>	10	No	FAC	
4. <u>Cercis canadensis</u>	5	No	FACU	
5. _____				
6. _____				
7. _____				
<u>75</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>120</u> x 4 = <u>480</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>180</u> (A) <u>660</u> (B) Prevalence Index = B/A = <u>3.67</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Acer rubrum</u>	10	No	FAC	
2. <u>Ulmus rubra</u>	10	No	FAC	
3. <u>Liriodendron tulipifera</u>	5	No	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
<u>25</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Sassafras albidum</u>	50	Yes	FACU	
2. <u>Ageratina altissima</u>	20	No	FACU	
3. <u>Liriodendron tulipifera</u>	5	No	FACU	
4. <u>Polystichum acrostichoides</u>	5	No	FACU	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>80</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____				
2. _____				
3. _____				
4. _____				
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-02
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): Convex Slope %: 3
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.748489 Long: -86.481084 Datum: WGS84
 Soil Map Unit Name: RnC2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-02

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>		
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
	<u>0</u>	= Total Cover		Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>	
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)					
1. <u>Glycine max</u>	<u>75</u>	<u>Yes</u>	<u>UPL</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
	<u>75</u>	= Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
	<u>0</u>	= Total Cover		Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>	

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-03
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): Concave Slope %: 3
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.749747 Long: -86.480971 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: PUB

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-03

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>60</u> x 1 = <u>60</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>90</u> (A) <u>150</u> (B) Prevalence Index = B/A = <u>1.67</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Carex vulpinoidea</u>	<u>60</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Microstegium vimineum</u>	<u>30</u>	<u>No</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>90</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹
 (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-04
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): Convex Slope %: 3
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.749885 Long: -86.481086 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-04

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>80</u> x 5 = <u>400</u> Column Totals: <u>80</u> (A) <u>400</u> (B) Prevalence Index = B/A = <u>5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	<u>80</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>80</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/4	95	10YR 4/1	5			Clay Loam	

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-05
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 3
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.750711 Long: -86.483114 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-05

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>75</u> x 5 = <u>375</u> Column Totals: <u>75</u> (A) <u>375</u> (B) Prevalence Index = B/A = <u>5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	<u>75</u>	<u>No</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>75</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-06
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 5
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.753632 Long: -86.476041 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) <input checked="" type="checkbox"/> Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes <u>X</u> No ___ Depth (inches): <u>4</u> Water Table Present Yes <u>X</u> No ___ Depth (inches): <u>0</u> Saturation Present Yes <u>X</u> No ___ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-06

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>80</u> x 1 = <u>80</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>90</u> (A) <u>120</u> (B) Prevalence Index = B/A = <u>1.33</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Leersia oryzoides</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Ludwigia peploides</u>	<u>40</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Vernonia angustifolia</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>90</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-07
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): Linear Slope %: 6
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.753606 Long: -86.475934 Datum: WGS84
 Soil Map Unit Name: RoC3 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-07

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>60</u> x 4 = <u>240</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>60</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>4</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Festuca arundinacea</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: - <u>1</u> - Rapid Test for Hydrophytic Vegetation - <u>2</u> - Dominance Test is >50% - <u>3</u> - Prevalence Index is ≤3.0 ¹ - <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Eupatorium capillifolium</u>	<u>15</u>	<u>No</u>	<u>FACU</u>	
3. <u>Vernonia angustifolia</u>	<u>15</u>	<u>No</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>60</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-08
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): Linear Slope %: 7
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.758876 Long: -86.463685 Datum: WGS84
 Soil Map Unit Name: Cu NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-08

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>40</u> x 4 = <u>160</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>340</u> (B) Prevalence Index = B/A = <u>3.4</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Xanthium strumarium</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Digitaria sanguinalis</u>	<u>40</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Setaria pumila</u>	<u>20</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 2 - Dominance Test is >50%

 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹
(Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-08

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)	%	%	Color (moist)	%	Type ¹	Loc ²			
0-16	10YR 4/4	95		10YR 4/6	5	C	M	Sandy Loam		

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-09
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): _____ Slope %: 4
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.757799 Long: -86.464178 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
---	--

Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-09

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Salix nigra</u>	40	Yes	OBL	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	40	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	0	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Elymus virginicus</u>	35	No	FACW	
2. <u>Toxicodendron radicans</u>	25	No	FAC	
3. <u>Phytolacca americana</u>	25	No	FACU	
4. <u>Microstegium vimineum</u>	10	No	FAC	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	95	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
	0	= Total Cover		

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 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>40</u>	x 1 = <u>40</u>
FACW species <u>35</u>	x 2 = <u>70</u>
FAC species <u>35</u>	x 3 = <u>105</u>
FACU species <u>25</u>	x 4 = <u>100</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>135</u> (A)	<u>315</u> (B)
Prevalence Index = B/A = <u>2.33</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹
 (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-10
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.757833 Long: -86.464327 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-10

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>75</u> x 5 = <u>375</u> Column Totals: <u>75</u> (A) <u>375</u> (B) Prevalence Index = B/A = <u>5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	<u>75</u>	<u>Yes</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>75</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-11
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.758912 Long: -86.464183 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) <u>X</u> Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-11

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species <u>35</u> x 4 = <u>140</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>70</u> (A) <u>255</u> (B) Prevalence Index = B/A = <u>3.64</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Verbena urticifolia</u>	<u>30</u>	<u>No</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Lonicera japonica</u>	<u>25</u>	<u>No</u>	<u>FACU</u>	
3. <u>Vernonia angustifolia</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
4. <u>Asclepias tuberosa</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>70</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>_____</u> No <u>X</u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-12
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.761092 Long: -86.473192 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes <u>X</u> No ___ Depth (inches): <u>2</u> Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-12

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>100</u> x 2 = <u>200</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>105</u> (A) <u>215</u> (B) Prevalence Index = B/A = <u>2.05</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Acer rubrum</u>	<u>5</u>	<u>No</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>5</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Bidens frondosa</u>	<u>40</u>	<u>No</u>	<u>FACW</u>	
2. <u>Juncus effusus</u>	<u>30</u>	<u>No</u>	<u>FACW</u>	
3. <u>Cyperus strigosus</u>	<u>30</u>	<u>No</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic Vegetation Present? Yes X No _____

