

#### **WETLAND DELINEATION REPORT**

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

Updated October 2024

#### Prepared for:



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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



#### 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

## 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 nonjurisdictional 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 29<sup>th</sup>, 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 conduction using the below parameters.

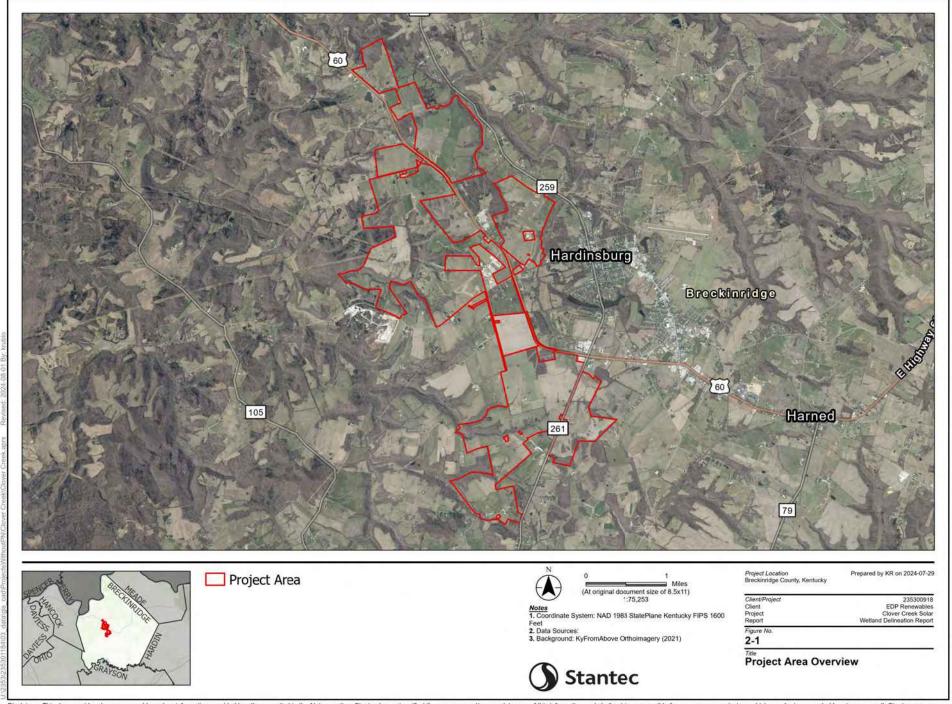
USACE and USEPA assert jurisdiction over the following waters:

- 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.



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.

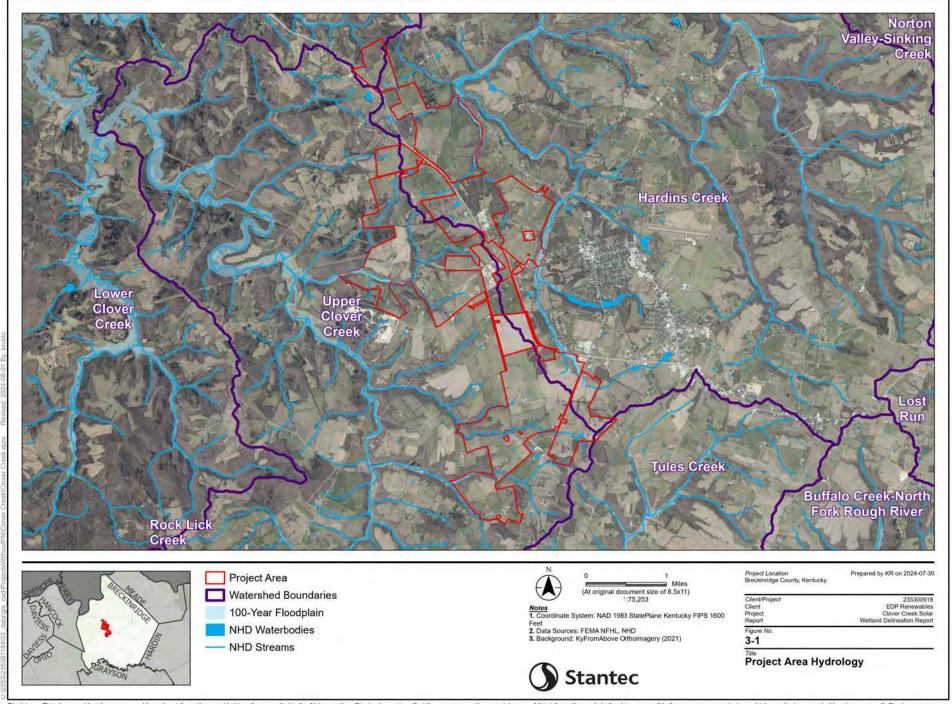
#### 3.2 Hydrology

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.





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.



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
	Sc	oil Survey: Breckin	ridge County, K	entucky (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%

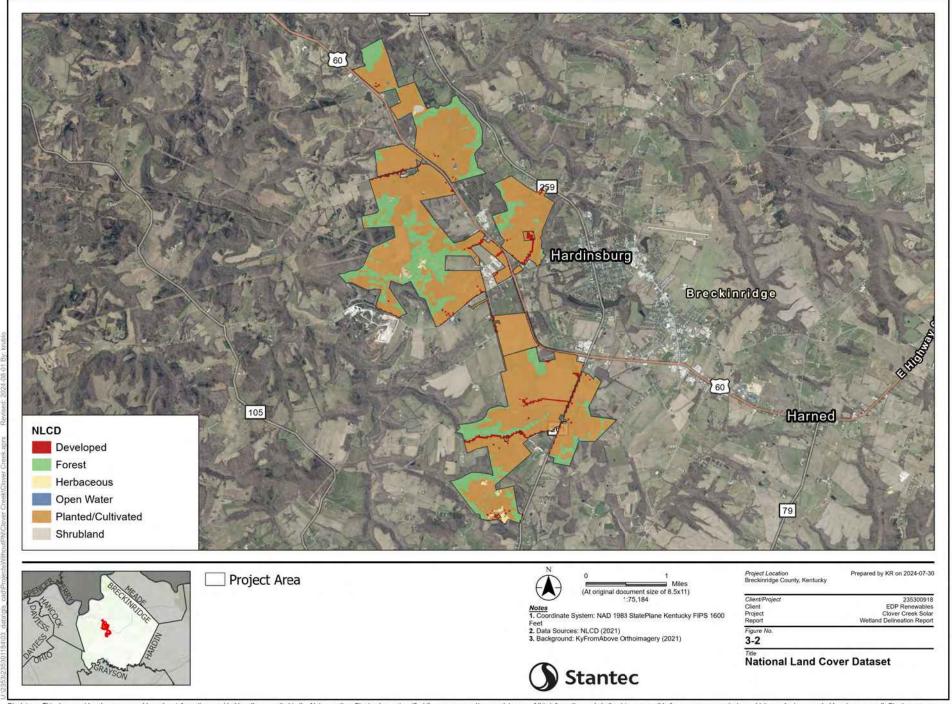
#### 3 Proposed Project Location

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%

#### 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



3 Proposed Project Location

#### 3.4 Land Use

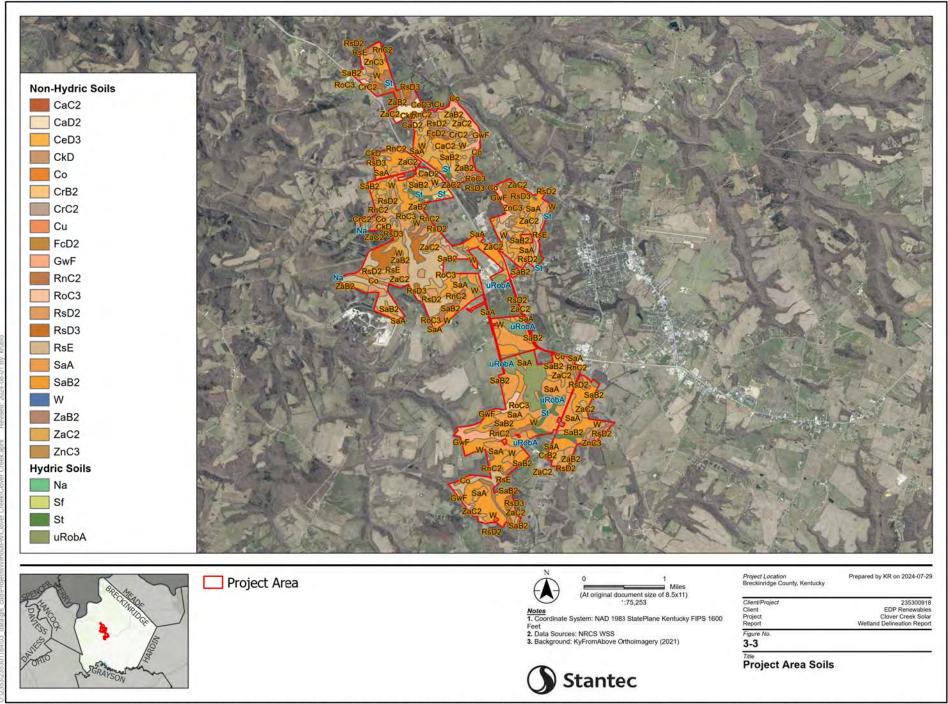
The National Land Cover Dataset (NLCD) maps most of the Project Area as planted/cultivated, which constitutes 74.3 percent of the Surveyed Area (Table 3-2, Figure 3-3). Five additional land cover types are mapped within the Surveyed Area and comprise the remaining 25.7 percent.

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	3604.6	100%

Source: US Geological Survey (USGS) 2021 Notes: NLCD - National Land Cover Dataset

Percentages and acreages may be slightly off due to rounding.



4 Assessment Methodology

## 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).



4 Assessment Methodology

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 cripus</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.



4 Assessment Methodology

#### 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.



#### 5.1 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

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

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
		Potentially Jur	isdictional Subtotal	4.19	
		Potentially	Non-Jurisdictional	18.45	

#### 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.

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	80.0	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

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

Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
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

Map ID	Stream Classification	Latitude	Longitude	Linear Feet within Project Area	Miles within Project Area	Potentially Jurisdictional?
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

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

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

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
		Potentially Juri	86,348.5	16.4		
		Potentially	59,948.9	11.4		
			146,297.4	27.7		

<sup>&</sup>lt;sup>1</sup> Map identification represents unique designations given to each stream during field surveys.

<sup>&</sup>lt;sup>2</sup> Stream classification determined from topographic maps and field observations.

<sup>&</sup>lt;sup>3</sup> Latitude and longitude presented in North American Datum of 1983 decimal degrees.

<sup>&</sup>lt;sup>4</sup> 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.

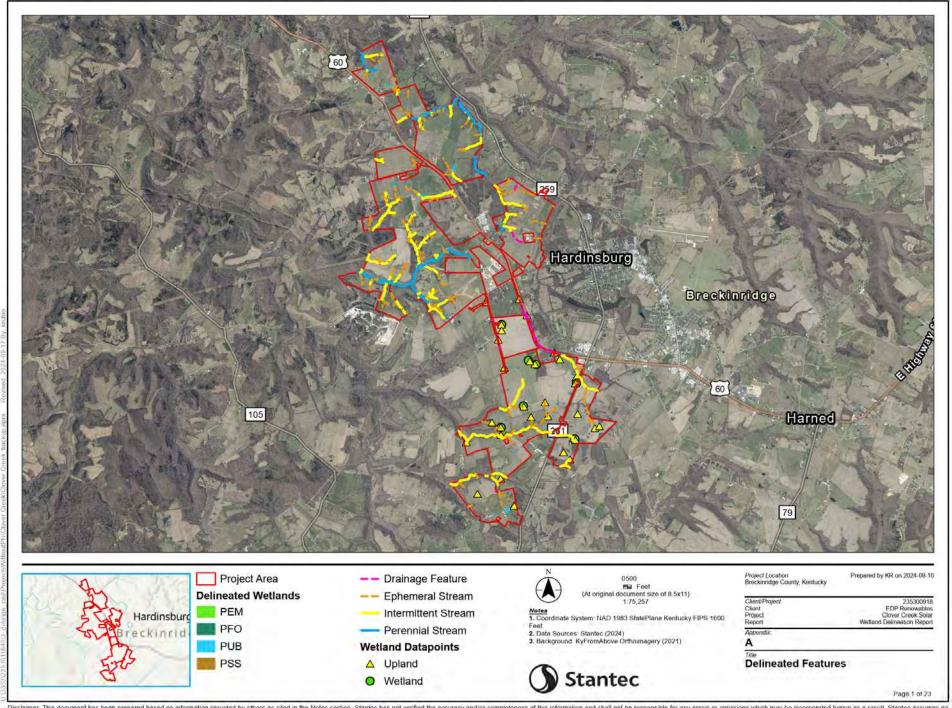


## 7 References

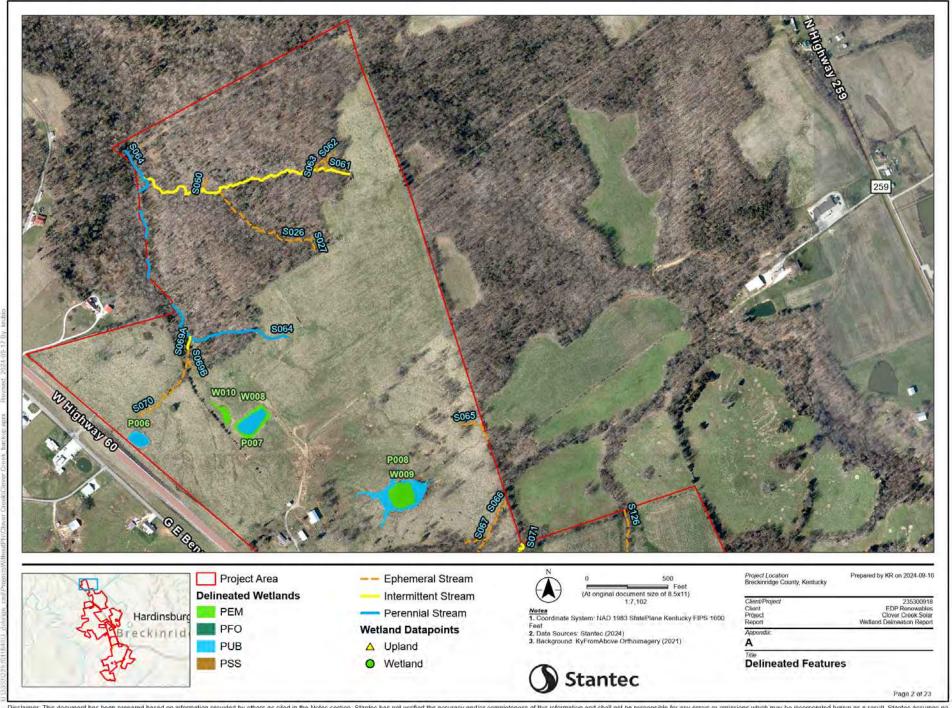
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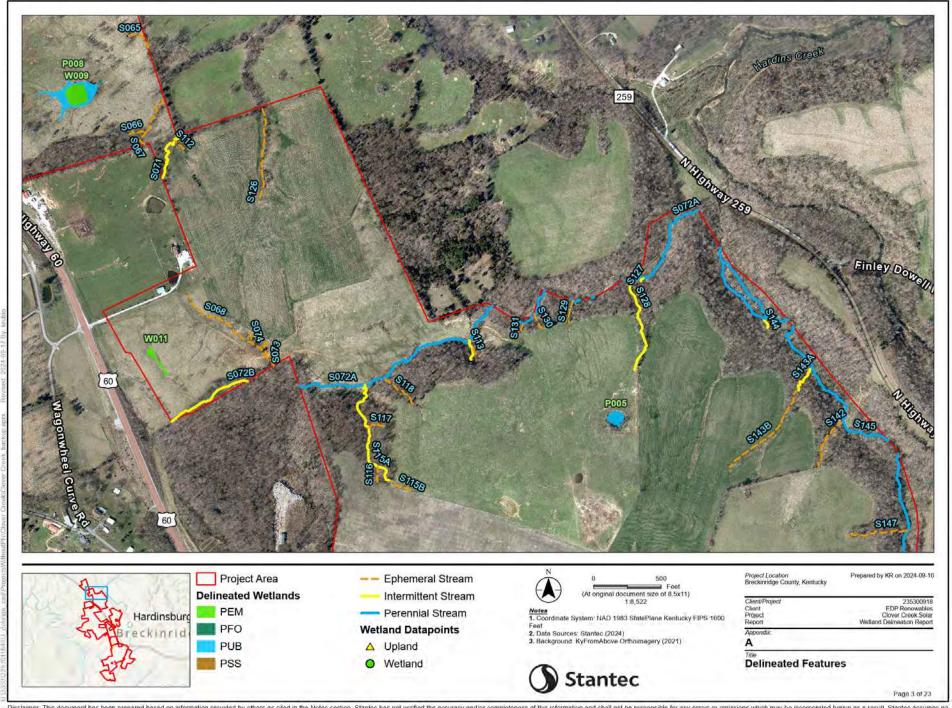