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-13
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.761169 Long: -86.47344 Datum: WGS84
 Soil Map Unit Name: uRobA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-13

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Ulmus americana</u>	30	No	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. <u>Acer rubrum</u>	25	No	FAC	
3. <u>Carya glabra</u>	15	No	FACU	
4. <u>Liquidambar styraciflua</u>	10	No	FAC	
5. <u>Cercis canadensis</u>	5	No	FACU	
6. _____				
7. _____				
	<u>85</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>30</u> x 2 = <u>60</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>90</u> (A) <u>260</u> (B) Prevalence Index = B/A = <u>2.89</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ <small>(Provide supporting data in Remarks or on a separate sheet)</small> - Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Toxicodendron radicans</u>	5	No	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	<u>5</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____				
2. _____				
3. _____				
4. _____				
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-14
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.761778 Long: -86.474995 Datum: WGS84
 Soil Map Unit Name: uRobA NWI classification: _____

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 X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season. Power ROW.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) <input checked="" type="checkbox"/> Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes <u>X</u> No ___ Depth (inches): <u>2</u> Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes <u>X</u> No ___ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-14

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>70</u> x 2 = <u>140</u> FAC species <u>2</u> x 3 = <u>6</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>72</u> (A) <u>146</u> (B) Prevalence Index = B/A = <u>2.03</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Acer rubrum</u>	<u>2</u>	<u>No</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>2</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Juncus effusus</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	<small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small> Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. <u>Cyperus strigosus</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	
3. <u>Bidens frondosa</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>70</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-15
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.761719 Long: -86.474631 Datum: WGS84
 Soil Map Unit Name: uRobA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-15

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Carya glabra</u>	20	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)
2. <u>Liquidambar styraciflua</u>	20	Yes	FAC	
3. <u>Acer rubrum</u>	20	Yes	FAC	
4. <u>Cercis canadensis</u>	10	No	FACU	
5. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>80</u> (A) <u>270</u> (B) Prevalence Index = B/A = <u>3.38</u>
6. _____				
7. _____				
	<u>70</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				Hydrophytic Vegetation Indicators: <u>-</u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>-</u> 3 - Prevalence Index is ≤3.0 ¹ <u>-</u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>-</u> Problematic Hydrophytic Vegetation ¹ (Explain)
1. _____				
2. _____				
3. _____				
4. _____				<small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
5. _____				
6. _____				
7. _____				
8. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
9. _____				
10. _____				
11. _____				
12. _____				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
	<u>0</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____				
2. _____				
3. _____				
4. _____				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: DP-15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)	%	%	Color (moist)	%	Type ¹	Loc ²			
0-16	10YR 5/3	90		10YR 3/6	10	C	M	Clay Loam		
	</									

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-16
 Investigator(s): K. Rubio, M. Angel Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Linear Slope %: 6
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.762138 Long: -86.467915 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-16

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>60</u> x 4 = <u>240</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>60</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>4</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Solanum nigrum</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Festuca arundinacea</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>60</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-17
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 5
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.763341 Long: -86.469082 Datum: WGS84
 Soil Map Unit Name: RsD2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-17

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet:
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>95</u> x 4 = <u>380</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>100</u> (A) <u>405</u> (B) Prevalence Index = B/A = <u>4.05</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Festuca arundinacea</u>	<u>95</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Asclepias tuberosa</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-18
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope %: 5
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.769981 Long: -86.47538 Datum: WGS84
 Soil Map Unit Name: SaA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-18

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>100</u> x 4 = <u>400</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>400</u> (B) Prevalence Index = B/A = <u>4</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Festuca arundinacea</u>	<u>100</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-19
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.772888 Long: -86.477143 Datum: WGS84
 Soil Map Unit Name: RsD2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-19

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>																	
1. <u>Acer rubrum</u>	<u>35</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>45</u></td> <td>x 3 = <u>135</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>75</u> (A)</td> <td><u>255</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.4</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>45</u>	x 3 = <u>135</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>75</u> (A)	<u>255</u> (B)	Prevalence Index = B/A = <u>3.4</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>45</u>	x 3 = <u>135</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>75</u> (A)	<u>255</u> (B)																			
Prevalence Index = B/A = <u>3.4</u>																				
2. <u>Quercus rubra</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>65</u> = Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)																				
1. _____				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>0</u> = Total Cover																				
Herb Stratum (Plot size: <u>5 ft</u>)																				
1. <u>Toxicodendron radicans</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
<u>10</u> = Total Cover																				
Woody Vine Stratum (Plot size: <u>30 ft</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. _____																				
3. _____																				
4. _____																				
<u>0</u> = Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-20
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.772274 Long: -86.484748 Datum: WGS84
 Soil Map Unit Name: uRobA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-20

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>25</u> x 4 = <u>100</u> UPL species <u>75</u> x 5 = <u>375</u> Column Totals: <u>100</u> (A) <u>475</u> (B) Prevalence Index = B/A = <u>4.75</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Zea mays</u>	<u>75</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Festuca arundinacea</u>	<u>25</u>	<u>Yes</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-21
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.74801 Long: -86.464702 Datum: WGS84
 Soil Map Unit Name: St NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-21

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>60</u> x 4 = <u>240</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>110</u> (A) <u>380</u> (B) Prevalence Index = B/A = <u>3.45</u>
1. <u>Acer rubrum</u>	<u>25</u>	Yes	FAC	
2. <u>Quercus rubra</u>	<u>20</u>	Yes	FACU	
3. <u>Ulmus americana</u>	<u>10</u>	No	FACW	
4. _____				
5. _____				
6. _____				
7. _____				
	<u>55</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Rhus copallinum</u>	<u>15</u>	Yes	FACU	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>15</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Vernonia angustifolia</u>	<u>25</u>	Yes	FACU	
2. <u>Toxicodendron radicans</u>	<u>15</u>	Yes	FAC	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	<u>40</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
	<u>0</u>	= Total Cover		

Hydrophytic Vegetation Indicators:
 - 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹
 (Provide supporting data in Remarks or on a separate sheet)

 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-22
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 10
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.747776 Long: -86.464338 Datum: WGS84
 Soil Map Unit Name: St NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-22

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>30</u> x 1 = <u>30</u> FACW species <u>25</u> x 2 = <u>50</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>110</u> (A) <u>250</u> (B) Prevalence Index = B/A = <u>2.27</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Salix nigra</u>	<u>30</u>	<u>Yes</u>	<u>OBL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>30</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Dichanthelium clandestinum</u>	<u>50</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: - <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ - <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Cyperus strigosus</u>	<u>25</u>	<u>No</u>	<u>FACW</u>	
3. <u>Vernonia angustifolia</u>	<u>5</u>	<u>No</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>80</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-23
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Convex Slope %: 20
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.747674 Long: -86.464204 Datum: WGS84
 Soil Map Unit Name: St NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-23

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>35</u> x 3 = <u>105</u> FACU species <u>55</u> x 4 = <u>220</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>90</u> (A) <u>325</u> (B) Prevalence Index = B/A = <u>3.61</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Rhus copallinum</u>	<u>25</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Diospyros virginiana</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>35</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Vernonia angustifolia</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Setaria pumila</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Dichanthelium clandestinum</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>55</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Hydrophytic Vegetation Indicators:
 - 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹
 (Provide supporting data in Remarks or on a separate sheet)

 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-24
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.745459 Long: -86.466881 Datum: WGS84
 Soil Map Unit Name: ZaC2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-24

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Acer rubrum</u>	20	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)
2. <u>Diospyros virginiana</u>	20	Yes	FAC	
3. <u>Quercus rubra</u>	20	Yes	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
<u>60</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>75</u> x 3 = <u>225</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>95</u> (A) <u>305</u> (B) Prevalence Index = B/A = <u>3.21</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Diospyros virginiana</u>	20	Yes	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>20</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Toxicodendron radicans</u>	15	Yes	FAC	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>15</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____				
3. _____				
4. _____				
5. _____				
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-25
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.744215 Long: -86.465409 Datum: WGS84
 Soil Map Unit Name: RsD2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-25

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>		
1. <u>Quercus rubra</u>	35	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)	
2. <u>Diospyros virginiana</u>	20	Yes	FAC		
3. <u>Acer rubrum</u>	15	No	FAC		
4. <u>Ulmus americana</u>	10	No	FACW		
5. _____					
6. _____					
7. _____					
<u>80</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>85</u> x 3 = <u>255</u> FACU species <u>35</u> x 4 = <u>140</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>130</u> (A) <u>415</u> (B) Prevalence Index = B/A = <u>3.19</u>	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>		
1. <u>Acer rubrum</u>	20	Yes	FAC		Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
<u>20</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>		
1. <u>Toxicodendron radicans</u>	30	Yes	FAC		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
<u>30</u> = Total Cover					
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>		
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2. _____					
3. _____					
4. _____					
<u>0</u> = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: Dd-26
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.75237 Long: -86.463761 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: Dp-26

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	Dominance Test worksheet:	
1. <u>Acer rubrum</u>	30	Yes	FAC		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)
2. <u>Diospyros virginiana</u>	10	No	FAC		
3. <u>Quercus rubra</u>	10	No	FACU		
4. _____					
5. _____					
6. _____					
7. _____					
<u>50</u> = Total Cover				Prevalence Index worksheet:	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)					
1. <u>Acer rubrum</u>	30	Yes	FAC		Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>110</u> x 3 = <u>330</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>60</u> x 5 = <u>300</u> Column Totals: <u>180</u> (A) <u>670</u> (B) Prevalence Index = B/A = <u>3.72</u>
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
<u>30</u> = Total Cover					
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
1. <u>Euonymus hederaceus</u>	60	Yes	UPL		
2. <u>Toxicodendron radicans</u>	40	Yes	FAC		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
<u>100</u> = Total Cover					
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.	
1. _____					
2. _____					
3. _____					
4. _____					
<u>0</u> = Total Cover					
Hydrophytic Vegetation Present? Yes <u>X</u> No _____					

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-27
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 2
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.749841 Long: -86.45981 Datum: WGS84
 Soil Map Unit Name: RsD2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-27

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>30</u> x 5 = <u>150</u> Column Totals: <u>90</u> (A) <u>360</u> (B) Prevalence Index = B/A = <u>4</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Acer rubrum</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>30</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Euonymus hederaceus</u>	<u>30</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Eupatorium capillifolium</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>60</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-28
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.750185 Long: -86.458795 Datum: WGS84
 Soil Map Unit Name: RsD2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-28

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>65</u> (A) <u>235</u> (B) Prevalence Index = B/A = <u>3.62</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Dichanthelium clandestinum</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Festuca arundinacea</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Glycine max</u>	<u>5</u>	<u>No</u>	<u>UPL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>65</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>_____</u> No <u>X</u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-29
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 3
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.754414 Long: -86.471138 Datum: WGS84
 Soil Map Unit Name: St NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-29

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>85</u> x 4 = <u>340</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>105</u> (A) <u>400</u> (B) Prevalence Index = B/A = <u>3.81</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Acer rubrum</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>10</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Eupatorium capillifolium</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Ambrosia artemisiifolia</u>	<u>25</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Vernonia angustifolia</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
4. <u>Dichanthelium clandestinum</u>	<u>10</u>	<u>No</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>95</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Hydrophytic Vegetation Indicators:
 - 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹
 (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-30
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.7518870 Long: -86.4704381 Datum: WGS84
 Soil Map Unit Name: ZaC2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No _____ Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry Season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-30

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. <u>Acer rubrum</u>	20	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>75</u> x 3 = <u>225</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>95</u> (A) <u>305</u> (B) Prevalence Index = B/A = <u>3.21</u>
2. <u>Diospyros virginiana</u>	20	Yes	FAC	
3. <u>Quercus rubra</u>	20	Yes	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
<u>60</u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Diospyros virginiana</u>	20	Yes	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>20</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. <u>Toxicodendron radicans</u>	15	Yes	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>15</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-31
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope %: 5
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.751723 Long: -86.474262 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-31