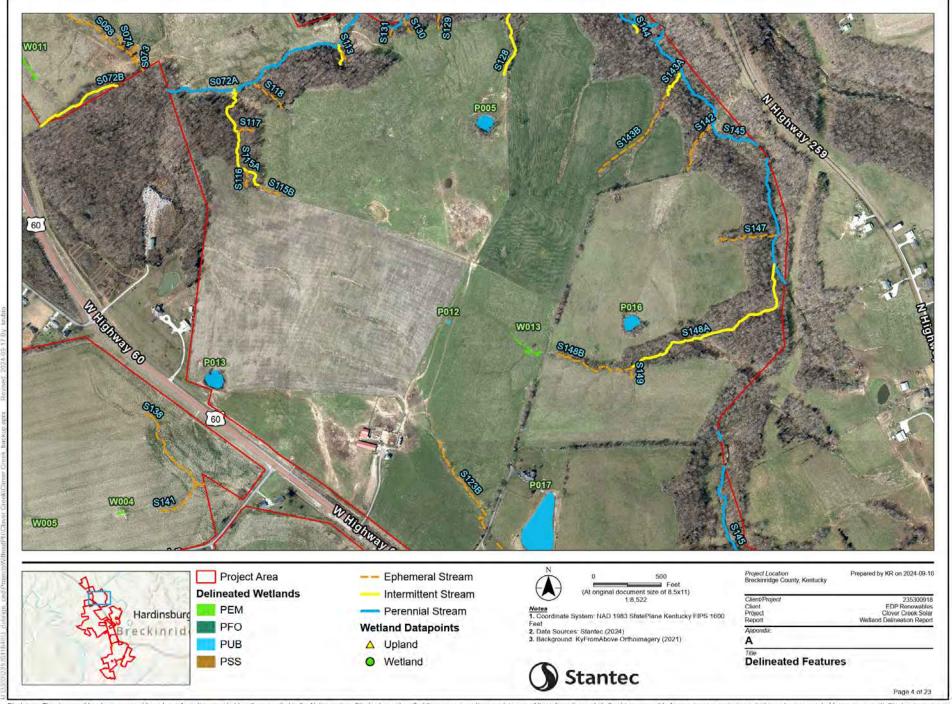
# **APPENDIX A Delineated Features**

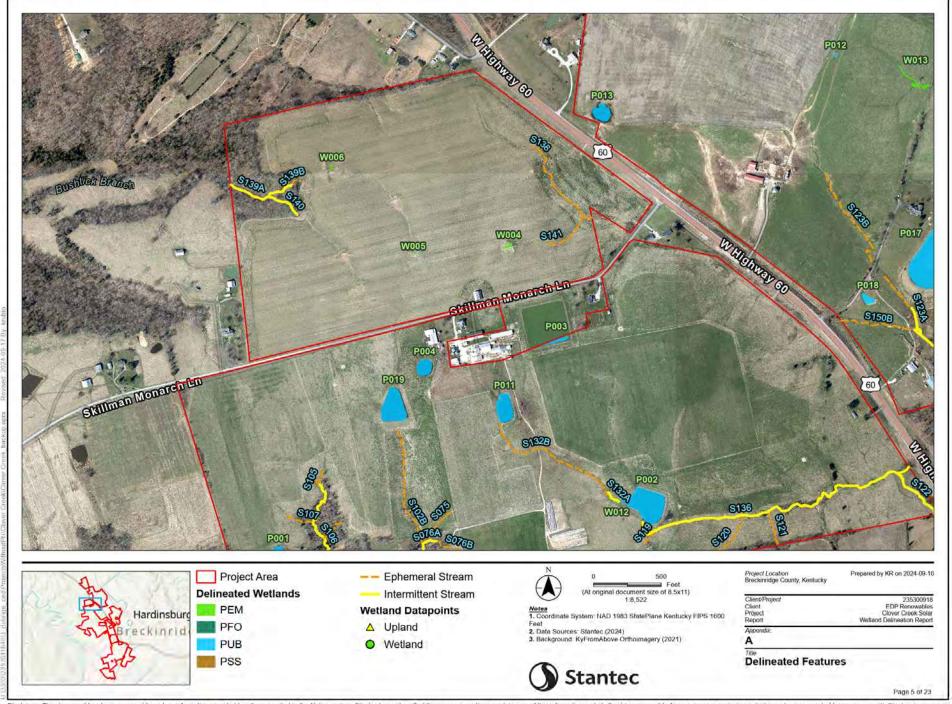


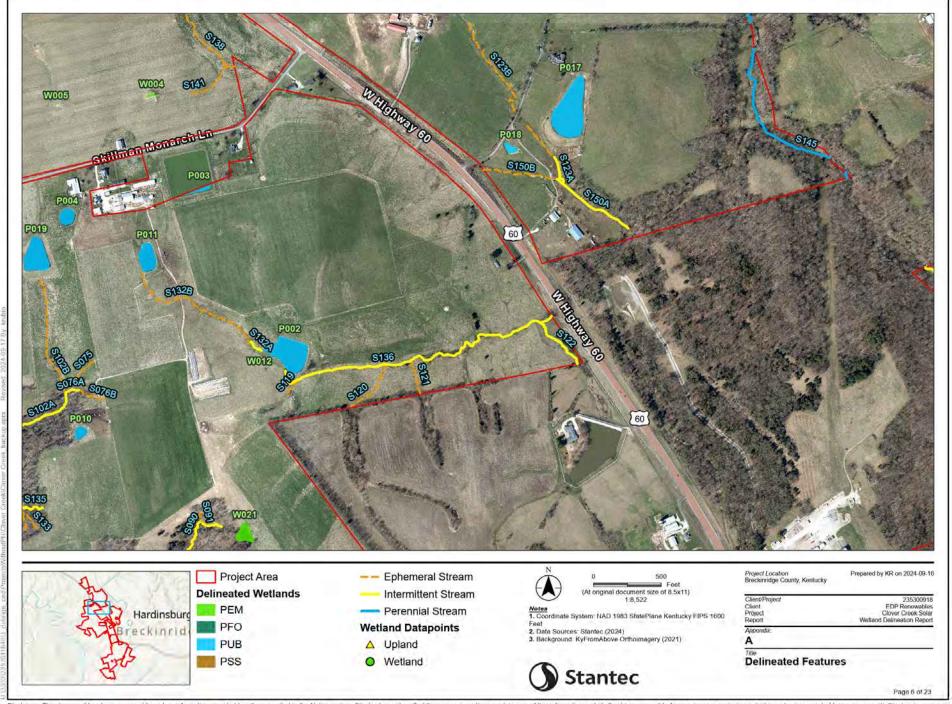
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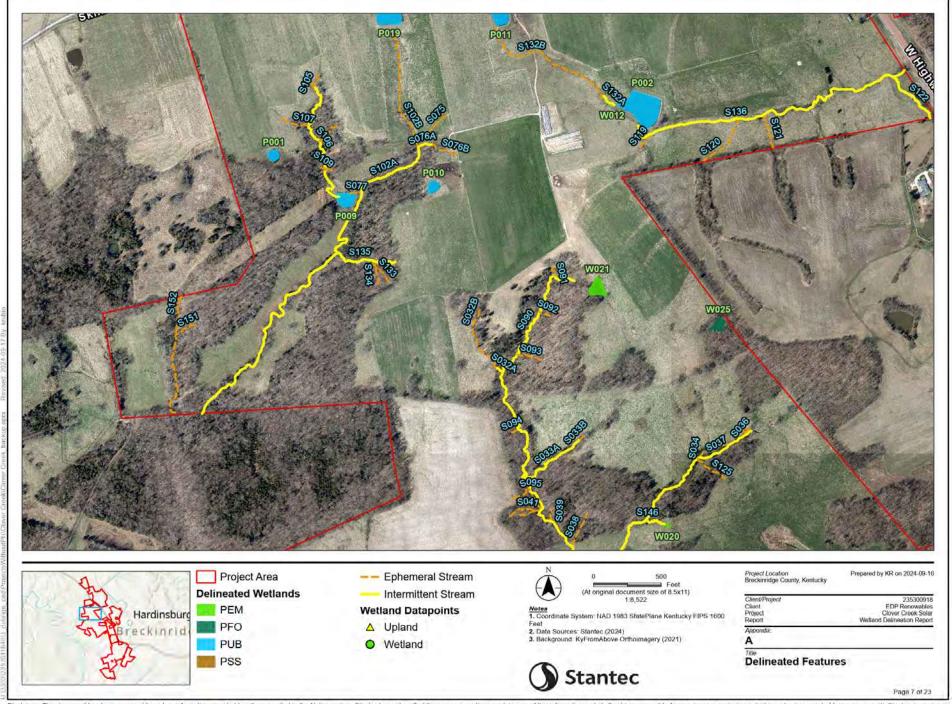