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>90</u> x 4 = <u>360</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>120</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>3.75</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. <u>Rhus copallinum</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>20</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Eupatorium capillifolium</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Vernonia angustifolia</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
3. <u>Ipomoea hederacea</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
4. <u>Cirsium discolor</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	
5. <u>Agrimonia parviflora</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	
6. <u>Juncus effusus</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Hydrophytic Vegetation Indicators:
 - 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹
 (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-32
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 0
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.768243 Long: -86.481143 Datum: WGS84
 Soil Map Unit Name: SaA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-32

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>90</u> x 5 = <u>450</u> Column Totals: <u>90</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	<u>90</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) - Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>90</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-33
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 3
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.768194 Long: -86.481071 Datum: WGS84
 Soil Map Unit Name: SaA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> No ___ Hydric Soil Present? Yes <u>X</u> No ___ Wetland Hydrology Present? Yes <u>X</u> No ___	Is the Sampled Area within a Wetland? Yes <u>X</u> No ___ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) <input checked="" type="checkbox"/> Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes <u>X</u> No ___ Depth (inches): <u>2</u> Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes <u>X</u> No ___ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No ___
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-33

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>40</u> x 2 = <u>80</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>40</u> (A) <u>80</u> (B) Prevalence Index = B/A = <u>2</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Cyperus strigosus</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>40</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-34
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.765575 Long: -86.481833 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-34

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>100</u> x 5 = <u>500</u> Column Totals: <u>100</u> (A) <u>500</u> (B) Prevalence Index = B/A = <u>5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	100	Yes	UPL	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-35
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.767221 Long: -86.481052 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-35

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>60</u> x 5 = <u>300</u> Column Totals: <u>60</u> (A) <u>300</u> (B) Prevalence Index = B/A = <u>5</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Triticum aestivum</u>	<u>60</u>	<u>Yes</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>60</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-36
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.740624 Long: -86.480987 Datum: WGS84
 Soil Map Unit Name: SaB2 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-36

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>40</u> x 4 = <u>160</u> UPL species <u>60</u> x 5 = <u>300</u> Column Totals: <u>100</u> (A) <u>460</u> (B) Prevalence Index = B/A = <u>4.6</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	<u>60</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Festuca arundinacea</u>	<u>40</u>	<u>Yes</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/16/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-37
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.737849 Long: -86.486202 Datum: WGS84
 Soil Map Unit Name: SaA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-37

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>100</u> x 5 = <u>500</u> Column Totals: <u>100</u> (A) <u>500</u> (B) Prevalence Index = B/A = <u>5</u>
Sapling/Shrub Stratum	(Plot size: <u>15 ft</u>)			
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum	(Plot size: <u>5 ft</u>)			
1. <u>Glycine max</u>	<u>100</u>	<u>Yes</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
Woody Vine Stratum	(Plot size: <u>30 ft</u>)			
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic Vegetation Present? Yes No X

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-38
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.735803 Long: -86.477923 Datum: WGS84
 Soil Map Unit Name: RsD3 NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Aquatic Fauna (B13) ___ High Water Table (A2) ___ True Aquatic Plants (B14) ___ Saturation (A3) ___ Hydrogen Sulfide Odor (C1) ___ Water Marks (B1) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Sediment Deposits (B2) ___ Presence of Reduced Iron (C4) ___ Drift Deposits (B3) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Algal Mat or Crust (B4) ___ Thin Muck Surface (C7) ___ Iron Deposits (B5) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-38

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>																	
1. <u>Quercus rubra</u>	50	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>30</u></td> <td>x 5 = <u>150</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>425</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.05</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>30</u>	x 5 = <u>150</u>	Column Totals: <u>105</u> (A)	<u>425</u> (B)	Prevalence Index = B/A = <u>4.05</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>25</u>	x 3 = <u>75</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>30</u>	x 5 = <u>150</u>																			
Column Totals: <u>105</u> (A)	<u>425</u> (B)																			
Prevalence Index = B/A = <u>4.05</u>																				
2. <u>Acer rubrum</u>	20	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>70</u> = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)																				
1. _____				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is ≤3.0 ¹ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>0</u> = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)																				
1. <u>Euonymus hederaceus</u>	30	Yes	UPL	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
2. <u>Toxicodendron radicans</u>	5	No	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
<u>35</u> = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
2. _____																				
3. _____																				
4. _____																				
<u>0</u> = Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/18/2024
 Applicant/Owner: EDP Renewables State: Kent Sampling Point: DP-39
 Investigator(s): KR MA Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Linear Slope %: 1
 Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.760527 Long: -86.480366 Datum: WGS84
 Soil Map Unit Name: uRobA NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___ No X (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X 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 <u>X</u> Hydric Soil Present? Yes ___ No <u>X</u> Wetland Hydrology Present? Yes ___ No <u>X</u>	Is the Sampled Area within a Wetland? Yes ___ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Dry season	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present Yes ___ No <u>X</u> Depth (inches): _____ Water Table Present Yes ___ No <u>X</u> Depth (inches): _____ Saturation Present Yes ___ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ___ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: DP-39

<u>Tree Stratum</u> (Plot size: <u>30 ft</u>)	<u>Absolute % Cover</u>	<u>Dominant Species</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>0</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: - 1 - Rapid Test for Hydrophytic Vegetation - 2 - Dominance Test is >50% - 3 - Prevalence Index is $\leq 3.0^1$ - 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: <u>5 ft</u>)				
1. <u>Glycine max</u>	<u>100</u>	<u>No</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

Remarks: (Include photo numbers here or on a separate sheet.)