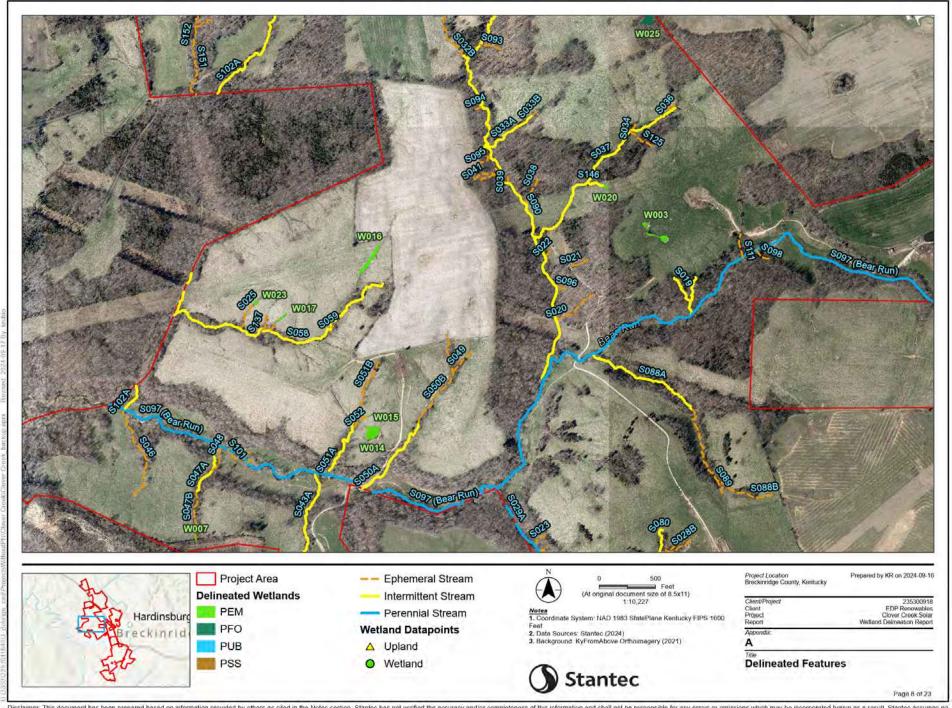


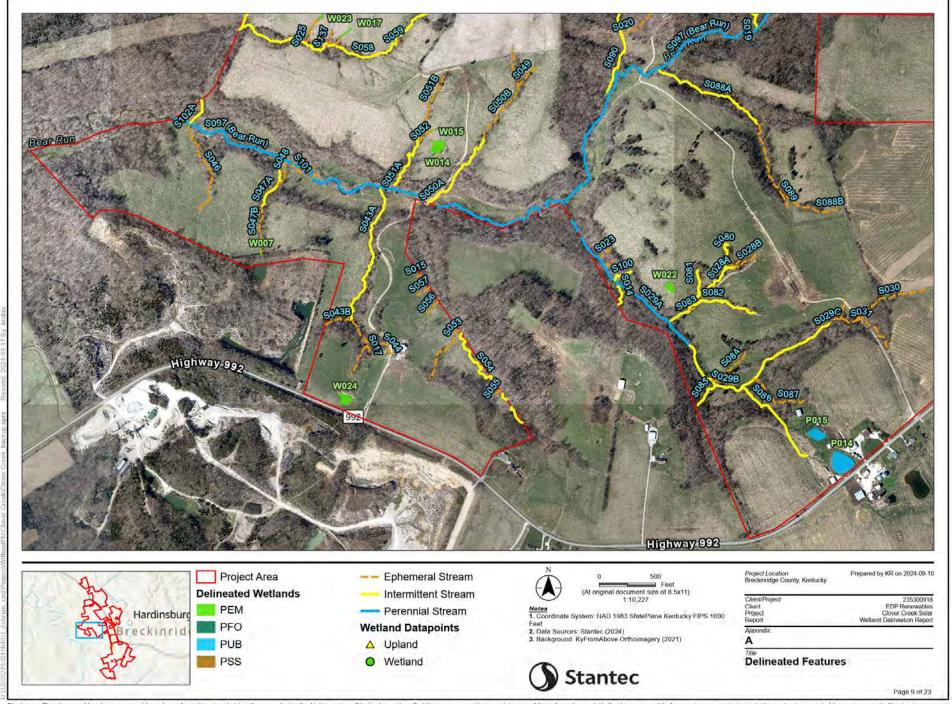


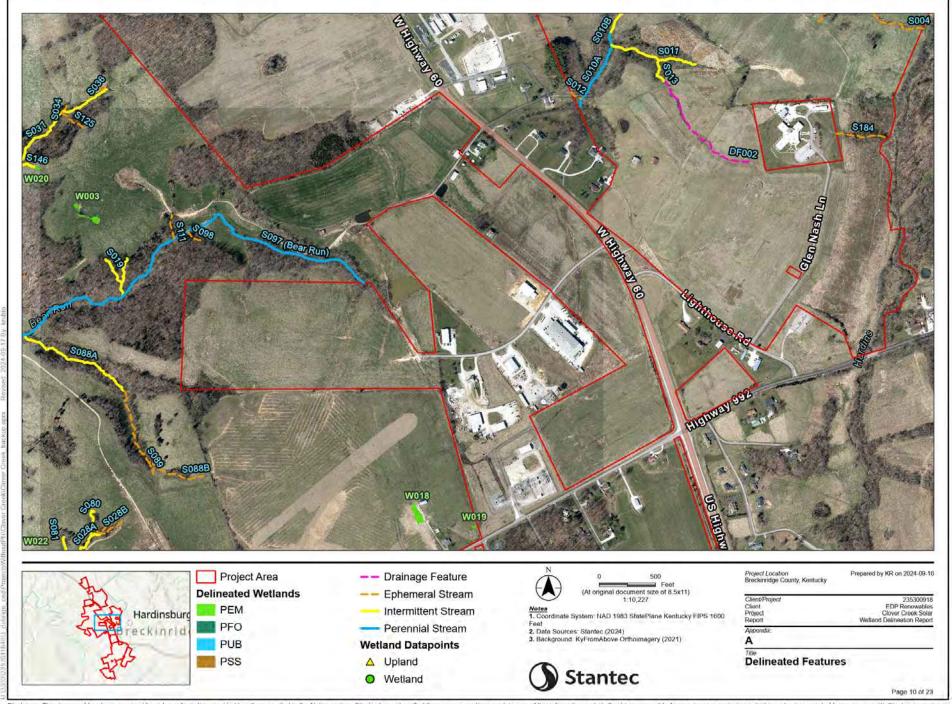


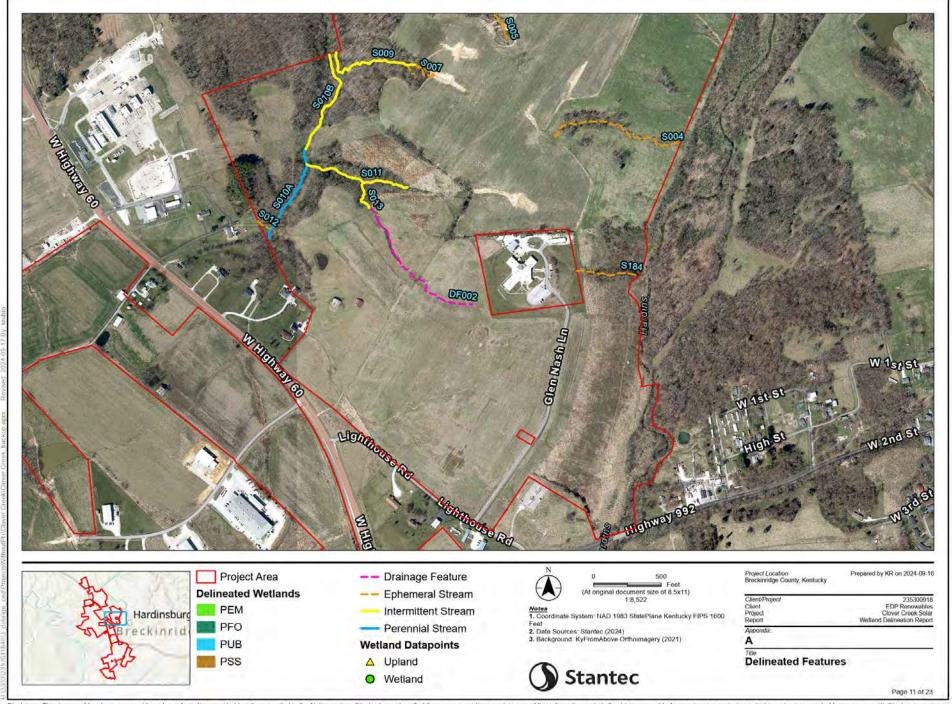


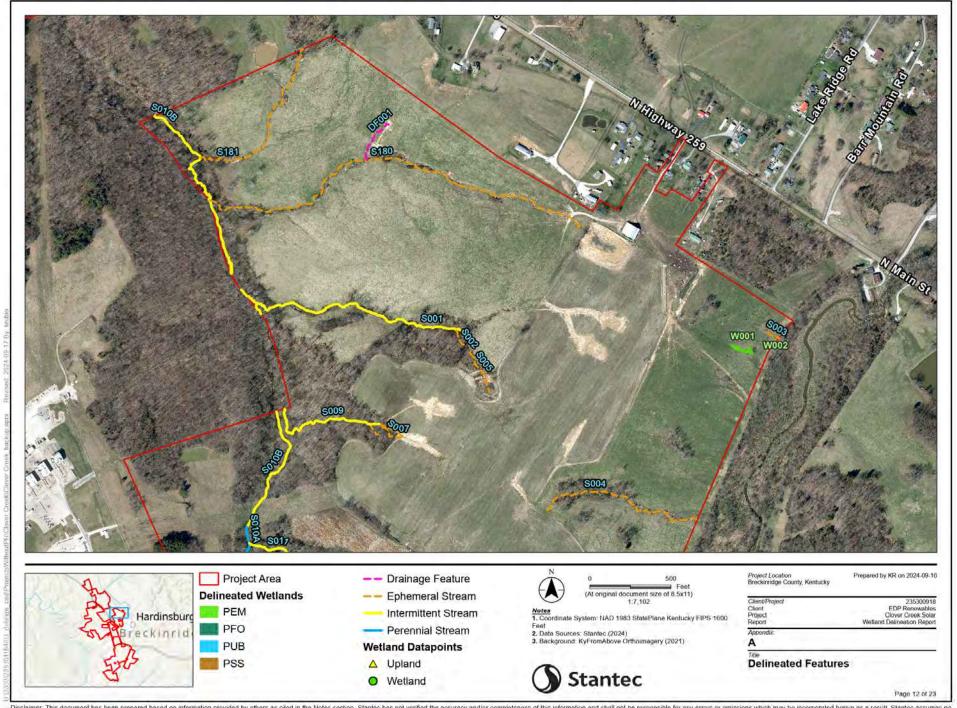


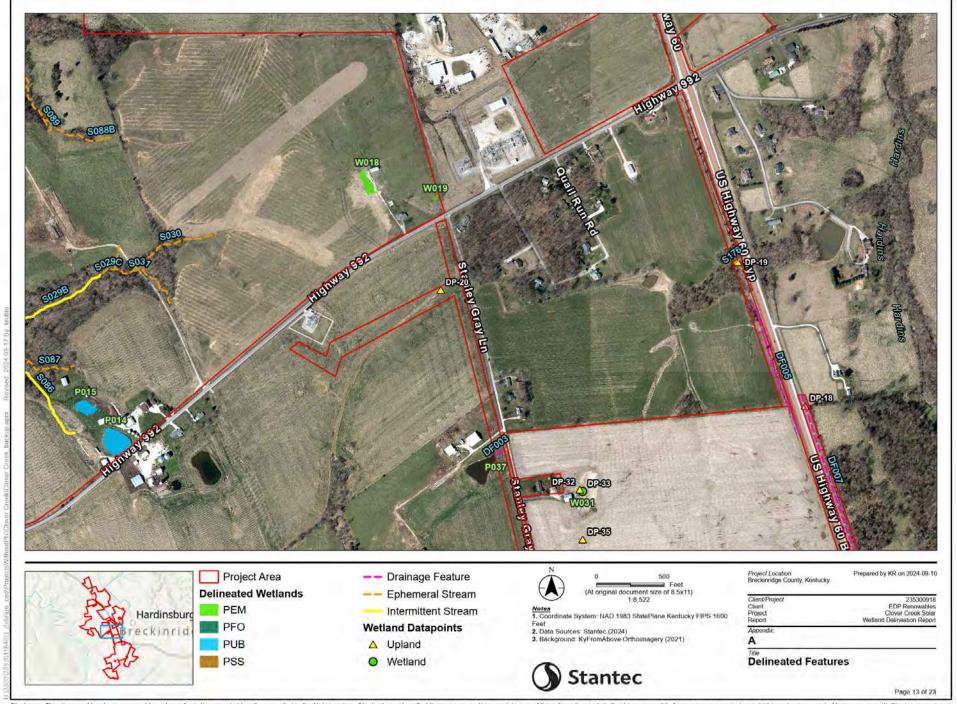


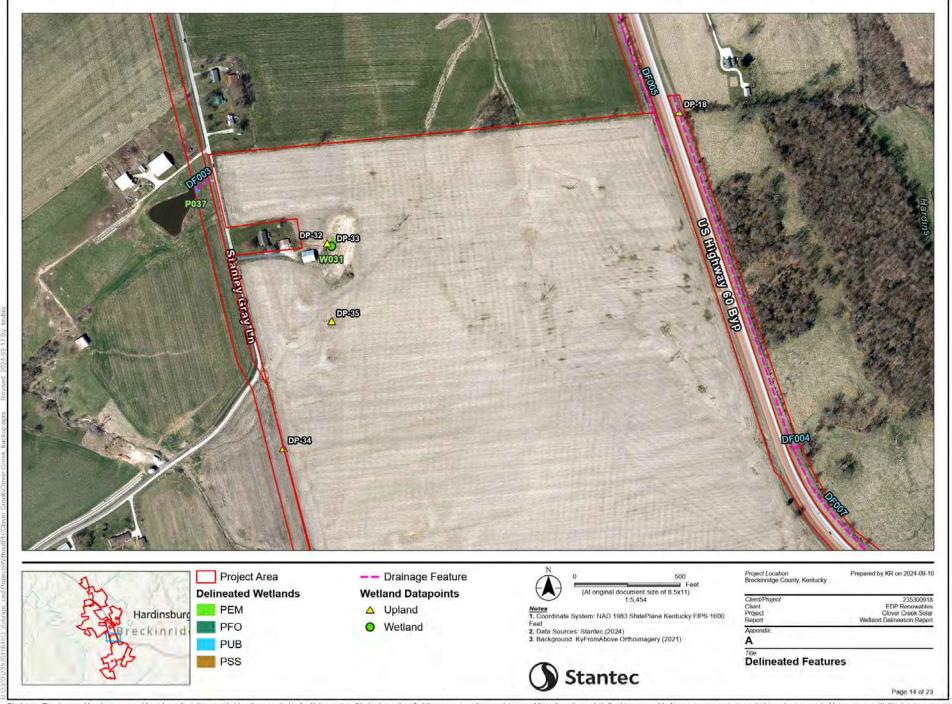


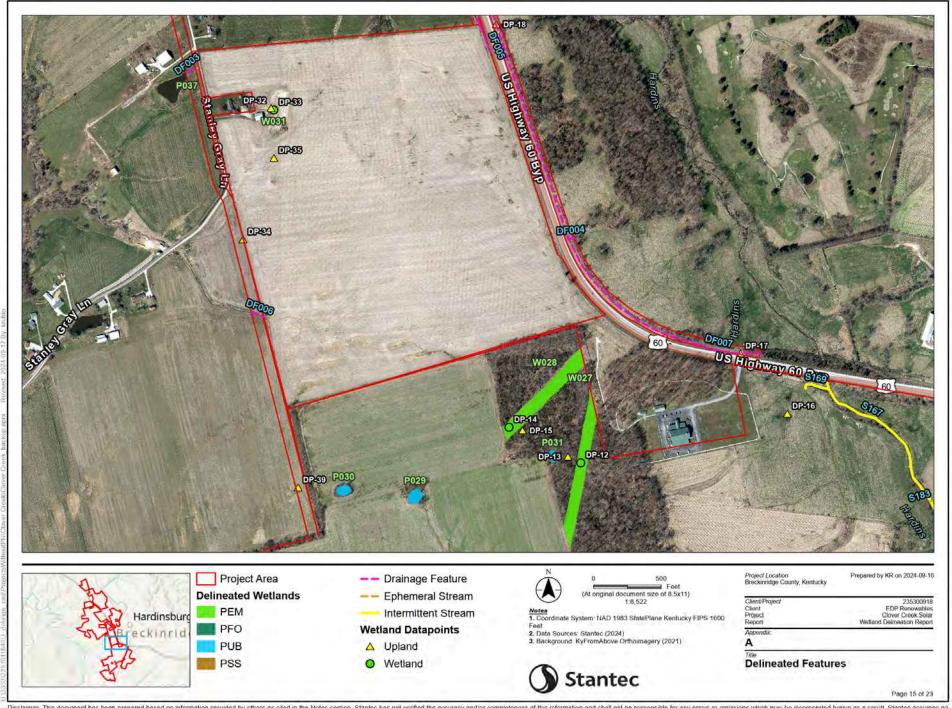


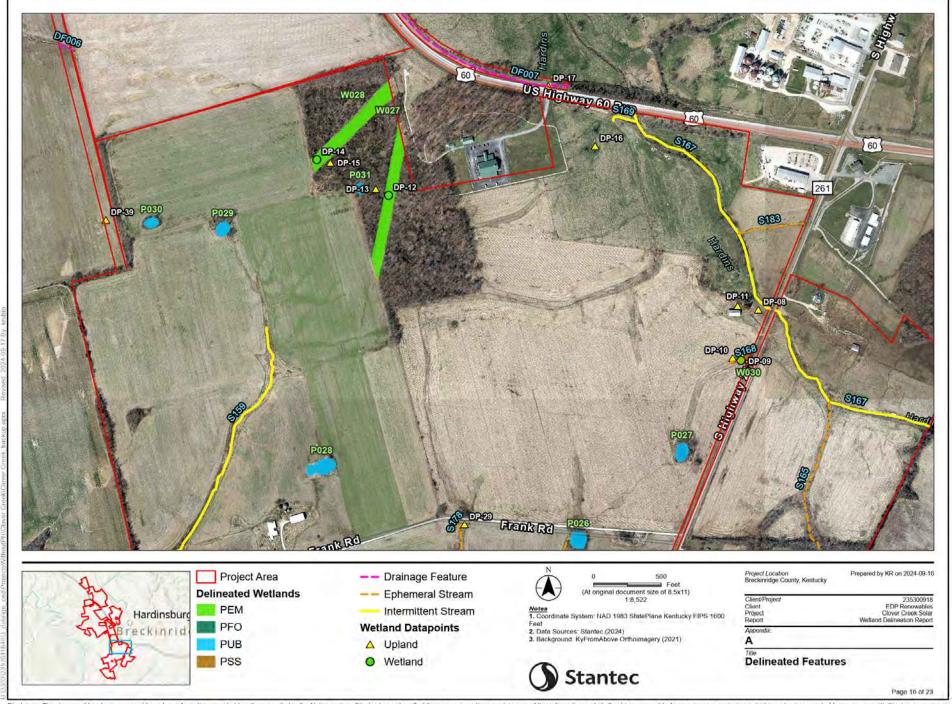


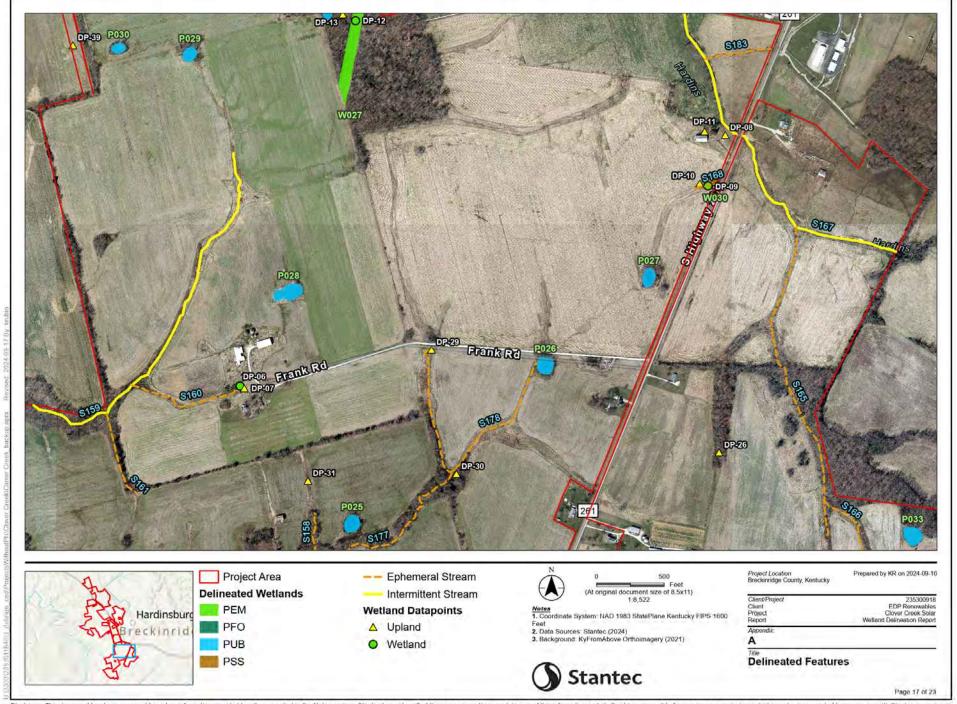


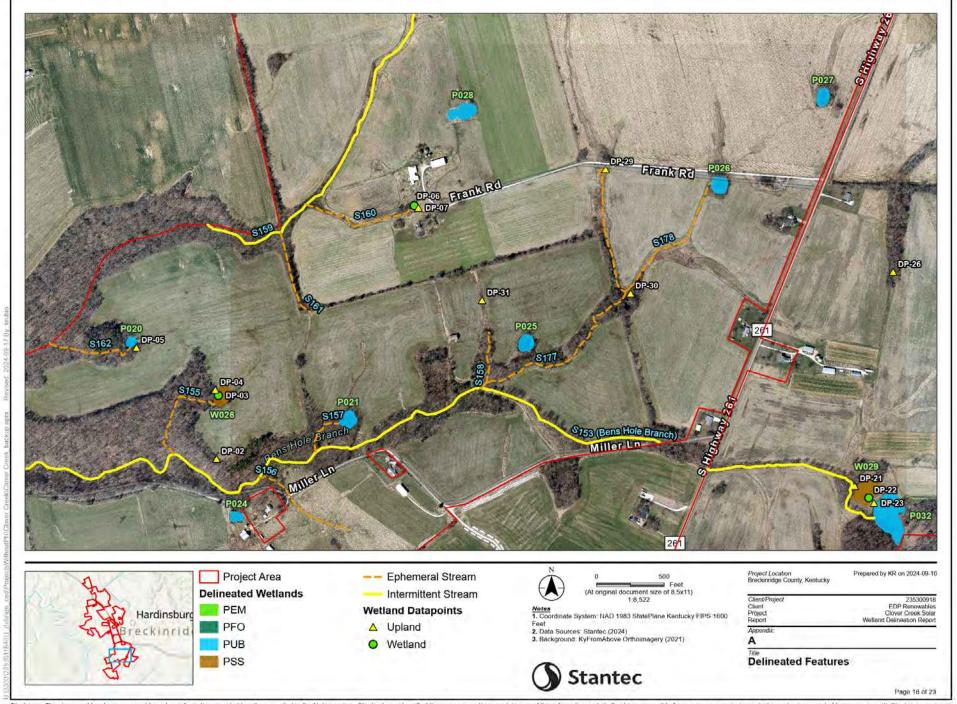


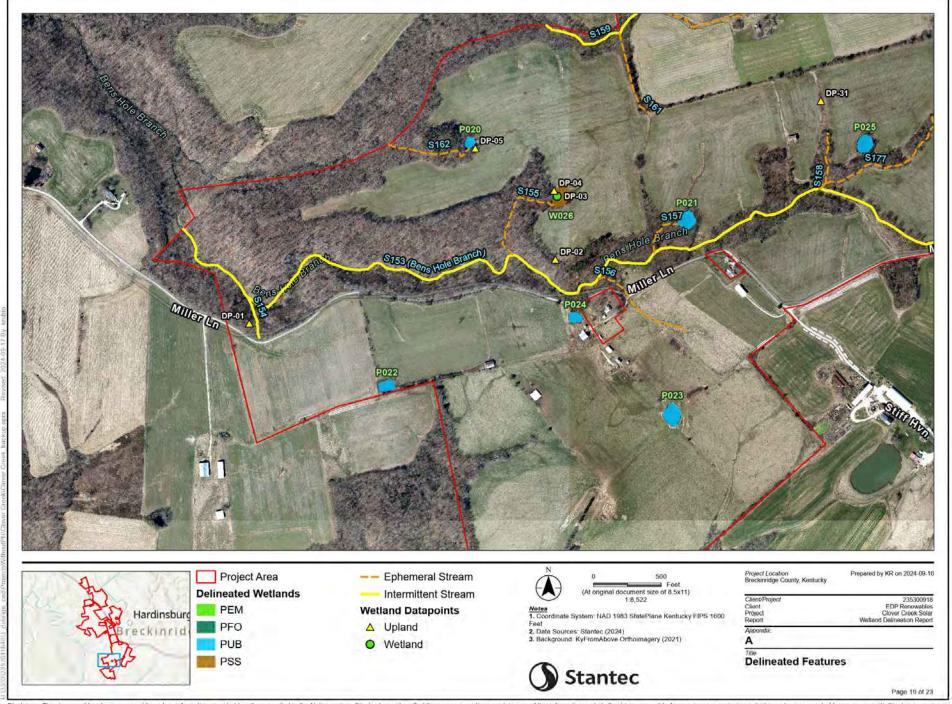


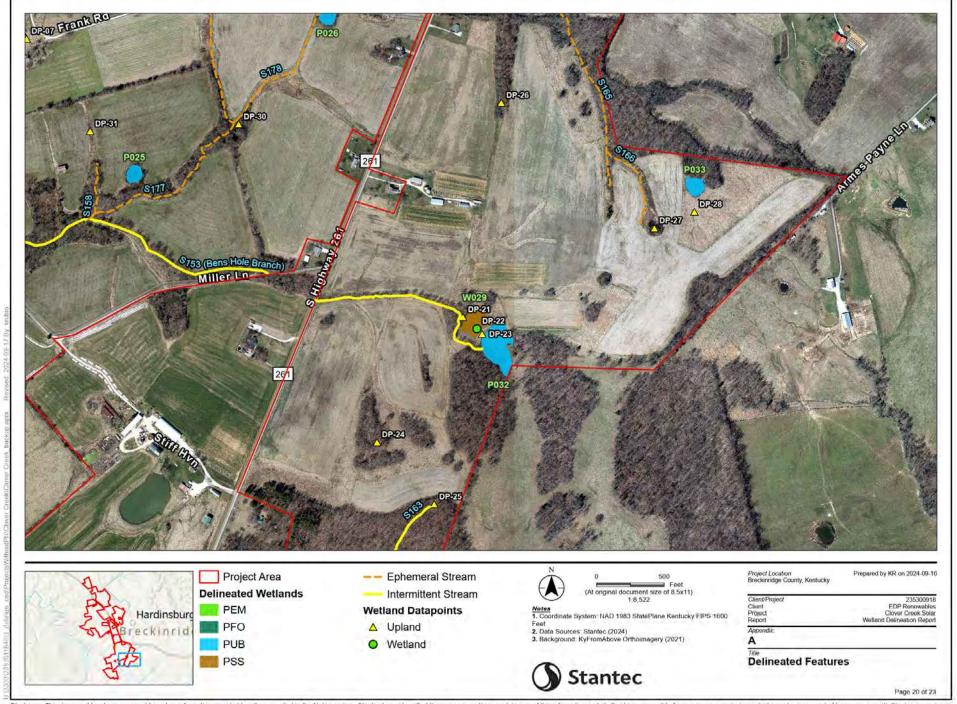


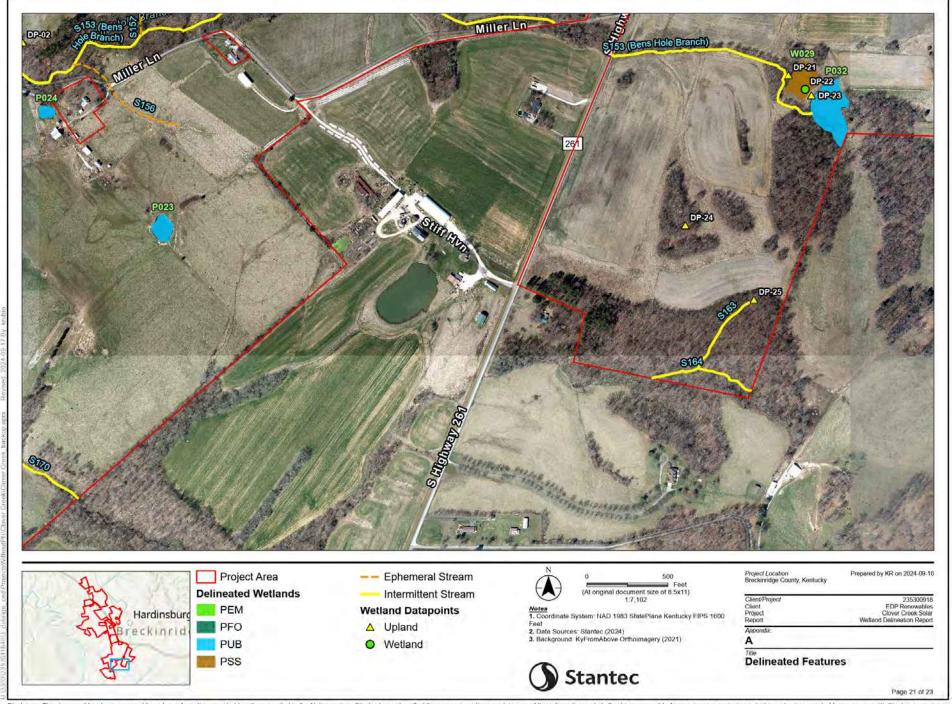


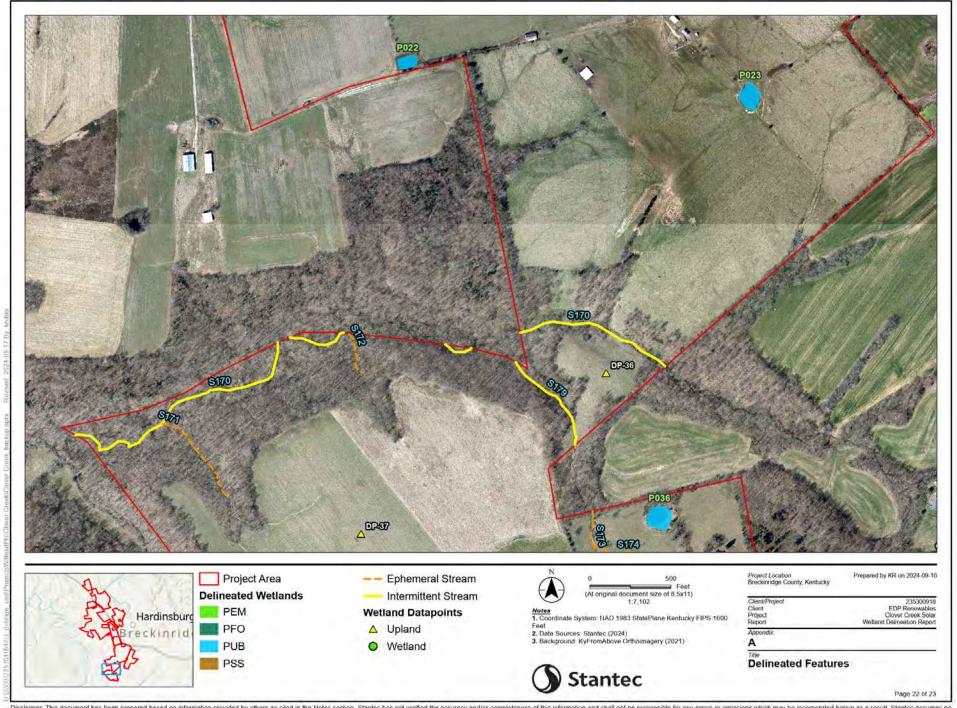


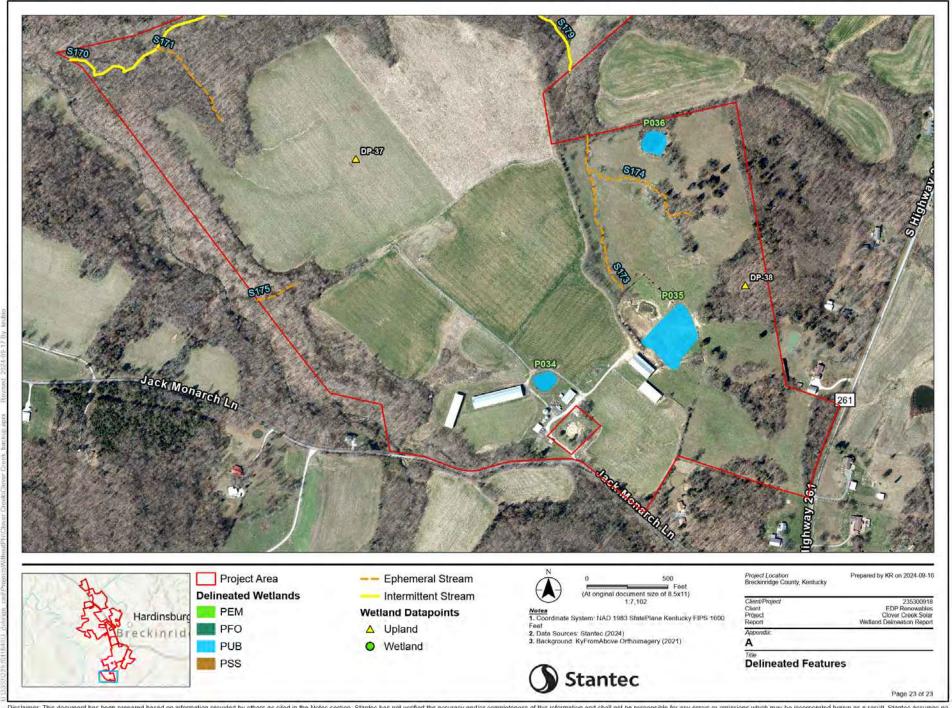












## **APPENDIX B**

# **Wetland Determination Datasheets**

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:					
	al relief (concave, convex, none): Linear Slope %: 20					
· · · · · · · · · · · · · · · · · · ·	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'	<u> </u>					
Are Vegetation , Soil , or Hydrology significantly di						
Are Vegetation , Soil , or Hydrology naturally problem	lematic? (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 X	Is the Sampled Area					
Hydric Soil Present?  Yes  No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: Dry season.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)					
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)					
High Water Table (A2) True Aquatic Plants (B14)						
Saturation (A3) Hydrogen Sulfide Odor (C						
Water Marks (B1) Oxidized Rhizospheres or						
Sediment Deposits (B2) Presence of Reduced Iron	n (C4) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Recent Iron Reduction in	Tilled Soils (C6) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)  —— Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in Remarks	s) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present Yes No X Depth (inch						
Water Table Present Yes No X Depth (inch	·					
Saturation Present Yes No X Depth (inch	nes):   Wetland Hydrology Present? Yes No_X_					
(includes capillary fringe)	provious inspections) if availables					
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), ii avaliable.					
Remarks:						
I						

Sampling Point: DP-01

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Ulmus rubra	30	Yes	FAC	Bollinance rest worksheet.
Liriodendron tulipifera		Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3. Acer rubrum			FAC	That Are OBL, FACW, or FAC:(A)
4. Cercis canadensis				Total Number of Dominant
5			17.00	Species Across All Strata: 3 (B)
6.				Percent of Dominant Species
7				That Are OBL, FACW, or FAC:33 (A/B)
				Prevalence Index worksheet:
45.6		_ = Total Cover	•	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1. Acer rubrum	10	No	FAC	FACW species0 x 2 =0
2. Ulmus rubra	10	No	FAC	FAC species60 x 3 =180
Liriodendron tulipifera	5	No	FACU	FACU species 120 x 4 = 480
4				UPL species 0 x 5 = 0
5				Column Totals: 180 (A) 660 (B)
6				Prevalence Index = B/A = 3.67
<i>7.</i>		-		Hydrophytic Vegetation Indicators:
	25	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				<del></del>
1. Sassafras albidum	50	Yes	FACU	2 - Dominance Test is >50%
2. Ageratina altissima	20	No	FACU	3 - Prevalence Index is ≤3.0¹
3. Liriodendron tulipifera	5	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. Polystichum acrostichoides	5	No	FACU	
5		-		Problematic Hydrophytic Vegetation¹ (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				Continuate with Weady plants less than 2 in DDLI
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	80	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft )		- Total Gover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				
2.				Woody vines – All woody vines greater than 3.28 ft in height.
3.				neight.
4.				Hydrophytic
	0			Vegetation
		= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Depth   Matrix   Redox Features	Profile Description: (Describe	to the dept				tor or co	onfirm the absence of ind	licators.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	Depth Matrix (inches) Color (moist)	0/_				1002	Texture	Romarks
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1)	(Inches) Color (Indist)	70	Color (moist)	70	Туре	LUC		Remarks
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listosol (A2) Histic Epipedon (A2) Loamy Gleyed Matrix (F2) Peidmont Floodplain Soils (F19) (MLRA 147) Peidmont Floodplain in Remarks)  Loamy Gleyed Matrix (F3) Peidmont Floodplain in Remarks)  Stratified Layers (A5) Pepleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Park Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148) Pelodmont Floodplain Soils (F19) (MLRA 147, 148) Peledmont Floodplain Soils (F19) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 147) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (ML	0-16 10YR 3/4	100					Sandy Loam	
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Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X								
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Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X	<del></del>							
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Umbric Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Polyth (inches): Hydric Soil Present?  Yes No X								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listosol (A2) Histic Epipedon (A2) Loamy Gleyed Matrix (F2) Peidmont Floodplain Soils (F19) (MLRA 147) Peidmont Floodplain in Remarks)  Loamy Gleyed Matrix (F3) Peidmont Floodplain in Remarks)  Stratified Layers (A5) Pepleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Park Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148) Pelodmont Floodplain Soils (F19) (MLRA 147, 148) Peledmont Floodplain Soils (F19) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 147) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (MLRA 148) Piedmont Floodplain Soils (F19) (ML								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Umbric Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Polyth (inches): Hydric Soil Present?  Yes No X								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Library Gleyed Matrix (F2) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Histoc Soil Indicators for Problematic Hydric Soils <sup>3</sup> :  Indicators for Problematic Hydric Soils <sup>3</sup> :  Indicators for Problematic Hydric Soils <sup>3</sup> :  Layer Grophologian Soils (A10) Coast Prairie Redox (A10) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136)  Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) Other (Explain in Remarks)  Other (Explain in Remar								
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Library Gleyed Matrix (F2) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Histoc Soil Indicators for Problematic Hydric Soils <sup>3</sup> :  Indicators for Problematic Hydric Soils <sup>3</sup> :  Indicators for Problematic Hydric Soils <sup>3</sup> :  Layer Grophologian Soils (A10) Coast Prairie Redox (A10) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136)  Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) Other (Explain in Remarks)  Other (Explain in Remar								
Histosol (A1)	<sup>1</sup> Type: C=Concentration, D=De	pletion, RM:	=Reduced Matrix, N	√S=Mas	ked San	d Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Histic Epipedon (A2)	Hydric Soil Indicators:						Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)	Histosol (A1)	-	Polyvalue Below	/ Surface	(S8) (MLR	A 147, 148)	2 cm Muck (	A10) <b>(MLRA 147)</b>
	Histic Epipedon (A2)	-	Thin Dark Surfa	ce (S9) (N	/ILRA 147, 1	148)	Coast Prairie	e Redox (A16) (MLRA 147, 148)
Stratified Layers (A5)	Black Histic (A3)	_	Loamy Gleyed N	Matrix (F2	)		Piedmont Flo	oodplain Soils (F19) (MLRA 146, 147)
2 cm Muck (A10) (LRR N)	Hydrogen Sulfide (A4)	_	Depleted Matrix	(F3)			Very Shallow	Dark Surface (TF12)
Depleted Below Dark Surface (A11) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems	Stratified Layers (A5)	_	Redox Dark Sur	face (F6)			Other (Expla	in in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Which 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Iron-Manganese Masses (F12) (LRR N, MLRA 136) Which 136, 122) MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematical formula for the company of the compa	2 cm Muck (A10) (LRR N)	_	Depleted Dark S	Surface (F	7)			
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemate the strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes NoX	Depleted Below Dark Surface (	A11) _	Redox Depressi	ons (F8)				
MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems	Thick Dark Surface (A12)	_	Iron-Manganese	Masses	(F12) (LRI	R N, MLRA	136)	
MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems	Sandy Mucky Mineral (S1) (LRF	R N, _	Umbric Surface	(F13) (ML	RA 136, 12	2)		
Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes  No  X		_						
Stripped Matrix (S6)  Dark Surface (S7)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No _X	Sandy Gleyed Matrix (S4)	_	Red Parent Mate	erial (F21	) (MLRA 12	27, 147)		
Dark Surface (S7)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problema  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No _X	Sandy Redox (S5)			•				
Restrictive Layer (if observed):           Type:	Stripped Matrix (S6)							
Type:	Dark Surface (S7)	<sup>3</sup> ln	dicators of hydroph	nytic veg	etation a	nd wetla	nd hydrology must be pres	sent, unless disturbed or problemati
Depth (inches): No X	Restrictive Layer (if observed	):						
	Туре:							
Remarks:	Depth (inches):						Hydric Soil Present?	Yes No_X
	Remarks:							

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:					
	al relief (concave, convex, none): Convex Slope %: 3					
<u> </u>	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?	<del></del>					
Are Vegetation , Soil , or Hydrology significantly dis						
Are Vegetation , Soil , or Hydrology naturally proble	ematic? (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 X	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: Dry season.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)					
High Water Table (A2) True Aquatic Plants (B14)	Drainage Fatterns (B10) Moss Trim Lines (B16)					
Saturation (A3) Hydrogen Sulfide Odor (C1						
Water Marks (B1) Oxidized Rhizospheres on	Living Poots (C3)					
Sediment Deposits (B2)  Presence of Reduced Iron	Claylish Bullows (Co)					
Drift Deposits (B3) Recent Iron Reduction in T						
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in Remarks						
Inundation Visible on Aerial Imagery (B7)	Shahow Aquitato (ES) Microtopographic Relief (D4)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:	TAO Neutral rest(55)					
Surface Water Present Yes No _X Depth (inche	es):					
Water Table Present Yes No X Depth (inche						
Saturation Present Yes No X Depth (inche						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:					
Remarks:						

<b>VEGETATION</b> – Use scientific names of pla	ants.			Sampling Point: DP-02
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,,
4.				Total Number of Dominant
5.				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				
				OBL species x 1 =
1 2.				FACW species x 2 =
				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5		<del></del>		Column Totals: (A) (B)
6				
7				Prevalence Index = B/A =
	0			Hydrophytic Vegetation Indicators:
5 ft)		= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Glycine max	75	Yes	UPL	3 - Prevalence Index is ≤3.0¹
2				
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4		<u> </u>		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
9.				Definitions of Vegetation offata.
10				Tree – Woody plants 3 in. (7.6 cm) or more in
		·		diameter at breast height (DBH), regardless of height.
11		<del></del>		Sapling/shrub – Woody plants less than 3 in. DBH
12		<del></del> -		and greater than or equal to 3.28 ft (1 m) tall.
	75	= Total Cover		Hart All barbarassa (a sa susa da alasta sa sa sallasa
Woody Vine Stratum (Plot size: 30 ft)		- 10tal 0070l		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				or size, and woody plants loss than o.zo it tail.
				Woody vines – All woody vines greater than 3.28 ft in
2.		<del></del> -		height.
3				
4		<del></del>		Hydrophytic Vegetation
	0	= Total Cover		Present? Yes No X
		= Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Depth   Matrix   Redox Features   Color (moist)   % Color (moist)   % Type   Loc²   Texture   Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  ### Polyvalue Below Surface (S8) (MLRA 147, 148)  ### Histosol (A1)  ### Histosol (A2)  ### Black Histic (A3)  ### Black Histic (A3)  ### Surface (S9) (MLRA 147, 148)  ### Depleted Bark Surface (F6)  ### Stratified Layers (A5)  ### Coast Prairie Redox (A16) (MLRA 147, 149)  ### Piedmont Floodplain Soils (F19) (MLRA 147)  ### Stratified Layers (A5)  ### 2 cm Muck (A10) (MLRA 147, 149)  ### Coast Prairie Redox (A16) (MLRA 147, 149)  ### Piedmont Floodplain Soils (F19) (MLRA 147)  ### Other (Explain in Remarks)  ### Other (Explain in Remarks)  ### Thick Dark Surface (A12)  ### Iron-Manganese Masses (F12) (MLRA 136, 122)  ### MLRA 147, 148)  ### Piedmont Floodplain Soils (F19) (MLRA 136, 122)  ### MLRA 147, 148)  ### Piedmont Floodplain Soils (F19) (MLRA 136, 122)  ### MLRA 147, 148)  ### Piedmont Floodplain Soils (F19) (MLRA 148)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  ### Polyvalue Below Surface (S8) (MLRA 147, 148)  ### Histosol (A1)  ### Histosol (A2)  ### Black Histic (A3)  ### Black Histic (A3)  ### Surface (S9) (MLRA 147, 148)  ### Depleted Bark Surface (F6)  ### Stratified Layers (A5)  ### Coast Prairie Redox (A16) (MLRA 147, 149)  ### Piedmont Floodplain Soils (F19) (MLRA 147)  ### Stratified Layers (A5)  ### 2 cm Muck (A10) (MLRA 147, 149)  ### Coast Prairie Redox (A16) (MLRA 147, 149)  ### Piedmont Floodplain Soils (F19) (MLRA 147)  ### Other (Explain in Remarks)  ### Other (Explain in Remarks)  ### Thick Dark Surface (A12)  ### Iron-Manganese Masses (F12) (MLRA 136, 122)  ### MLRA 147, 148)  ### Piedmont Floodplain Soils (F19) (MLRA 136, 122)  ### MLRA 147, 148)  ### Piedmont Floodplain Soils (F19) (MLRA 136, 122)  ### MLRA 147, 148)  ### Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Indicators for Problematic Hydric Soils <sup>3</sup> :  1 depleted Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  2 cm Muck (A10) (MLRA 147, 148)  Depleted Dark Surface (F6)  Other (Explain in Remarks)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Z cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Black Histic (A3) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4) Stratified Layers (A5) Z cm Muck (A10) (LRR N) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  Z cm Muck (A10) (LRR N) Depleted Dark Surface (F7)  X Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Thin Dark Surface (F9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A11)  X Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Black Histic (A3) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12)  Stratified Layers (A5) Redox Dark Surface (F6) Other (Explain in Remarks)  Zem Muck (A10) (LRR N) Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11) Xedox Depressions (F8)  Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)
Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N,  MLRA 147, 148)  Depleted Matrix (F3)  Nedox Dark Surface (F6)  Depleted Dark Surface (F7)  X Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)
Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Dark Surface (F7)  X Redox Depressions (F8)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148)  Redox Dark Surface (F7)  X Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)
2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7) Depleted Below Dark Surface (A11) X Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122) MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Thick Dark Surface (A12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N,  Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)
Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)
MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)
Sandy Gleved Matrix (S4)  Red Parent Material (F21) (MLPA 427, 447)
Sandy Redox (S5)
Stripped Matrix (S6)
Dark Surface (S7)   3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed):
Type:
Depth (inches):
Remarks:

Project/Site: Clover Creek		City/County: Breckinridge	Sampling Date: 07/16/2024				
Applicant/Owner: EDP Renewables	_	State: K	ent Sampling Point: DP-03				
Investigator(s): K. Rubio, M. Angel		Section, Township, Range:					
Landform (hillside, terrace, etc.):	Local re	elief (concave, convex, none): Conca	ave Slope %: 3				
Subregion (LRR or MLRA): LRR N MLRA		Long: -86.480971	Datum: WGS84				
Soil Map Unit Name: SaB2	120/1 Lat. 07:1740747	NWI classification					
•	a tunical for this time of year?						
Are climatic / hydrologic conditions on the site		<del></del>	no, explain in Remarks.)				
Are Vegetation , Soil , or Hyd	·						
Are Vegetation, Soil, or Hyd	rology naturally problem	atic? (If needed, explain any answe	is in Remarks.)				
SUMMARY OF FINDINGS – Attach s	ite map showing sampling po	int locations, transects, important feat	ures, etc.				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes X No Yes X No	within a Wetland? Yes_	X No				
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID:					
Remarks: Dry season.							
itematics. Dry season.							
HYDROLOGY							
Wetland Hydrology Indicators:			(minimum of two required)				
Primary Indicators (minimum of one is requi	red; check all that apply)	Surface Soil Cra	cks (B6) ted Concave Surface (B8)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely vegeta	· ·				
High Water Table (A2)	True Aquatic Plants (B14)	Brainage Fatters					
Saturation (A3)	Hydrogen Sulfide Odor (C1)						
Water Marks (B1)	Oxidized Rhizospheres on Livi						
Sediment Deposits (B2)	Presence of Reduced Iron (C4						
Drift Deposits (B3)	Recent Iron Reduction in Tilled	illed Soils (C6) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Pos	ition (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	i (D3)				
Inundation Visible on Aerial Imagery (B7)		Microtopographi	c Relief (D4)				
Water-Stained Leaves (B9)		X_FAC-Neutral Tes	st (D5)				
Field Observations:							
Surface Water Present Yes		:					
Water Table Present Yes							
Saturation Present Yes	No X Depth (inches):	: Wetland Hydrology Prese	ent? Yes <u>X</u> No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, prev	vious inspections), if available:					
Remarks:							

<b>VEGETATION</b> – Use scientific names of pl	ants.			Sampling Point: DP-03
<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:1 (A)
3				Total Niverbox of Descinant
4		<u> </u>		Total Number of Dominant Species Across All Strata: 1 (B)
5				Specifica / torono / till ottatia.
6				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
	0	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 60 x 1 = 60
1				FACW species 0 x 2 = 0
2				FAC species 30 x 3 = 90
3				
4				FACU species 0 x 4 = 0
5.				UPL species0 x 5 =0
6.				Column Totals: 90 (A) 150 (B)
7.				Prevalence Index = B/A = 1.67
				Hydrophytic Vegetation Indicators:
		= Total Cover		X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				<del>                                   </del>
1. Carex vulpinoidea	60	Yes	OBL	X 2 - Dominance Test is >50%
Microstegium vimineum	30	No	FAC	X 3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup>
4				(Provide supporting data in Remarks or on a separate sheet)
-				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				Continued have by Manche plants land them 2 in DDI.
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	90			and greater than or equal to 0.20 it (1 m) tail.
20 ft		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1		<del></del> -		Woody vines – All woody vines greater than 3.28 ft in
2		<del></del>		height.
3				
4				Hydrophytic
	0			Vegetation Present? Yes X No
		= Total Cover		Present? Yes X No No No
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
				!

	ription: (Describe to the	ne depth need				or or co	onfirm the absence of	indicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	% Cold	or (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/4	90 10YR	4/1	10	С	М	Clay Loam	
								_
								_
								_
¹Type: C=C	oncentration, D=Depletion	on, RM=Redu	ced Matrix, N	/IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.
Hydric Soil	ndicators:						Indicators for	or Problematic Hydric Soils³:
Histosol (	(A1)	Po	olyvalue Below	Surface	(S8) (MLR	A 147, 148	) 2 cm Mu	ck (A10) (MLRA 147)
Histic Epi	pedon (A2)	Th	nin Dark Surfac	ce (S9) (N	ILRA 147, 1	48)	Coast Pr	airie Redox (A16) (MLRA 147, 148)
Black His	tic (A3)	Lo	amy Gleyed N	/latrix (F2	)		Piedmon	t Floodplain Soils (F19) (MLRA 146, 147)
Hydroger	n Sulfide (A4)	De	epleted Matrix	(F3)			Very Sha	allow Dark Surface (TF12)
Stratified	Layers (A5)	R	edox Dark Sur	face (F6)			Other (Ex	xplain in Remarks)
2 cm Mud	ck (A10) (LRR N)	De	epleted Dark S	Surface (F	7)			
Depleted	Below Dark Surface (A11)	_X_ R	edox Depressi	ons (F8)				
Thick Da	rk Surface (A12)	Iro	on-Manganese	Masses	(F12) (LRF	R N, MLRA	136)	
	ucky Mineral (S1) (LRR N,	Uı	mbric Surface	(F13) <b>(ML</b>	RA 136, 12	2)		
MLRA 147		Pi	edmont Flood	plain Soils	s (F19) <b>(M</b> I	RA 148)		
	eyed Matrix (S4)	R	ed Parent Mate	erial (F21	) (MLRA 12	7, 147)		
Sandy Re	` '							
	Matrix (S6)	3Indicato	rs of hydroph	nvtic vea	etation a	nd wetla	nd hvdrology must be p	present, unless disturbed or problematic.
Dark Sur	_ace (S7) _ayer (if observed):		7 - 7	7				, , , , , , , , , , , , , , , , , , , ,
	Layer (ii observea).							
	nches):		_				Hydric Soil Presei	nt? Yes <sup>X</sup> No
			_				nyunc 3011 Fresei	nt? Yes X No
Remarks:								

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:					
	Local relief (concave, convex, none): Convex Slope %: 3					
Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.749885						
Soil Map Unit Name: SaB2	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of y	<del></del>					
Are Vegetation , Soil , or Hydrology significant						
Are Vegetation , Soil , or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes No X					
Wetland Hydrology Present?  Yes No X	If yes, optional Wetland Site ID:					
Remarks: Dry season.						
HYDROLOGY						
	Secondary Indicators (minimum of two required)					
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
	Sparsely vegetated Concave Surface (B8)					
Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) True Aquatic Plants (	Dialitage Fatterns (B10)					
Saturation (A3)  —— Hydrogen Sulfide Od	Moss Trim Lines (B16)					
Water Marks (B1) — Oxidized Rhizospher	Living Poots (C3)					
Sediment Deposits (B2)  Presence of Reduced	Claylish Bullows (Co)					
Drift Deposits (B3) Recent Iron Reduction	Saturation visible on Aeria imagery (69)					
Algal Mat or Crust (B4) Thin Muck Surface (C	Otalica of diressed Flames (DT)					
Iron Deposits (B5) Other (Explain in Rer	Geomorphic Fosition (D2)					
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present Yes No X Depth (i	inches):					
	inches):					
	inches): Wetland Hydrology Present? Yes No_X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:					
Remarks:						

Sampling Point: DP-04

Tree Stratum (Plot size: 30 ft )	Absolute <u>% Cover</u>	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				Total Nevel on of Dans's and
4				Total Number of Dominant Species Across All Strata: 1 (B)
5				
6				Percent of Dominant Species
7				That Are OBL, FACW, or FAC: 0 (A/B)
	0			Prevalence Index worksheet:  Total % Cover of:  Multiply by:
Ocalia (Obash Otariosa (Diataisa 15 ft)		= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3	·			FACU species 0 x 4 = 0
4				UPL species 80 x 5 = 400
5				Column Totals: 80 (A) 400 (B)
6.				Prevalence Index = B/A = 5
7				Hydrophytic Vegetation Indicators:
	0	= Total Cover		
Herb Stratum (Plot size: 5 ft)				1 - Rapid Test for Hydrophytic Vegetation
1. Glycine max	80	Yes	UPL	2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Provide Supporting data in Kernarks or on a separate sheet)
5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.				
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
9.				
10.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				diameter at breast fieight (DBH), regardless of fieight.
12.				Sapling/shrub – Woody plants less than 3 in. DBH
	80			and greater than or equal to 3.28 ft (1 m) tall.
	=	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3	-			
4	-			Hydrophytic Vegetation
	0 _	= Total Cover		Present? Yes No X
		- Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet )			
Remarks. (include prioto numbers here or on a separ	ale Sileel.)			

Profile Descr	iption: (Describe to the	depth neede	ed to docun	nent the	e indicat	tor or co	onfirm the absence of i	ndicators.)	
Depth	Matrix		Redox	Feature	es				
(inches)	Color (moist) %	6 Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10YR 3/4 9	5 10YR	4/1	5			Clay Loam		
		_							
_									
¹Tvpe: C=Co	ncentration, D=Depletion	. RM=Reduce	ed Matrix. M	 S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.	
Hydric Soil Ir			, , , , , ,					r Problematic Hydric Soils³:	
Histosol (A		Pol	yvalue Below	Surface	(S8) (MLD	A 147 149		k (A10) (MLRA 147)	
Histic Epip	·		n Dark Surfac					irie Redox (A16) (MLRA 147, 148)	
Black Histi			my Gleyed M			140)		Floodplain Soils (F19) (MLRA 146, 1	147)
	Sulfide (A4)	·	oleted Matrix (				<del></del>	low Dark Surface (TF12)	,
	ayers (A5)		dox Dark Surfa	-				plain in Remarks)	
	(A10) (LRR N)	·	oleted Dark Su		7)		0 (2./.	piani in recinanto)	
	Below Dark Surface (A11)		dox Depressio	-	,				
=	Surface (A12)		-Manganese		(F12) (LRF	R N, MLRA	136)		
	cky Mineral (S1) (LRR N,		bric Surface (I						
MLRA 147,			dmont Floodp						
Sandy Gle	yed Matrix (S4)		Parent Mate						
Sandy Red	dox (S5)								
Stripped M	fatrix (S6)	21 11 .							
Dark Surfa		Indicators	of hydrophy	tic vege	etation a	nd wetla	nd hydrology must be pi	resent, unless disturbed or pro	blematic
	ayer (if observed):								
Type: _			•					.,	
Depth (inc	ches):		<b>-</b>				Hydric Soil Presen	t?       Yes <u> </u>	
Remarks:									

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 Lo	ical 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	
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 X	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes No_X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Dry season	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)
High Water Table (A2) True Aquatic Plants (B1	<u></u>
Saturation (A3) Hydrogen Sulfide Odor	(C1) Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospheres	on Living Roots (C3) Crayfish Burrows (C8)
Sediment Deposits (B2) Presence of Reduced In	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Recent Iron Reduction in	n Tilled Soils (C6) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remai	rks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present Yes No X Depth (inc	·
Water Table Present Yes No X Depth (including Saturation Present Y	·
Saturation Present Yes No X Depth (includes capillary fringe)	ches):   Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Describe Necorded Data (Stream gauge, monitoring well, acrial priores	, providus inspections), ii available.
Remarks:	
Remarks.	

<b>VEGETATION</b> – Use scientific names of pla	Sampling Point: DP-05			
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3.				(',
				Total Number of Dominant
				Species Across All Strata: 0 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total 0/ Cover of
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = Total Cover		ividitiply by.
				OBL species 0 x 1 = 0
1		<del></del> -		FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4		<u> </u>		
5		- <u></u>		
6				Column Totals: 75 (A) 375 (B)
7				Prevalence Index = B/A = 5
	_			Hydrophytic Vegetation Indicators:
		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				<del>-</del>
1. Glycine max	75	No	UPL	2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup>
				(Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH
	75			and greater than or equal to 3.28 ft (1 m) tall.
		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3.				
4.				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet )			
The marrier (morate priorite marrier or or or or or or or or	a.o ooo,			

Profile Desc	ription: (Describe to	the depth ne	eeded to docu	ment th	e indicat	or or co	onfirm the absence of in	ndicators.)
Depth	epth Matrix Redox Features							
(inches)	Color (moist)	% C	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 3/4						Clay Loam	
								_
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=Re	duced Matrix, N	иS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Below	/ Surface	(S8) (MLR	A 147, 148)	2 cm Muck	(A10) (MLRA 147)
Histic Ep	ipedon (A2)		Thin Dark Surfa	ce (S9) (N	ILRA 147, 1	48)	Coast Prair	rie Redox (A16) (MLRA 147, 148)
Black His	stic (A3)		Loamy Gleyed N	Matrix (F2	)		Piedmont F	Floodplain Soils (F19) (MLRA 146, 147)
Hydroge	n Sulfide (A4)		Depleted Matrix	(F3)			Very Shallo	ow Dark Surface (TF12)
Stratified	Layers (A5)		Redox Dark Sur	face (F6)			Other (Exp	lain in Remarks)
2 cm Mu	ck (A10) (LRR N)		Depleted Dark S	Surface (F	7)			
Depleted	Below Dark Surface (A	I1) <u>X</u>	Redox Depressi	ons (F8)				
Thick Da	rk Surface (A12)		Iron-Manganese	Masses	(F12) (LRF	R N, MLRA	136)	
Sandy M	ucky Mineral (S1) (LRR N	ı, <u> </u>	Umbric Surface	(F13) <b>(ML</b>	.RA 136, 12	2)		
MLRA 147	<sup>7</sup> , 148)		Piedmont Flood	plain Soil:	s (F19) <b>(M</b> I	RA 148)		
	leyed Matrix (S4)		Red Parent Mat	erial (F21	) (MLRA 12	7, 147)		
	edox (S5)							
	Matrix (S6)	3Indica	itare of hydronic	ovtic ved	etation a	nd wetla	nd hydrology must be pre	esent, unless disturbed or problematic.
Dark Sur		muloa	itors or riyuropi	iyiic veg	Clation a	ilu wella	The flydrology friest be pre	esent, unless disturbed of problematic.
Type:	Layer (if observed):							
	L V						Undela Call Bases of	o Yas Y Na
	nches):						Hydric Soil Present	? Yes X No No
Remarks:								

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:					
	cal relief (concave, convex, none): Concave Slope %: 5					
	Long: -86.476041 Datum: WGS84					
	NWI classification:					
Soil Map Unit Name: SaB2						
Are climatic / hydrologic conditions on the site typical for this time of year						
Are Vegetation, Soil, or Hydrology significantly d	(If any deal countries are consequent in December )					
Are Vegetation, Soil, or Hydrology naturally prob	olematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling	g point locations, transects, important features, etc.					
Lhidranhi tia Vagatatian Pragant?	In the Compiled Area					
Hydrophytic Vegetation Present? Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No					
Wetland Hydrology Present?  Yes X No	If yes, optional Wetland Site ID:					
Remarks: Dry season.	ii yoo, opiiona woxana exe ib.					
Remarks. Diy season.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)					
High Water Table (A2) True Aquatic Plants (B14	Drainage Fatterns (D10) Moss Trim Lines (B16)					
X Saturation (A3) X Hydrogen Sulfide Odor (C	<u> </u>					
Water Marks (B1) Oxidized Rhizospheres o	Dry ocason water rable (02)					
Sediment Deposits (B2) Presence of Reduced Iro						
Drift Deposits (B3) Recent Iron Reduction in						
Algal Mat or Crust (B4) X Thin Muck Surface (C7)	X Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in Remark	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present Yes X No Depth (inch	hes): 4					
Water Table Present Yes X No Depth (inch	, <del></del>					
Saturation Present Yes X No Depth (inch	hes):0					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:					
Remarks:						

Sampling Point: DP-06

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3 4 5.				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
		·		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 80 x 1 = 80
1				FACW species 0 x 2 =0
2				FAC species 0 x 3 = 0
3				
4				
5				UPL species 0 x 5 = 0
6				Column Totals: 90 (A) 120 (B)
7				Prevalence Index = B/A =1.33
	_			Hydrophytic Vegetation Indicators:
_,	=	= Total Cover		X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				X 2 - Dominance Test is >50%
1. Leersia oryzoides	40	Yes	OBL	X 3 - Prevalence Index is ≤3.0¹
2. Ludwigia peploides	40	Yes	OBL	
Vernonia angustifolia	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				
5		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9.				
10.				Tree – Woody plants 3 in. (7.6 cm) or more in
11.			_	diameter at breast height (DBH), regardless of height.
12.		·		Sapling/shrub - Woody plants less than 3 in. DBH
12.			_	and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft)	90=	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1		·		Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0	= Total Cover		Vegetation
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
Tromanic. (morado prioto namboro noro er em a copan	ato 01100t.)			

	iption: (Describe to the	e depth neede				tor or co	onfirm the ab	sence of indi	cators.)	
Depth (inches)	Matrix Color (moist)	% Color	(moist)	x Feature %	es Type¹	Loc <sup>2</sup>	Textur	· <b>o</b>	Remark	(S
(IIICIIES)	Color (moist)	76 COIOI	(ITIOISI)	70	Турс	LUC	Textu		Remain	νο
0-16	10YR 3/1 1	00					Muck			
<sup>1</sup> Type: C=Co	ncentration, D=Depletion	n, RM=Reduce	ed Matrix, N	/S=Mas	ked Sand	d Grains.	<sup>2</sup> Locati	on: PL=Pore L	ining, M=Matrix.	
Hydric Soil Ir	ndicators:						Inc	licators for Pi	roblematic Hydric	c Soils³:
Histosol (A	<b>N1</b> )	Poly	value Below	Surface	(S8) (MLR	A 147, 148)		2 cm Muck (A	10) <b>(MLRA 147)</b>	
Histic Epip	edon (A2)	Thir	n Dark Surfac	ce (S9) (M	ILRA 147, 1	148)		Coast Prairie	Redox (A16) (MLRA 1	47, 148)
Black Histi	ic (A3)	Loa	my Gleyed M	1atrix (F2)	)			Piedmont Floo	odplain Soils (F19) (N	ILRA 146, 147)
X Hydrogen	Sulfide (A4)	Dep	leted Matrix	(F3)				Very Shallow	Dark Surface (TF12)	
Stratified L	ayers (A5)	Red	lox Dark Surf	ace (F6)				Other (Explain	in Remarks)	
2 cm Mucl	(A10) (LRR N)	Dep	leted Dark S	urface (F	7)					
Depleted E	Below Dark Surface (A11)	Red	lox Depression	ons (F8)						
Thick Dark	Surface (A12)	Iron	-Manganese	Masses	(F12) (LRF	R N, MLRA	136)			
Sandy Mu	cky Mineral (S1) (LRR N,	Um	bric Surface	(F13) <b>(ML</b>	RA 136, 12	2)				
MLRA 147,			dmont Floodp							
Sandy Gle	yed Matrix (S4)		Parent Mate							
Sandy Red	dox (S5)									
Stripped M	fatrix (S6)									
Dark Surfa	ace (S7)	<sup>3</sup> Indicators	of hydroph	ytic veg	etation a	nd wetla	nd hydrology	must be prese	ent, unless disturbe	ed or problemati
Restrictive L	ayer (if observed):									
Type:			•							
Depth (in	ches):						Hydric S	oil Present?	YesX	No
Remarks:										