APPENDIX C

Photographic Log






PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 1	Date: 7/16/2024		
Coordinates: 37.750704, -86.483233			
Photo Direction: N			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P020			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 2	Date: 7/16/2024		
Coordinates: 37.749276, -86.47766669			
Photo Direction: SE			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P021			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 3	Date: 7/16/2024		
Coordinates: 37.7458672, -86.485319			
Photo Direction: E			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P022			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 4	Date: 7/16/2024		
Coordinates: 37.74533, -86.4780107			
Photo Direction: SE			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P023			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 5	Date: 7/16/2024		
Coordinates: 37.747285, -86.48050781			
Photo Direction: W			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P024			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 6	Date: 7/16/2024		
Coordinates: 37.75085, -86.473133			
Photo Direction: NW			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P025			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 7	Date: 7/16/2024		
Coordinates: 37.754107, -86.4682192			
Photo Direction: SW			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P026			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 8	Date: 7/16/2024		
Coordinates: 37.75590368, -86.465589			
Photo Direction: S			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P027			



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

Photo No.
9

Date:
7/16/2024

Coordinates:
37.7555432, -86.4748015

Photo Direction:
NE

Description:
Palustrine Unconsolidated
Bottom (PUB) Pond P028



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

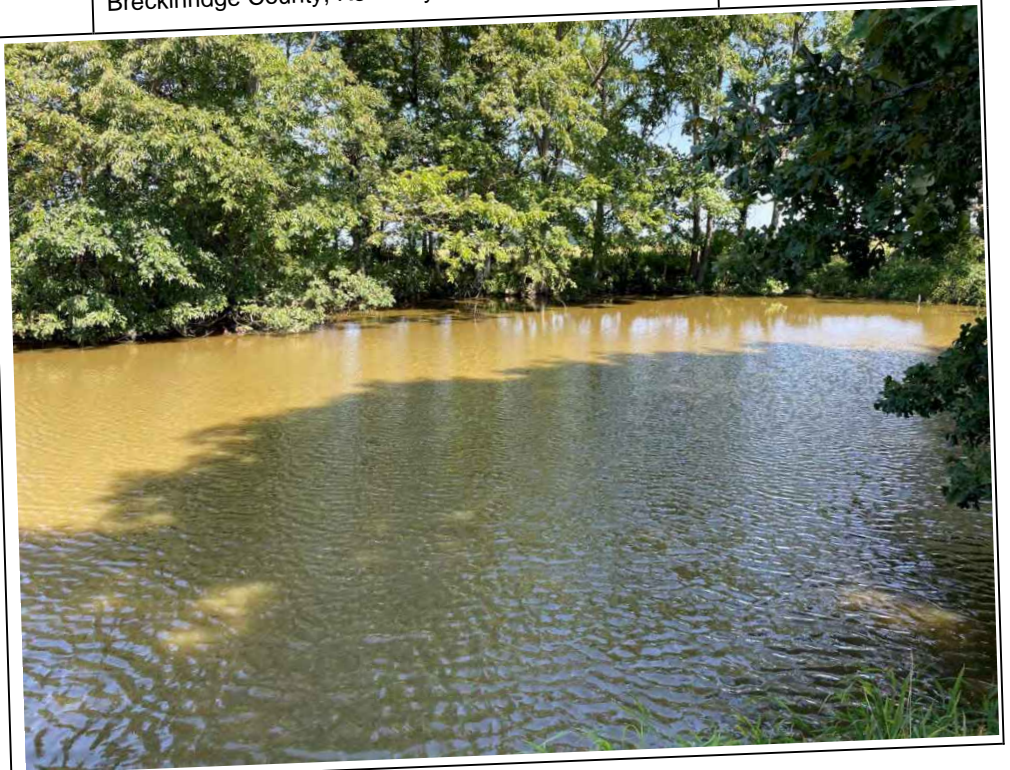
Photo No.
10

Date:
7/16/2024

Coordinates:
37.7603641, -86.477378

Photo Direction:
N

Description:
Palustrine Unconsolidated
Bottom (PUB) Pond P029






PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 11	Date: 7/16/2024		
Coordinates: 37.760478, -86.479206			
Photo Direction: W			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P030			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 12	Date: 7/16/2024		
Coordinates: 37.761211, -86.4738707			
Photo Direction: NW			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P031			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 13	Date: 7/17/2024		
Coordinates: 37.7474125, -86.463783			
Photo Direction: SE			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P032			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 14	Date: 7/17/2024		
Coordinates: 37.750703, -86.4587852			
Photo Direction: NE			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P033			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 15	Date: 7/17/2024		
Coordinates: 37.734143, -86.482156			
Photo Direction: W			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P034			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 16	Date: 7/17/2024		
Coordinates: 37.734912, -86.4794454			
Photo Direction: SE			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P035			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 17	Date: 7/17/2024		
Coordinates: 37.738191, -86.479872			
Photo Direction: W			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P036			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 18	Date: 7/17/2024		
Coordinates: 37.7689006, -86.4832974			
Photo Direction: SW			
Description: Palustrine Unconsolidated Bottom (PUB) Pond P037			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 19	Date: 7/17/2024		
Coordinates: 37.74974131, -86.48089			
Photo Direction: SW			
Description: Palustrine Emergent (PEM) Wetland W026 at DP-03			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 20	Date: 7/17/2024		
Coordinates: 37.7609256, -86.473151			
Photo Direction: N			
Description: Palustrine Emergent (PEM) Wetland W027 at DP-12			



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

Photo No.
21

Date:
7/17/2024

Coordinates:
37.76246421, -86.474075

Photo Direction:
NE

Description:
Palustrine Emergent
(PEM) Wetland W028 at
DP-14



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

Photo No.
22

Date:
7/17/2024

Coordinates:
37.74792374, -86.464396


Photo Direction:
W

Description:
Palustrine Scrub Shrub
(PSS) Wetland W029 at
DP-22






PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 23	Date: 7/18/2024		
Coordinates: 37.75780563, -86.464049			
Photo Direction: W			
Description: Palustrine Scrub Shrub (PSS) Wetland W030 at DP-09			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 24	Date: 7/18/2024		
Coordinates: 37.76821626, -86.481072			
Photo Direction: SE			
Description: Palustrine Emergent (PEM) Wetland W031 at DP-33			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 25	Date: 7/16/2024		
Coordinates: 37.7474842, -86.4886658			
Photo Direction: SE			
Description: Downstream view of intermittent stream S153 (Ben's Hole Branch)			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 26	Date: 7/16/2024		
Coordinates: 37.7474070, -86.4887315			
Photo Direction: S			
Description: Upstream view of intermittent stream S154			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 27	Date: 7/16/2024		
Coordinates: 37.7495004, -86.4821361			
Photo Direction: NE			
Description: Downstream view of ephemeral stream S155			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 28	Date: 7/16/2024		
Coordinates: 37.7480886, -86.4796199			
Photo Direction: SE			
Description: Upstream view of ephemeral stream S156			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 29	Date: 7/16/2024		
Coordinates: 37.7491852, -86.4782486			
Photo Direction: NE			
Description: Downstream view of ephemeral stream S157			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 30	Date: 7/16/2024		
Coordinates: 37.7506071, -86.4742027			
Photo Direction: N			
Description: Downstream view of ephemeral stream S158			



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

Photo No.
31

Date:
7/16/2024

Coordinates:
37.7529770, -86.4797382

Photo Direction:
NE

Description:
Downstream view of
intermittent stream S159.