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:					
	Local relief (concave, convex, none): Linear Slope %: 6					
Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.753606	· ·					
	NWI classification:					
Soil Map Unit Name: RoC3						
Are climatic / hydrologic conditions on the site typical for this time of y	<del></del>					
Are Vegetation , Soil , or Hydrology significant						
Are Vegetation , Soil , or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing samp	oling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present?  Yes  No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: Dry season.						
L HYDROLOGY						
	Secondary Indicators (minimum of two required)					
Wetland Hydrology Indicators:	Surface Soil Cracks (B6)					
Primary Indicators (minimum of one is required; check all that apply	Sparsely Vegetated Concave Surface (B8)					
Surface Water (A1) Aquatic Fauna (B13) Ligh Water Table (A2)	Drainage Patterns (B10)					
High Water Table (A2)  True Aquatic Plants (	Noss min Lines (BTO)					
Saturation (A3) Hydrogen Sulfide Od	biy-season water rable (C2)					
Water Marks (B1) Oxidized Rhizospher Sediment Deposits (B2) Presence of Reduce-	res on Living Roots (C3)  Crayfish Burrows (C8)					
	Saturation visible on Aerial Imagery (C5)					
Algal Mat or Crust (B4) Thin Muck Surface (6	on in Tilled Soils (C6) Stunted or Stressed Plants (D1)					
Iron Deposits (B5)  Other (Explain in Ref	marks)					
Inundation Visible on Aerial Imagery (B7)	Onanow Adultara (B3)					
Water-Stained Leaves (B9)	Microtopographic Relief (D4)					
<del></del>	FAC-Neutral Test (D5)					
Field Observations:	(Cashaa)					
	(inches):					
	(inches):					
	(inches):   Wetland Hydrology Present? Yes No_X					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:					
Remarks:						

<b>VEGETATION</b> – Use scientific names of pl	Sampling Point: DP-07			
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,,
4.				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:0 (A/B)
7		<del></del>		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10tai 00vci		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species0 x 3 =0
3		<del></del> -		FACU species 60 x 4 = 240
4				UPL species 0 x 5 = 0
5		<del></del> -		· —
6				Column Totals: 60 (A) 240 (B)
7				Prevalence Index = B/A =4
	0			Hydrophytic Vegetation Indicators:
_ ,,		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Festuca arundinacea	30	Yes	FACU	
Eupatorium capillifolium	15	No	FACU	3 - Prevalence Index is ≤3.0¹
3. Vernonia angustifolia	15	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Frovide supporting data in Nemarks of on a separate sheet)
5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11	-			On the state of th
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	60			and greater than or equal to 0.20 it (1 m) tall.
20.4		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0			Vegetation No. X
	0	= Total Cover		Present? Yes NoX
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	cription: (Describe to	the dep	th needed to docu	ment th	e indica	tor or co	onfirm the absence of ir	ndicators.)	
Depth	pth Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-16	10YR 3/4	100					Clay Loam		
	1011 3/4	100					Clay Loam		
			_						
¹Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix, N	√S=Mas	ked San	d Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for	Problematic Hydric	Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Below	/ Surface	(S8) (MLR	A 147, 148)	2 cm Muck	(A10) (MLRA 147)	
	pipedon (A2)		Thin Dark Surfa					rie Redox (A16) (MLRA 1	(47 148)
Black His			Loamy Gleyed N			140)		Floodplain Soils (F19) (N	
	n Sulfide (A4)				-)				
			Depleted Matrix					ow Dark Surface (TF12)	
	Layers (A5)		Redox Dark Sur				Other (Exp	lain in Remarks)	
	ck (A10) (LRR N)		Depleted Dark S		-7)				
	Below Dark Surface (A	l1)	Redox Depressi						
	rk Surface (A12)		Iron-Manganese				136)		
Sandy M	lucky Mineral (S1) (LRR N	I,	Umbric Surface	(F13) <b>(M</b> L	_RA 136, 12	2)			
MLRA 14			Piedmont Flood	plain Soil	s (F19) <b>(M</b> I	LRA 148)			
	leyed Matrix (S4)		Red Parent Mat	erial (F21	) (MLRA 12	27, 147)			
Sandy R	edox (S5)								
Stripped	Matrix (S6)	31							
Dark Sur			ndicators of hydropr	nytic veg	getation a	nd wetla	nd hydrology must be pro	esent, unless disturb	ed or problematic.
Restrictive	Layer (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Present	? Yes	No_X_
Remarks:									

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:					
	Il relief (concave, convex, none): Linear Slope %: 7					
	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?	<del></del>					
Are Vegetation , Soil , or Hydrology significantly dis						
Are Vegetation , Soil , or Hydrology naturally proble	ematic? (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 X	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes No_X_					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: Dry season.						
,						
HYDROLOGY						
	Secondary Indicators (minimum of two required)					
Wetland Hydrology Indicators:	Surface Soil Cracks (B6)					
Primary Indicators (minimum of one is required; check all that apply)	Sparsely Vegetated Concave Surface (B8)					
Surface Water (A1) — Aquatic Fauna (B13)	Drainage Patterns (B10)					
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)					
Saturation (A3) Hydrogen Sulfide Odor (C1	Dry-Season Water Table (C2)					
Water Marks (B1) Oxidized Rhizospheres on	Clayish Bullows (Co)					
Sediment Deposits (B2)  Presence of Reduced Iron	Caturation Visible on Aerial Imagery (C3)					
Drift Deposits (B3) Recent Iron Reduction in T	illed Soils (C6) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5) — Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present Yes No X Depth (inche	es):					
Water Table Present Yes No X Depth (inches	es):					
Saturation Present Yes No X Depth (inche	es): Wetland Hydrology Present? Yes No_X_					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:					
Remarks:						

<b>VEGETATION</b> – Use scientific names of pla	Sampling Point: DP-08			
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1		<u> </u>		Number of Dominant Species
2		<u> </u>		That Are OBL, FACW, or FAC: 1 (A)
3				
4.				Total Number of Dominant
5.				Species Across All Strata: 2 (B)
				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: (A/B)
7		<del></del>		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ : 0.0 0010.		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2.				FAC species 60 x 3 = 180
3		<del></del> -		FACU species 40 x 4 = 160
4				UPL species 0 x 5 = 0
5		<del></del> -		
6				Column Totals: 100 (A) 340 (B)
7				Prevalence Index = B/A = 3.4
	0			Hydrophytic Vegetation Indicators:
		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Xanthium strumarium	40	Yes	FAC	
2. Digitaria sanguinalis	40	Yes	FACU	3 - Prevalence Index is ≤3.0¹
3. Setaria pumila	20	No	FAC	4 - Morphological Adaptations <sup>1</sup>
4.				(Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH
	100			and greater than or equal to 3.28 ft (1 m) tall.
		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2		<del></del>		height.
3				-1-3-g- 11
4.				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet )			
remarks. (melade prote flambers here of our a separ	ato snoot.)			

	ription: (Describe to th	e depth neede				or or co	onfirm the absence of	indicators.)
Depth	Matrix		Redox			1 2	<b>+</b> .	5
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/4	95 10YR	4/6	5	С	M	Sandy Loam	
<sup>1</sup> Type: C=C	oncentration, D=Depletion	n, RM=Reduce	ed Matrix, MS	S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)	Pol	value Below S	Surface (	(S8) (MLR	A 147, 148	2 cm Muc	ck (A10) (MLRA 147)
Histic Epi	pedon (A2)	Thir	n Dark Surface	(S9) <b>(M</b>	LRA 147, 1	48)	Coast Pra	airie Redox (A16) (MLRA 147, 148)
Black His	tic (A3)	Loa	my Gleyed Ma	trix (F2)	)		Piedmont	Floodplain Soils (F19) (MLRA 146, 147)
Hydroger	n Sulfide (A4)	Dep	oleted Matrix (F	3)			Very Sha	llow Dark Surface (TF12)
	Layers (A5)	Red	lox Dark Surfa	ce (F6)			Other (Ex	plain in Remarks)
2 cm Mud	ck (A10) (LRR N)		leted Dark Su		7)			
•	Below Dark Surface (A11)		lox Depression					
	rk Surface (A12)		-Manganese N				136)	
	ucky Mineral (S1) (LRR N,		bric Surface (F					
MLRA 147			dmont Floodpla					
Sandy Re	eyed Matrix (S4)	Red	l Parent Materi	al (F21)	(MLRA 12	7, 147)		
•	Matrix (S6)							
Dark Surf		<sup>3</sup> Indicators	of hydrophy	tic vege	etation a	nd wetla	nd hydrology must be p	resent, unless disturbed or problematic.
	_ayer (if observed):							
Type:								
	nches):		•				Hydric Soil Preser	nt? Yes <sup>X</sup> No
Remarks:	· -		•					
Nemarks.								

Project/Site: Clover Creek		City/County: Breckinridge	Sampling Date: 07/18/2024				
Applicant/Owner: EDP Renewables		Sta	ate: Kent Sampling Point: DP-09				
Investigator(s): K. Rubio, M. Angel		Section, Township, Rang	ge:				
Landform (hillside, terrace, etc.): Toeslop	oe Local re	elief (concave, convex, none):	Slope %: 4				
Subregion (LRR or MLRA): LRR N MLRA		Long: -86.464178					
	120/1 Edi. 07.707700	NWI class					
Soil Map Unit Name: SaB2							
Are climatic / hydrologic conditions on the site		<del></del>	(If no, explain in Remarks.)				
Are Vegetation , Soil , or Hyde	<del></del>						
Are Vegetation , Soil , or Hyde	rology naturally problem	atic? (If needed, explain any	answers in Remarks.)				
SUMMARY OF FINDINGS - Attach s	ite map showing sampling po	int locations, transects, importa	nt features, etc.				
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes X No	_	YesX No				
Wetland Hydrology Present?	Yes X No	If yes, optional Wetland Site ID					
Remarks: Dry season	<u> </u>	yee, ephenal trenand ene is					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary In	dicators (minimum of two required)				
Primary Indicators (minimum of one is require	ed; check all that apply)		Soil Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)		y Vegetated Concave Surface (B8)				
High Water Table (A2)	True Aquatic Plants (B14)		e Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)  Dry-Season Water Table (C2)					
Water Marks (B1)	Oxidized Rhizospheres on Livi						
Sediment Deposits (B2)	Presence of Reduced Iron (C4						
Drift Deposits (B3)	Recent Iron Reduction in Tilled						
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position (D2)					
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)		Microtopographic Relief (D4)					
Water-Stained Leaves (B9)		X FAC-Ne	utral Test (D5)				
Field Observations:							
Surface Water Present Yes		:					
Water Table Present Yes							
Saturation Present Yes	No X Depth (inches):	Wetland Hydrolog	y Present? Yes X No				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	initoring well, aerial photos, prev	vious inspections), if available:					
Remarks:							

Sampling Point: DP-09

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:			
1. Salix nigra 2.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)			
3		·		Total Number of Dominant Species Across All Strata: (B)			
6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)			
				Prevalence Index worksheet:			
	40	_ = Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species40 x 1 =40			
1				FACW species 35 x 2 = 70			
2				FAC species 35 x 3 = 105			
3				FACU species 25 x 4 = 100			
4							
5				UPL species 0 x 5 = 0			
6				Column Totals: 135 (A) 315 (B)			
7				Prevalence Index = B/A = 2.33			
	0			Hydrophytic Vegetation Indicators:			
T 4	:	= Total Cover		X 1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5 ft)				X 2 - Dominance Test is >50%			
1. Elymus virginicus	35	No	FACW	X 3 - Prevalence Index is ≤3.0¹			
Toxicodendron radicans	25	<u>No</u>	FAC				
3. Phytolacca americana	25	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
4. Microstegium vimineum	10	No	FAC				
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6							
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
8				Definitions of Vegetation Strata:			
9							
10				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
11				diameter at breast height (DDH), regardless of height.			
12.				Sapling/shrub – Woody plants less than 3 in. DBH			
	05			and greater than or equal to 3.28 ft (1 m) tall.			
Woody Vine Stratum (Plot size: 30 ft )	95	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
1				Woody vines – All woody vines greater than 3.28 ft in			
2				height.			
3							
4				Hydrophytic			
	0	<b>-</b>		Vegetation   Present? Yes X No			
	:	= Total Cover		Tresent: res			
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Depth   Matrix   Redox Features
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Indicators:  Hydric Soil Indicators:  Histosol (A1)
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  #Hydric Soil Indicators:  Historic Speadon (A2)  Black Historic Speadon (A2)  Black Historic (A3)  Learny Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Z om Muck (A10) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 147, 148)  Tin Dark Surface (F6)  Z om Muck (A10) (MR N)  Depleted Matrix (F3)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck (Mineral (S1) (LRR N)  Umbric Surface (F12) (MLRA 148)  Sandy Muck (Marco (A12)  Sandy Muck (Marco (A12)  Sandy Muck (Marco (A12)  Red Parent Material (F21) (MLRA 148)  Sandy Gleyed Matrix (S4)  Sandy Muck (S5)  Stripped Matrix (S6)  Dark Surface (S7)  And Care Problematic Hydric Soils*:  **Location: PL=Pore Lining, M=Matrix.  **Indicators for Problematic Hydric Soils*:  **Indicators for Problematic Hydric Soils**:  **Indicators for Problematic Hydric Soils**:  **Indicators for Problematic Hydric Soi
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F7)  Depleted Below Dark Surface (F8)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Dark Surface (S7)  Redox Dark Surface (F12) (MLRA 136, 122)  MLRA 147, 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Ininidicators for Problematic Hydric Soils³:  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  Depleted Matrix (F2)  Pedmont Floodplain Soils (F12) (LRR N, MLRA 136)  Red Parent Material (F21) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F7)  Depleted Below Dark Surface (F8)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Dark Surface (S7)  Redox Dark Surface (F12) (MLRA 136, 122)  MLRA 147, 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Ininidicators for Problematic Hydric Soils³:  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  Depleted Matrix (F2)  Pedmont Floodplain Soils (F12) (LRR N, MLRA 136)  Red Parent Material (F21) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Loamy Service (F6)  Depleted Below Dark Surface (F3)  Depleted Below Dark Surface (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils³:  Cam Muck (A10) (MLRA 147, 148)  Depleted Matrix (F2)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type:
Histosol (A1)
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Depleted Matrix (F3)  Depleted Below Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  There (Explain in Remarks)  Unbric Surface (F7)  Loany Gleyed Matrix (S4)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:
Black Histic (A3)
Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N,  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Jepleted Dark Surface (A12)  Lron-Manganese Masses (F12) (LRR N, MLRA 136)  Lumbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:
Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  — Umbric Surface (F13) (MLRA 136, 122)  — Piedmont Floodplain Soils (F19) (MLRA 148)  — Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  — Other (Explain in Remarks)  A Redox Dark Surface (F7)  MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Type:
2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7) X Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:
Depleted Below Dark Surface (A11) X Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sandy Mucky Mineral (S1) (LRR N, MLRA 147,148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127,147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:
MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Red Parent Material (F21) (MLRA 127, 147)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Stripped Matrix (S6)  Type:  Type:
Stripped Matrix (S6)  Dark Surface (S7)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:
Dark Surface (S7)   **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  **Restrictive Layer (if observed):  **Type:
Restrictive Layer (if observed):  Type:
Type:
Deptit (inicities).
Remarks:

Project/Site: Clover Creek	City/C	ounty: Breckinridge	Sampling Date: 07/18/2024			
Applicant/Owner: EDP Renewables		' <u>'</u>	Sampling Point:			
Investigator(s): K. Rubio, M. Angel		Section, Township, Range:	_			
Landform (hillside, terrace, etc.): Flat	Local relief (co	ncave, convex, none): Linear	Slope %: 1			
Subregion (LRR or MLRA): LRR N MLRA 120A		Long: -86.464327	Datum: WGS84			
Soil Map Unit Name: SaB2		NWI classification:				
•	al fau thia time a af wa and		avalaia in Damada \			
Are climatic / hydrologic conditions on the site typica	•	<del></del>	, explain in Remarks.)			
Are Vegetation , Soil , or Hydrology		Are "Normal Circumstances" pre				
Are Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain any answers i	n Remarks.)			
SUMMARY OF FINDINGS - Attach site ma	p showing sampling point loc	ations, transects, important feature	es, etc.			
Hydrophytic Vegetation Present? Yes	No X Is t	ne Sampled Area				
			No X			
Wetland Hydrology Present? Yes		s, optional Wetland Site ID:	- "-			
Remarks: Dry season.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)			
Primary Indicators (minimum of one is required; ch	eck all that apply)	Surface Soil Cracks				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely vegetated Drainage Patterns (I	Concave Surface (B8)			
High Water Table (A2)	True Aquatic Plants (B14)	Moss Trim Lines (B16)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)				
Water Marks (B1)	Oxidized Rhizospheres on Living Root					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)		n Aerial Imagery (C9)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position	` ,			
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D	3)			
Inundation Visible on Aerial Imagery (B7)		Microtopographic Re	elief (D4)			
Water-Stained Leaves (B9)		FAC-Neutral Test (D	05)			
Field Observations:						
Surface Water Present Yes No		_				
Water Table Present Yes No	X Depth (inches):	_				
	X Depth (inches):	Wetland Hydrology Present	? Yes No X			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous ir	spections), if available:				
Remarks:						
Tromano.						

Sampling Point: DP-10

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata:1 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
<i>/</i>				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15 ft)				OBL species0 x 1 =0
1				FACW species 0 x 2 =0
2				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4				UPL species 75 x 5 = 375
5				Column Totals: 75 (A) 375 (B)
6				
7				Trevalence maex = B/A =
	0	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)		= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
1. Glycine max	75	Yes	UPL	2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup>
4.				(Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
9.				Seminaria di Vegetation dirata.
10.				Tree – Woody plants 3 in. (7.6 cm) or more in
11				diameter at breast height (DBH), regardless of height.
12.				Sapling/shrub – Woody plants less than 3 in. DBH
12.				and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft )	<u>75</u>	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0	= Total Cover		Vegetation           Present?         Yes
Remarks: (Include photo numbers here or on a separ	ate sheet \			1
Remarks: (include photo numbers here or on a separ	ale sneet.)			

		the depth need				or or co	onfirm the absence of	indicators.)	
Depth	Matrix	0/ Calar		Feature		12	Taratrana	Dama	wl
(inches)	Color (moist)	% Color	(moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-16	10YR 4/4	98 10YR	4/6	2	С	М	Sandy Loam	-	
¹Type: C=Co	oncentration, D=Deple	etion, RM=Reduc	ed Matrix, M	S=Mas	ked Sand	Grains	. <sup>2</sup> Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators f	or Problematic Hydr	ic Soils³:
Histosol (	A1)	Pol	yvalue Below	Surface	(S8) (MLR	A 147, 148	) 2 cm Mu	ick (A10) (MLRA 147)	
Histic Epi	pedon (A2)	Thi	n Dark Surface	e (S9) <b>(M</b>	ILRA 147, 1	48)	Coast Pr	rairie Redox (A16) (MLRA	147, 148)
Black His	tic (A3)	Loa	my Gleyed Ma	atrix (F2)	)		Piedmor	nt Floodplain Soils (F19)	(MLRA 146, 147)
Hydrogen	Sulfide (A4)	Dep	oleted Matrix (	F3)			Very Sha	allow Dark Surface (TF12	2)
Stratified	Layers (A5)	Red	dox Dark Surfa	ace (F6)			Other (E	xplain in Remarks)	
2 cm Muc	ck (A10) (LRR N)	Dep	oleted Dark Su	ırface (F	7)				
Depleted	Below Dark Surface (A1	1) Red	dox Depressio	ns (F8)					
Thick Dar	k Surface (A12)	Iror	n-Manganese l	Masses	(F12) (LRF	R N, MLRA	136)		
Sandy Mu	ucky Mineral (S1) (LRR N	, Um	bric Surface (I	F13) <b>(ML</b>	RA 136, 12	2)			
MLRA 147		Pie	dmont Floodpl	lain Soils	(F19) <b>(M</b> I	RA 148)			
	eyed Matrix (S4)	Red	d Parent Mater	rial (F21)	(MLRA 12	7, 147)			
Sandy Re									
	Matrix (S6)	3Indicators	of hydrophy	rtic vea	etation a	nd wetla	ınd hydrology must be p	present, unless distur	ned or problematic
— Dark Surf	ace (S7) -ayer (if observed):	maioatore	or my aropmy	, ao rog	otation a	na would	The Hydrology made 50 p	procent, unioce dictan	ou or problematic.
			-						٧
Depth (ir	nches):		-				Hydric Soil Prese	nt? Yes	NoX
Remarks:									

Project/Site: Clover Creek		City/County:	Breckinridge	Sampling Date: 07/18/2024			
Applicant/Owner: EDP Renewables		•		Sampling Point: DP-11			
Investigator(s): K. Rubio, M. Angel		Section	on, Township, Range:				
Landform (hillside, terrace, etc.): Flat	l ocal re	elief (concave, o		Slope %: 1			
· · · · · · · · · · · · · · · · · · ·			•				
Subregion (LRR or MLRA): LRR N MLRA	120A Lat: 37.758912		Long: <u>-86.464183</u>	Datum: WGS84			
Soil Map Unit Name: SaB2			NWI classification:				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes	No <u>X</u> (If no,	explain in Remarks.)			
Are Vegetation , Soil , or Hydr	ology significantly distur	rbed? Are	"Normal Circumstances" pres	sent? Yes X No			
Are Vegetation , Soil , or Hydr	rology naturally problema	atic? (If no	eeded, explain any answers i	n Remarks.)			
SUMMARY OF FINDINGS – Attach si	ite map showing sampling po	int locations, t	transects, important feature	s, etc.			
		0					
Hydrophytic Vegetation Present?	Yes No X	Is the Samp		Ma V			
Hydric Soil Present?	Yes X No	within a We		NoX			
Wetland Hydrology Present?	Yes X No	If yes, option	nal Wetland Site ID:				
Remarks: Dry season.							
HYDROLOGY	_						
Wetland Hydrology Indicators:			Secondary Indicators (mi				
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks Sparsely Vegetated	(B6) Concave Surface (B8)			
Surface Water (A1)	Aquatic Fauna (B13)		Drainage Patterns (E				
High Water Table (A2)	True Aquatic Plants (B14)		Moss Trim Lines (B16)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)				
Water Marks (B1)	Oxidized Rhizospheres on Livi	ving Roots (C3) Crayfish Burrows (C8)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4	4)	Saturation Visible on	Aerial Imagery (C9)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled	d Soils (C6)	Stunted or Stressed	Plants (D1)			
X Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position	ı (D2)			
Iron Deposits (B5)	Other (Explain in Remarks)		Shallow Aquitard (D3	3)			
Inundation Visible on Aerial Imagery (B7)			Microtopographic Re	elief (D4)			
Water-Stained Leaves (B9)			FAC-Neutral Test (D	5)			
Field Observations:							
Surface Water Present Yes		<u> </u>					
Water Table Present Yes	No X Depth (inches):						
Saturation Present Yes	No X Depth (inches):	:   <b>`</b>	Wetland Hydrology Present	? Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	initoring well, aerial photos, prev	vious inspectio	ns), if available:				
Remarks:							
Nomans.							

<b>VEGETATION</b> – Use scientific names of pl	Sampling Point: DP-11			
Tree Stratum (Plot size: 30 ft)	Absolute <u>% Cover</u>	Dominant Species	Indicator Status	Dominance Test worksheet:
1		<del></del> .		Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,,
4.				Total Number of Dominant
				Species Across All Strata: 0 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:(A/B)
7		<del></del>		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10tai 00vci		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species 30 x 3 = 90
3		<del></del>		FACU species 35 x 4 = 140
4				UPL species 5 x 5 = 25
5		<del></del> .		
6				Column Totals: 70 (A) 255 (B)
7		<del></del>		Prevalence Index = B/A = 3.64
	0			Hydrophytic Vegetation Indicators:
- 4		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Verbena urticifolia	30	No	FAC	
2. Lonicera japonica	25	No	FACU	3 - Prevalence Index is ≤3.0¹
3. Vernonia angustifolia	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. Asclepias tuberosa	_	No	UPL	(Frovide supporting data in Nemarks of on a separate sheet)
5.		<u> </u>		Problematic Hydrophytic Vegetation¹ (Explain)
				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
8				Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				On the state of th
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	70			and greater than or equal to 0.20 it (1 m) tall.
20 #		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3		<u> </u>		
4				Hydrophytic
	0			Vegetation No. X
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

	Matrix  Color (moist) %  OYR 4/4 9					or or co		
	<u> </u>	C ~ 1 ~ "	(moist)	Feature	es Type¹	Loc <sup>2</sup>	Toyturo	Remarks
0-16 10	OYR 4/4 9	o Color	(moist)	<u>%</u>	Type	LOC	Texture	Remarks
		5 10YR	4/6	5	С	M	Sandy Loam	
			_					
¹Type: C=Conce	entration, D=Depletion	, RM=Reduce	ed Matrix, M	IS=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Hydric Soil India	cators:						Indicators for I	Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Poly	value Below	Surface (	S8) (MLR	A 147, 148)	2 cm Muck (	A10) (MLRA 147)
Histic Epipedo	on (A2)		n Dark Surfac				<del></del>	e Redox (A16) (MLRA 147, 148)
Black Histic (A			my Gleyed M					oodplain Soils (F19) (MLRA 146, 147)
Hydrogen Sulf		·	leted Matrix (					v Dark Surface (TF12)
Stratified Laye		Rec	lox Dark Surf	ace (F6)				in in Remarks)
2 cm Muck (A	10) (LRR N)	Dep	leted Dark S	urface (F7	7)			
Depleted Belo	w Dark Surface (A11)	X Rec	lox Depressio	ns (F8)				
Thick Dark Su	rface (A12)	Iron	-Manganese	Masses (	F12) (LRF	N, MLRA	136)	
Sandy Mucky	Mineral (S1) (LRR N,	Um	bric Surface (	F13) (MLF	RA 136, 12	2)		
MLRA 147, 148	)	Pied	dmont Floodp	lain Soils	(F19) <b>(ML</b>	RA 148)		
Sandy Gleyed	Matrix (S4)	Red	Parent Mate	rial (F21)	(MLRA 12	7, 147)		
Sandy Redox	(S5)							
Stripped Matri		31 ndinatora	of budronb	utio voca	totion o	مط بیرمدام	ad budralagu muat ba arac	ant unless disturbed or problemati
Dark Surface		indicators	or nydropn	ylic vege	etation a	na wellal	na nyarology must be pres	sent, unless disturbed or problemation
Restrictive Laye	er (if observed):							
Type:								V
Depth (inche	s):		ı				Hydric Soil Present?	YesXNo

Project/Site: Clover Creek		City/County: Brecki	nridge	Sampling Date: <u>07/18/2024</u>			
Applicant/Owner: EDP Renewables	_		State: Kent	Sampling Point: DP-12			
Investigator(s): K. Rubio, M. Angel		Section, Tow	/nship, Range:				
Landform (hillside, terrace, etc.): Flat	Local re	lief (concave, convex,	none): Linear	Slope %: 1			
Subregion (LRR or MLRA): LRR N MLRA 12	•	Long:		Datum: WGS84			
- · · · · · · · · · · · · · · · · · · ·	<u> </u>	Long.	NWI classification:	Datam. VVCCOT			
Soil Map Unit Name: SaB2			•				
Are climatic / hydrologic conditions on the site t		Yes		explain in Remarks.)			
Are Vegetation , Soil , or Hydrol	logy significantly distur		al Circumstances" pres				
Are Vegetation , Soil , or Hydrol	logy naturally problema	atic? (If needed,	explain any answers ir	i Remarks.)			
SUMMARY OF FINDINGS - Attach site	e map showing sampling poi	nt locations, transec	ts, important feature	s, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Ar					
1	Yes X No	within a Wetland?		No			
l	Yes X No	If yes, optional Wet					
Remarks: Dry season.	<u>//</u>	, 500, 001.01.01.					
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (mir	nimum of two required)			
Primary Indicators (minimum of one is required	d; check all that apply)		Surface Soil Cracks (				
X Surface Water (A1)	Aquatic Fauna (B13)			Concave Surface (B8)			
High Water Table (A2)	True Aquatic Plants (B14)		Drainage Patterns (B				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)  Dry-Season Water Table (C2)					
Water Marks (B1)	Oxidized Rhizospheres on Livi	ng Roots (C3)	X Crayfish Burrows (C8				
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	)	Saturation Visible on				
Drift Deposits (B3)	Recent Iron Reduction in Tilled	Soils (C6)	Stunted or Stressed F				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position	` '			
Iron Deposits (B5)	Other (Explain in Remarks)						
Inundation Visible on Aerial Imagery (B7)			Microtopographic Rel	lief (D4)			
Water-Stained Leaves (B9)			X FAC-Neutral Test (D5	5)			
Field Observations:							
	No Depth (inches):	2					
Water Table Present Yes							
·	No X Depth (inches):	Wetland	d Hydrology Present?	? Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, moni	itoring well, aerial photos, prev	vious inspections), if a	vailable:				
Remarks:							
Tremane.							
İ							

Sampling Point: DP-12

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:0(A)
3 4				Total Number of Dominant Species Across All Strata: 0 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
	0	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 $x 1 = 0$
1. Acer rubrum	5	No	FAC	FACW species 100 x 2 = 200
2				FAC species 5 x 3 = 15
3				
4				FACU species 0 x 4 = 0
5				UPL species 0 x 5 = 0
6				Column Totals: 105 (A) 215 (B)
7				Prevalence Index = B/A = 2.05
				Hydrophytic Vegetation Indicators:
	5	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				2 - Dominance Test is >50%
1. Bidens frondosa	40	No	FACW	X 3 - Prevalence Index is ≤3.0¹
2. Juncus effusus	30	No	FACW	
3. Cyperus strigosus	30	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
10.				Tree – Woody plants 3 in. (7.6 cm) or more in
11				diameter at breast height (DBH), regardless of height.
12.				Sapling/shrub – Woody plants less than 3 in. DBH
	400			and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft)		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1		-		Woody vines – All woody vines greater than 3.28 ft in
2				height.
3		<del></del>		
4				Hydrophytic
		= Total Cover		Vegetation Present? Yes X No No
Pomorko: (Includo photo pumboro boro or on a casa	rata abaat \			1
Remarks: (Include photo numbers here or on a separate	ate sneet.)			

Profile Desc	cription: (Describe to	the dep	th need	ed to docu	ment th	e indica	tor or co	onfirm the absence of inc	dicators.)
Depth	Matrix			Redo	x Featur	es			
(inches)	Color (moist)	%	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 5/3	90	10YR	4/6	10	С	М	Clay Loam	
									_
			-						
¹Type: C=C	oncentration, D=Depl	etion, RN	/I=Reduce	ed Matrix, N	/IS=Mas	ked San	d Grains	. <sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Hydric Soil	Indicators:							Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Pol	value Below	/ Surface	(S8) (MLR	A 147, 148	) 2 cm Muck (	A10) (MLRA 147)
Histic Ep	ipedon (A2)		Thir	Dark Surfac	ce (S9) (N	ILRA 147, 1	148)	Coast Prairie	e Redox (A16) (MLRA 147, 148)
Black His	stic (A3)		Loa	my Gleyed N	/latrix (F2	)		Piedmont FI	oodplain Soils (F19) (MLRA 146, 147)
Hydroge	n Sulfide (A4)		Dep	leted Matrix	(F3)			Very Shallov	v Dark Surface (TF12)
Stratified	Layers (A5)		Red	lox Dark Sur	face (F6)			Other (Expla	ain in Remarks)
2 cm Mu	ck (A10) (LRR N)			leted Dark S	-	7)			
Depleted	Below Dark Surface (A1	11)	X Rec	lox Depressi	ons (F8)				
Thick Da	rk Surface (A12)		Iron	-Manganese	Masses	(F12) (LRI	R N, MLRA	136)	
Sandy M	ucky Mineral (S1) (LRR N	١,	Um	bric Surface	(F13) <b>(ML</b>	RA 136, 12	2)		
MLRA 14			Pie	dmont Flood	plain Soils	s (F19) <b>(M</b> I	LRA 148)		
-	leyed Matrix (S4)		Rec	Parent Mate	erial (F21	) (MLRA 12	27, 147)		
	edox (S5)								
	Matrix (S6)	3	ndicators	of hydronh	vtic vea	etation a	nd wetla	nd hydrology must be pre-	sent, unless disturbed or problematic.
Dark Sur	face (S7)  Layer (if observed):		Tidicators	or riyuropi	iyuc veg	ctation a	na wetia	Т	serit, unless disturbed of problematic.
Type:	Layer (II Observed).								
	nahaa).							Hydric Soil Present?	Yes <sup>X</sup> No
	nches):							nyuric Soil Present?	Yes X No
Remarks:									

Project/Site: Clover Creek		City/County: E	3reckinridge	Sampling Date: <u>07/18/2024</u>			
Applicant/Owner: EDP Renewables				Sampling Point: DP-13			
Investigator(s): K. Rubio, M. Angel		Section	n, Township, Range:	<u> </u>			
Landform (hillside, terrace, etc.): Flat	Local re	elief (concave, co		Slope %: 1			
Subregion (LRR or MLRA): LRR N MLRA		•	_ong: -86.47344	Datum: WGS84			
Soil Map Unit Name: uRobA	2		NWI classification:				
•	timical for this time of year?	Voc		lain in Damarka )			
Are climatic / hydrologic conditions on the site	•	Yes _	<del></del>	explain in Remarks.)			
Are Vegetation , Soil , or Hydro		/16	Normal Circumstances" presi				
Are Vegetation , Soil , or Hydro	ology naturally problems	atic?	eded, explain any answers in	і Кетагкѕ.)			
SUMMARY OF FINDINGS - Attach si	te map showing sampling po	int locations, tra	ansects, important features	s, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sample	Ind Arpa				
Hydric Soil Present?	Yes X No	within a Wet		No_X_			
Wetland Hydrology Present?	Yes NoX		al Wetland Site ID:	<u> </u>			
Remarks: Dry season.		), -, -					
Remains. Dry season.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (mir	nimum of two required)			
Primary Indicators (minimum of one is require	ed: check all that apply)		Surface Soil Cracks (	·			
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated C	·			
High Water Table (A2)	True Aquatic Plants (B14)		Drainage Patterns (B				
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16				
Water Marks (B1)	Oxidized Rhizospheres on Livi	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced Iron (C4	Claylish Burlows (Co)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled			• , , ,			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	1 30113 (00)	Stunted or Stressed F	, ,			
Iron Deposits (B5)	Other (Explain in Remarks)	Geomorphic Position (D2)  Shallow Aquitord (D3)					
Inundation Visible on Aerial Imagery (B7)	Onto (Explain in termane,	Orianow Adultara (B5)					
Water-Stained Leaves (B9)			Microtopographic Rel				
Field Observations:			FAC-Neutral Test (D5	<u>))</u>			
Surface Water Present Yes	No X Depth (inches):						
Water Table Present Yes							
Saturation Present Yes			/etland Hydrology Present?	Yes No X			
(includes capillary fringe)	NO A Deput (illichos).	·   ·	chana nyarorogy i roce	100			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections	s). if available:				
55	, , , , , , , , , , , , , , , , , , ,	71000	<i>5)</i> ; II 3.73.13.12.1				
Remarks:							