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

Photo No.
32

Date:
7/16/2024

Coordinates:
37.7534478, -86.4763112


Photo Direction:
NE

Description:
Downstream view of
ephemeral stream S160






PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 33	Date: 7/16/2024		
Coordinates: 37.7481405, -86.4796385			
Photo Direction: NW			
Description: Upstream view of ephemeral stream S161			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 34	Date: 7/16/2024		
Coordinates: 37.7506380, -86.4835622			
Photo Direction: SE			
Description: Upstream view of ephemeral stream S162			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 35	Date: 7/17/2024		
Coordinates: 37.7436284, 86.4661250			
Photo Direction: NE			
Description: Downstream view of intermittent stream S163			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 36	Date: 7/17/2024		
Coordinates: 37.7430050, -86.466304			
Photo Direction: SE			
Description: Downstream view of intermittent stream S164			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 37	Date: 7/17/2024		
Coordinates: 37.75780563, -86.464049			
Photo Direction: S			
Description: Downstream view of ephemeral stream S165			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 38	Date: 7/17/2024		
Coordinates: 37.7513349, -86.4609997			
Photo Direction: NW			
Description: Upstream view of ephemeral stream S166			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 39	Date: 7/17/2024		
Coordinates: 37.7624027, -86.4664914			
Photo Direction: SE			
Description: Downstream view of intermittent stream S167			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 40	Date: 7/17/2024		
Coordinates: 37.76821626, -86.481072			
Photo Direction: SE			
Description: Upstream view of ephemeral stream S168			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 41	Date: 7/17/2024		
Coordinates: 37.7626816, -86.4673921			
Photo Direction: NE			
Description: Upstream view of intermittent stream S169			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 42	Date: 7/17/2024		
Coordinates: 37.7414405, -86.4814579			
Photo Direction: SE			
Description: Downstream view of intermittent stream S170			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 43	Date: 7/17/2024		
Coordinates: 37.7394251, -86.4899636			
Photo Direction: NW			
Description: Upstream view of ephemeral stream S171			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 44	Date: 7/17/2024		
Coordinates: 37.7411064, -86.4864226			
Photo Direction: N			
Description: Upstream view of ephemeral stream S172			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 45	Date: 7/17/2024		
Coordinates: 37.7374983, -86.4811865			
Photo Direction: N			
Description: Upstream view of ephemeral stream S173			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 46	Date: 7/17/2024		
Coordinates: 37.7375366, -86.4800918			
Photo Direction: SE			
Description: Downstream view of ephemeral stream S174			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 47	Date: 7/17/2024		
Coordinates: 37.7355883, -86.4878646			
Photo Direction: SW			
Description: Upstream view of ephemeral stream S175			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 48	Date: 7/18/2024		
Coordinates: 37.7728692, -86.4771514			
Photo Direction: NE			
Description: Upstream view of ephemeral stream S176			




PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 49	Date: 7/17/2024		
Coordinates: 37.7516848, -86.470808			
Photo Direction: NE			
Description: Downstream view of ephemeral stream S177			



PHOTOGRAPHIC LOG

Project Name: Clover Creek Solar		County/State: Breckinridge County, Kentucky	Project No. 235300918
Photo No. 50	Date: 7/17/2024		
Coordinates: 37.7520280, -86.4704858			
Photo Direction: NE			
Description: Downstream view of ephemeral stream S178			



PHOTOGRAPHIC LOG

Project Name:
Clover Creek Solar

County/State:
Breckinridge County, Kentucky

Project No.
235300918

Photo No.
51

Date:
7/17/2024

Coordinates:
37.7394766, -86.4817319

Photo Direction:
N

Description:
Upstream view of
intermittent stream S179



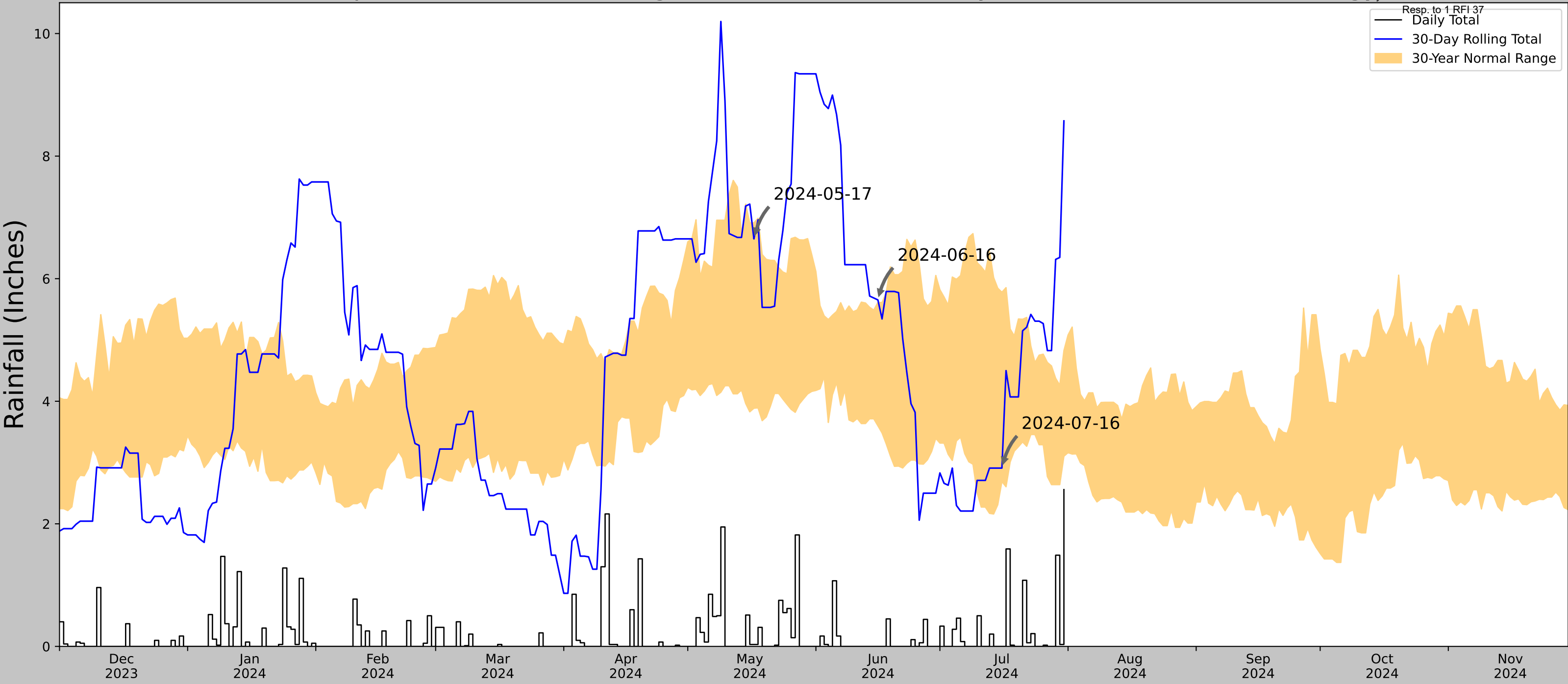
APPENDIX D

Antecedent Precipitation Tool Results



Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

xy. ESB Case No. 24-253



Coordinates	37.7507059, -86.4838820
Observation Date	2024-07-16
Elevation (ft)	631.628
Drought Index (PDSI)	Incipient wetness (2024-06)
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-16	2.689764	5.779134	2.909449	Normal	2	3	6
2024-06-16	3.599606	5.611418	5.653543	Wet	3	2	6
2024-05-17	3.885827	6.91063	6.649607	Normal	2	1	2
Result							Normal Conditions - 14

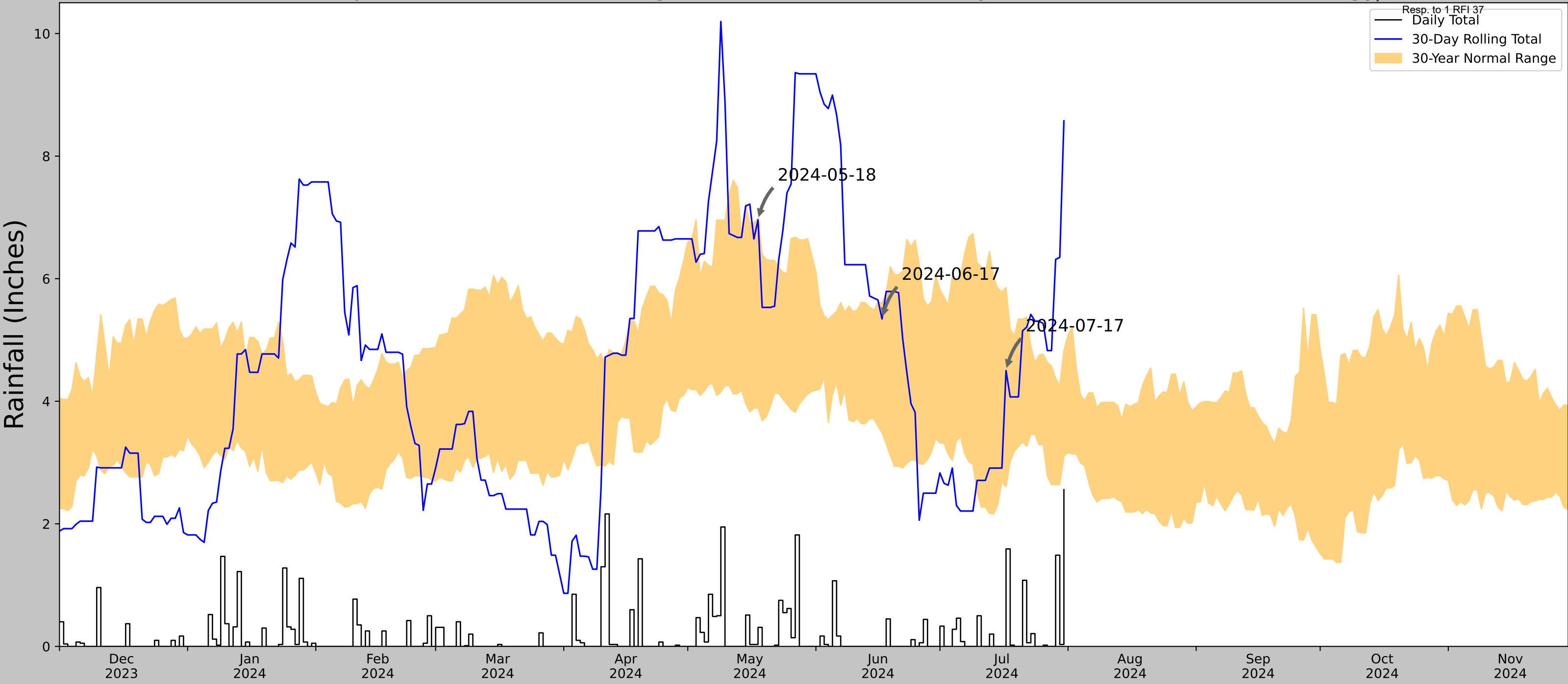
Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ROUGH RVR LAKE	37.6178, -86.5044	560.039	9.251	71.589	4.825	11233	87
MCDANIELS	37.6497, -86.4308	424.869	4.591	135.17	2.687	87	3
CANEYVILLE 1W	37.4183, -86.5008	580.053	13.786	20.014	6.48	23	0
LEITCHFIELD 2 N	37.5108, -86.2892	620.079	13.913	60.04	7.096	5	0
HAWESVILLE 6.8 SE	37.825, -86.6725	623.032	17.01	62.993	8.726	3	0
HARTFORD 3.5 NE	37.4866, -86.8479	558.071	20.886	1.968	9.44	1	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

xy: ESB Case No. 24-253



Coordinates	37.7507059, -86.4838820
Observation Date	2024-07-17
Elevation (ft)	631.628
Drought Index (PDSI)	Incipient wetness (2024-06)
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-17	2.604331	5.854331	4.5	Normal	2	3	6
2024-06-17	3.483071	5.611418	5.34252	Normal	2	2	4
2024-05-18	3.892126	6.986221	6.96063	Normal	2	1	2
Result							Normal Conditions - 12

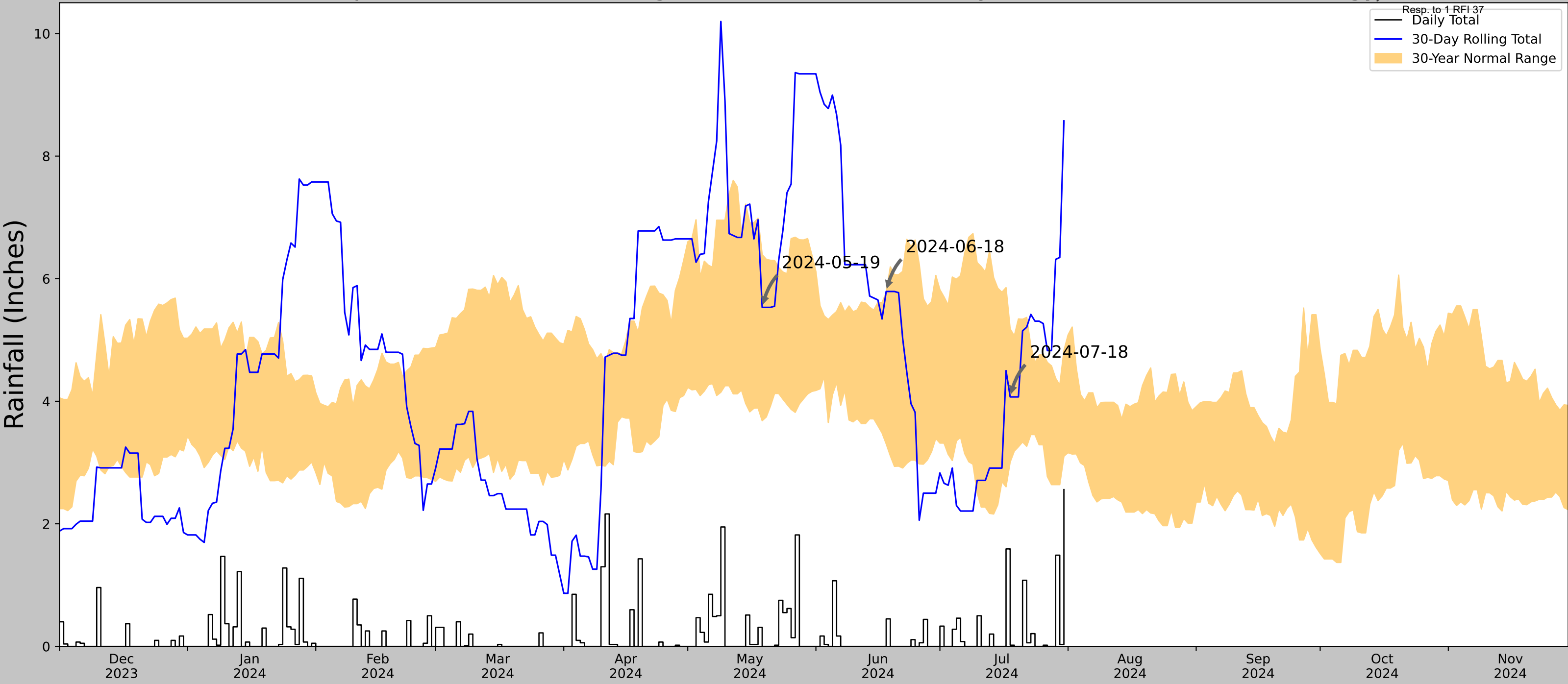
Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ROUGH RVR LAKE	37.6178, -86.5044	560.039	9.251	71.589	4.825	11233	87
MCDANIELS	37.6497, -86.4308	424.869	4.591	135.17	2.687	87	3
CANEYVILLE 1W	37.4183, -86.5008	580.053	13.786	20.014	6.48	23	0
LEITCHFIELD 2 N	37.5108, -86.2892	620.079	13.913	60.04	7.096	5	0
HAWESVILLE 6.8 SE	37.825, -86.6725	623.032	17.01	62.993	8.726	3	0
HARTFORD 3.5 NE	37.4866, -86.8479	558.071	20.886	1.968	9.44	1	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

xy. ESB Case No. 24-253



Coordinates	37.7507059, -86.4838820
Observation Date	2024-07-18
Elevation (ft)	631.628
Drought Index (PDSI)	Incipient wetness (2024-06)
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-18	3.008662	5.179528	4.070866	Normal	2	3	6
2024-06-18	3.306299	5.768504	5.791339	Wet	3	2	6
2024-05-19	3.682677	6.394488	5.531496	Normal	2	1	2
Result							Normal Conditions - 14

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ROUGH RVR LAKE	37.6178, -86.5044	560.039	9.251	71.589	4.825	11233	87
MCDANIELS	37.6497, -86.4308	424.869	4.591	135.17	2.687	87	3
CANEYVILLE 1W	37.4183, -86.5008	580.053	13.786	20.014	6.48	23	0
LEITCHFIELD 2 N	37.5108, -86.2892	620.079	13.913	60.04	7.096	5	0
HAWESVILLE 6.8 SE	37.825, -86.6725	623.032	17.01	62.993	8.726	3	0
HARTFORD 3.5 NE	37.4866, -86.8479	558.071	20.886	1.968	9.44	1	0