Sampling Point: DP-13

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Ulmus americana	30	No No	FACW	John Mariou 1991 Methorises
2. Acer rubrum	25	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3. Carya glabra			FACU	That Are OBL, FACW, or FAC: (A)
Liquidambar styraciflua			FAC	Total Number of Dominant
5. Cercis canadensis			FACU	Species Across All Strata: 0 (B)
6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
45.6	85	_ = Total Cover	•	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1				FACW species 30 x 2 = 60
2				FAC species40 x 3 =120
3				FACU species 20 x 4 = 80
4				UPL species 0 x 5 = 0
5				Column Totals: 90 (A) 260 (B)
6.				Prevalence Index = B/A = 2.89
7				Hydrophytic Vegetation Indicators:
	0	= Total Cover		
Herb Stratum (Plot size: 5 ft)				1 - Rapid Test for Hydrophytic Vegetation
1. Toxicodendron radicans	5	No	FAC	2 - Dominance Test is >50%
2.				X 3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				(i Tovide Supporting data in Normanie of on a supplicate shoot)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	5	T-1-1 0		
Woody Vine Stratum (Plot size:30 ft_)		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
, , , , , , , , , , , , , , , , , , , ,				of size, and woody plants less than 3.28 ft tall.
1 2.				Woody vines – All woody vines greater than 3.28 ft in
		-		height.
3 4				Hydrophytic
T				Vegetation
	0	= Total Cover		Present? Yes X No No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

	ription: (Describe to the	e depth need				or or co	onfirm the absence of	indicators.)
Depth	Matrix		Redox F					
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 5/3	90 10YR	3/6	10	С	M	Clay Loam	
¹Type: C=C	oncentration, D=Depletion	on, RM=Reduc	ed Matrix, MS	=Mask	ced Sand	Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydric Soils³:
Histosol (		Pol	yvalue Below S	urface (	(S8) (MLR	A 147, 148	) 2 cm Muc	ck (A10) (MLRA 147)
	ipedon (A2)	<u></u>	n Dark Surface					airie Redox (A16) (MLRA 147, 148)
Black His			amy Gleyed Mat					t Floodplain Soils (F19) (MLRA 146, 147)
	n Sulfide (A4)		oleted Matrix (F				Very Sha	llow Dark Surface (TF12)
Stratified		Re	dox Dark Surfac	e (F6)				oplain in Remarks)
2 cm Mud	ck (A10) (LRR N)	De <sub>l</sub>	oleted Dark Sur	face (F7	7)			
	Below Dark Surface (A11)	X Rec	dox Depressions	s (F8)				
Thick Da	rk Surface (A12)	Iror	n-Manganese M	asses (	F12) (LRF	N, MLRA	136)	
Sandy M	ucky Mineral (S1) (LRR N,	Um	bric Surface (F	13) <b>(ML</b> F	RA 136, 12	2)		
MLRA 147	', 148)	Pie	dmont Floodpla	in Soils	(F19) <b>(ML</b>	RA 148)		
Sandy GI	eyed Matrix (S4)	Re	d Parent Materia	al (F21)	(MLRA 12	7, 147)		
Sandy Re	` '							
Stripped	Matrix (S6)	311:		: <u>_</u>				
Dark Sur		Indicators	s of nyaropnyt	ic vege	etation a	nd wetia	na nyarology must be p	resent, unless disturbed or problematic.
	_ayer (if observed):							
			-					
Depth (ir	nches):		_				Hydric Soil Preser	nt? Yes_X No
Remarks:							•	

Project/Site: Clover Creek		City/County:	Breckinridge	Sampling Date: 07/18/2024			
Applicant/Owner: EDP Renewables		-		t Sampling Point: DP-14			
Investigator(s): KR MA		Sectio	n, Township, Range:	<u></u>			
Landform (hillside, terrace, etc.): Flat	l ocal re	elief (concave, c		Slope %: 1			
· · · · · · · · · · · · · · · · · · ·	•						
Subregion (LRR or MLRA): LRR N MLRA 1	120A Lat: 31.101110		Long: <u>-86.474995</u>	Datum: WGS84			
Soil Map Unit Name: uRobA			NWI classification:				
Are climatic / hydrologic conditions on the site		Yes		o, explain in Remarks.)			
Are Vegetation , Soil , or Hydro	ology significantly distur		'Normal Circumstances" pre	<del></del>			
Are Vegetation , Soil , or Hydro	ology naturally problems	atic? (If ne	eeded, explain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attach si	te map showing sampling po	int locations, t	ransects, important feature	es, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Samp	lad Araa				
Hydric Soil Present?	Yes X No	within a We		No			
Wetland Hydrology Present?	Yes X No		nal Wetland Site ID:				
Remarks: (Explain alternative procedures he							
Dry season. Power ROW.	•						
LIVEROLOGY							
HYDROLOGY			Secondary Indicators (m	sinimum of two required)			
Wetland Hydrology Indicators:			Secondary Indicators (m				
Primary Indicators (minimum of one is require				Concave Surface (B8)			
X Surface Water (A1)	Aquatic Fauna (B13)		Drainage Patterns (	B10)			
High Water Table (A2) True Aquatic Plants (B14) Moss Trim Lines (B16)							
X Saturation (A3)	Hydrogen Sulfide Odor (C1)		Dry-Season Water	Γable (C2)			
Water Marks (B1)	Oxidized Rhizospheres on Livi	ing Roots (C3)	X Crayfish Burrows (C	:8)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4	1)	Saturation Visible or	n Aerial Imagery (C9)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled	d Soils (C6)	Stunted or Stressed	Plants (D1)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Positio	n (D2)			
Iron Deposits (B5)	Other (Explain in Remarks)		Shallow Aquitard (D	13)			
Inundation Visible on Aerial Imagery (B7)			Microtopographic R	elief (D4)			
Water-Stained Leaves (B9)			X FAC-Neutral Test (E	05)			
Field Observations:							
Surface Water Present Yes X	No Depth (inches):	2					
Water Table Present Yes		:					
Saturation Present Yes X	No Depth (inches):	: <u> </u>	Vetland Hydrology Present	t? Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspection	ns), if available:				
- Domarka:							
Remarks:							

Sampling Point: DP-14

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
3.				Total Number of Dominant Species Across All Strata: 3 (B)
6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
_	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1. Acer rubrum	2	No	FAC	FACW species 70 x 2 = 140
2				FAC species 2 x 3 = 6
3				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				
6				Column Totals: 72 (A) 146 (B)
7				Prevalence Index = B/A = 2.03
	2			Hydrophytic Vegetation Indicators:
<b>5 4</b> .	:	= Total Cover		X 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				X 2 - Dominance Test is >50%
1. Juncus effusus	25	Yes	FACW	X 3 - Prevalence Index is ≤3.0¹
Cyperus strigosus	25	Yes	FACW	
3. Bidens frondosa	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				5 11 5 11 1 5 14 15 15 15
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
10				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				diameter at breast height (DBH), regardless of height.
12.			<del>-</del>	Sapling/shrub – Woody plants less than 3 in. DBH
	70			and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft )	= 70	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0			Vegetation   Present? Yes X No
	:	= Total Cover		Present? Yes ^ No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Depth (inches) 0-16 1	Matrix Color (moist) %		Dodos			or or co		
		- Color		Feature	es Type¹	Loc <sup>2</sup>	Toyturo	Remarks
0-16 1	Color (molety 7	6 Color	(moist)	<u>%</u>	Type	LOC	Texture	Remarks
	10YR 5/3 9	0 10YR	4/6	10	С	M	Clay Loam	
		_						
¹Type: C=Conc	entration, D=Depletion	, RM=Reduce	ed Matrix, M	1S=Mask	ced Sand	Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Hydric Soil Indi	icators:						Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Pol	value Below	Surface (	(S8) (MLR	A 147, 148)		410) <b>(MLRA 147)</b>
Histic Epiped			n Dark Surfac				<del></del>	Redox (A16) (MLRA 147, 148)
Black Histic (			my Gleyed M					oodplain Soils (F19) (MLRA 146, 147)
Hydrogen Su		Dep	leted Matrix	(F3)			Very Shallow	Dark Surface (TF12)
Stratified Lay		Red	lox Dark Surf	ace (F6)				in in Remarks)
2 cm Muck (A	A10) (LRR N)	Dep	leted Dark S	urface (F	7)			
Depleted Bel	ow Dark Surface (A11)	X Rec	lox Depressio	ons (F8)				
Thick Dark S	urface (A12)	Iron	-Manganese	Masses (	F12) (LRF	N, MLRA	136)	
Sandy Mucky	/ Mineral (S1) (LRR N,	Um	bric Surface (	(F13) <b>(ML</b> I	RA 136, 12	2)		
MLRA 147, 148	8)	Pie	dmont Floodp	lain Soils	(F19) <b>(M</b> I	RA 148)		
Sandy Gleye	d Matrix (S4)	Red	Parent Mate	erial (F21)	(MLRA 12	7, 147)		
Sandy Redox	(S5)							
Stripped Mati		3Indiantora	of budroph	vtio vogo	station o	nd watla	nd bydrology must be pres	eant unless disturbed or problemati
Dark Surface		Thuicators	or riyuropri	ylic vege	talion a	nu wella	The flydrology flidst be pres	ent, unless disturbed or problemation
-	er (if observed):							
Туре:								V
Depth (inche	es):		ı				Hydric Soil Present?	YesXNo

Project/Site: Clover Creek		City/County: Brecking	idge	Sampling Date: <u>07/18/2024</u>			
Applicant/Owner: EDP Renewables			State: Kent	Sampling Point: DP-15			
Investigator(s): KR MA		Section, Towns	ship, Range:				
Landform (hillside, terrace, etc.): Flat	Local re	lief (concave, convex, ne	one): Linear	Slope %: 1			
Subregion (LRR or MLRA): LRR N MLRA		Long: -8	, <u> </u>	Datum: WGS84			
Soil Map Unit Name: uRobA	12071 Lat. 071101110		NWI classification:				
	turning for this times of upon			avalaia in Damaria \			
Are climatic / hydrologic conditions on the site		Yes		explain in Remarks.)			
Are Vegetation , Soil , or Hydr			Circumstances" pres				
Are Vegetation , Soil , or Hydr	ology naturally problema	atic? (II needed, ex	cplain any answers ir	remarks.)			
SUMMARY OF FINDINGS – Attach si	te map showing sampling poi	nt locations, transects	, important feature	s, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes X No	within a Wetland?	Yes	No_X_			
Wetland Hydrology Present?	Yes No X	If yes, optional Wetlan					
Dry season							
HYDROLOGY							
Wetland Hydrology Indicators:		<u>Se</u>	econdary Indicators (mir	nimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)	<del>-</del>	Surface Soil Cracks (	· ·			
Surface Water (A1)	Aquatic Fauna (B13)	_		Concave Surface (B8)			
Surface Water (A1)							
Moss Triff Lines (B16) Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)							
Water Marks (B1)	Oxidized Rhizospheres on Livi	ng Roots (C3)	Crayfish Burrows (C8				
Sediment Deposits (B2)	Presence of Reduced Iron (C4	_	Saturation Visible on				
Drift Deposits (B3)	Recent Iron Reduction in Tilled	Soils (C6)	Stunted or Stressed F				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	Geomorphic Position				
Iron Deposits (B5)	Other (Explain in Remarks)	_	Shallow Aquitard (D3	` ′			
Inundation Visible on Aerial Imagery (B7)		_	Microtopographic Rel				
Water-Stained Leaves (B9)			FAC-Neutral Test (D5				
Field Observations:							
Surface Water Present Yes	No X Depth (inches):						
Water Table Present Yes							
Saturation Present Yes		Wetland H	Hydrology Present?	Yes No_X_			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	/ious inspections), if ava	ilable:				

Sampling Point: DP-15

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Carya glabra	20	Yes	FACU	
Liquidamber styraciflua	20	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3. Acer rubrum	20	Yes	FAC	
4. <u>Cercis canadensis</u>	10	No	FACU	Total Number of Dominant Species Across All Strata: 4 (B)
5				`` /
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
7				Prevalence Index worksheet:
	70	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = Total Cover		OBL species 0 x 1 = 0
1.				FACW species 0 x 2 =0
2				FAC species 50 x 3 = 150
3.				FACU species 30 x 4 = 120
4				UPL species 0 x 5 = 0
5				Column Totals: 80 (A) 270 (B)
6				Prevalence Index = B/A = 3.38
7	_			Trevalence mack = B/A =
	0	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)				1 - Rapid Test for Hydrophytic Vegetation
1. Toxicodendron radicans	10	Yes	FAC	X 2 - Dominance Test is >50%
2				3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				- Problematic Hydrophytic Vegetation (Explain)
6.				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
0				Definitions of Vegetation Strata:
10				Tree – Woody plants 3 in. (7.6 cm) or more in
11.				diameter at breast height (DBH), regardless of height.
12.	_			Sapling/shrub – Woody plants less than 3 in. DBH
	10			and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft )		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
1				of size, and woody plants less than 3.28 ft tall.
2.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
3.				height.
4.				Hydrophytic
	0			Vegetation   Present?
		= Total Cover		Present? Yes X No No
Remarks: (Include photo numbers here or on a se	parate sheet.)			
				I

	ription: (Describe to th	e depth need				or or co	onfirm the absence of	indicators.)
Depth	Matrix		Redox I					
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 5/3	90 10YR	3/6	10	С	M	Clay Loam	
¹Type: C=C	oncentration, D=Depletion	on, RM=Reduc	ed Matrix, MS	S=Masl	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
Hydric Soil	ndicators:						Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol (		Pol	yvalue Below S	urface (	(S8) (MLR	A 147, 148	2 cm Muc	ck (A10) (MLRA 147)
	pedon (A2)	· <u></u>	n Dark Surface					airie Redox (A16) (MLRA 147, 148)
Black His			my Gleyed Ma					t Floodplain Soils (F19) (MLRA 146, 147)
	Sulfide (A4)		oleted Matrix (F				Very Sha	illow Dark Surface (TF12)
Stratified		Red	dox Dark Surfac	ce (F6)				xplain in Remarks)
2 cm Mud	ck (A10) (LRR N)	Dep	oleted Dark Sur	face (F	7)			
	Below Dark Surface (A11)	X Rec	dox Depression	s (F8)				
Thick Da	rk Surface (A12)	Iror	n-Manganese M	lasses (	(F12) (LRF	N, MLRA	136)	
Sandy M	ucky Mineral (S1) (LRR N,	Um	bric Surface (F	13) <b>(ML</b> I	RA 136, 12	2)		
MLRA 147	, 148)	Pie	dmont Floodpla	in Soils	(F19) <b>(M</b> L	RA 148)		
Sandy GI	eyed Matrix (S4)	Red	d Parent Materi	al (F21)	(MLRA 12	7, 147)		
Sandy Re	` '							
Stripped	Matrix (S6)	31	بر دا د د الد د الد د ا		_4_4:			
Dark Sur		indicators	or nyaropnyt	ic vege	etation a	nd wetia	na nyarology must be p	present, unless disturbed or problematic.
	_ayer (if observed):							
			-					
Depth (ir	nches):		•				Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:							•	

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:						
	Local relief (concave, convex, none): Linear Slope %: 6						
Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 37.762138							
Soil Map Unit Name: SaB2	NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of	·						
Are Vegetation , Soil , or Hydrology significan							
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS - Attach site map showing samp	oling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X							
Wetland Hydrology Present? Yes No X	<del></del>						
Remarks: Dry season.							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)						
Surface Water (A1) Aquatic Fauna (B13)							
High Water Table (A2)  True Aquatic Plants (B14)  Moss Trim Lines (B16)							
Saturation (A3) Hydrogen Sulfide Oc							
Water Marks (B1) Oxidized Rhizosphe	eres on Living Roots (C3)  Crayfish Burrows (C8)						
Sediment Deposits (B2) Presence of Reduce							
Drift Deposits (B3) Recent Iron Reduction	on in Tilled Soils (C6)  Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Thin Muck Surface (	(C7) Geomorphic Position (D2)						
Iron Deposits (B5) Other (Explain in Re	emarks) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)						
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)						
Field Observations:							
	(inches):						
	(inches):						
	(inches):   Wetland Hydrology Present? Yes No_X						
(includes capillary fringe)	stop province increations) if available.						
Describe Recorded Data (stream gauge, monitoring well, aerial pho	ilos, previous inspections), il available.						
Remarks:							
Tromano.							

<b>VEGETATION</b> – Use scientific names of plants	ants.			Sampling Point: DP-16
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,,
4.				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:0 (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10tai 00vci		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species0 x 3 =0
3		<del></del> -		FACU species 60 x 4 = 240
4				UPL species 0 x 5 = 0
5		<del></del> .		· —
6				Column Totals: 60 (A) 240 (B)
7				Prevalence Index = B/A =4
	0			Hydrophytic Vegetation Indicators:
_		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Solanum nigrum	50	Yes	FACU	
2. Festuca arundinacea	10	No	FACU	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Provide supporting data in Remarks of on a separate sneet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
6				
7		·		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	60			and greater than or equal to 3.26 it (1 iii) tail.
	:	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2.				height.
3				
4				Hydrophytic
	_			Vegetation
		= Total Cover		Present? Yes NoX
Remarks: (Include photo numbers here or on a separ	ate sheet.)			•
	,			

Depth   Matrix   Redox Features	Profile Descr	iption: (Describe to the	depth neede	ed to docur	nent the	e indicat	tor or co	nfirm the absence o	f indicators.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Thick Call (All 1)	Depth	Matrix	_	Redox	c Feature	es				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.**  Hydric Soil Indicators:    Histosol (A1)	(inches)	Color (moist) %	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:	0-16	10YR 3/3 100	)					Loam		
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Thick Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Thick Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:										
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (A11)  Thin Dark Surface (F13) (MLRA 147, 148)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Dark Surface (F12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic material (F21) (MLRA 127, 147)			_							
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (A11)  Thin Dark Surface (F13) (MLRA 147, 148)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Dark Surface (F12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic material (F21) (MLRA 127, 147)			_							
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (A11)  Thin Dark Surface (F13) (MLRA 147, 148)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Dark Surface (F12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic material (F21) (MLRA 127, 147)										
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (A11)  Thin Dark Surface (F13) (MLRA 147, 148)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Dark Surface (F12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic material (F21) (MLRA 127, 147)			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Thick Dark Surface (A11)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:			_							
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (A11)  Thin Dark Surface (F13) (MLRA 147, 148)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Dark Surface (F12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic material (F21) (MLRA 127, 147)										
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (A11)  Thin Dark Surface (F13) (MLRA 147, 148)  Depleted Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Dark Surface (F12)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic material (F21) (MLRA 127, 147)										
Histosol (A1)	¹Type: C=Co	ncentration, D=Depletion,	RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.	
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Type:  Type:  Tinin Dark Surface (S9) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 146, 147)  Piedmont Floodplain Soils (F19) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 146, 147)  Piedmont Floodplain Soils (F19) (MLRA 136, 122)  Med Parent Material (F12) (MLRA 136, 122)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Ir	ndicators:						Indicators	for Problematic Hydric	Soils <sup>3</sup> :
Black Histic (A3)	Histosol (A	<b>A1</b> )	Poly	yvalue Below	Surface	(S8) (MLR	A 147, 148)	2 cm M	uck (A10) (MLRA 147)	
Hydrogen Sulfide (A4)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N,  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Pepleted Matrix (S6)  Dark Surface (S7)  Popleted Dark Surface (F7)  Redox Depressions (F8)  Liron-Manganese Masses (F12) (LRR N, MLRA 136)  Liron-Manganese Masses (F12) (LRR N, MLRA 136)  Liron-Manganese Masses (F12) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Histic Epip	pedon (A2)							Prairie Redox (A16) (MLRA 147	7, 148)
Stratified Layers (A5) Redox Dark Surface (F6) Other (Explain in Remarks)  2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11) Redox Depressions (F8)  Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed):  Type:			Loa	my Gleyed M	latrix (F2)			Piedmo	nt Floodplain Soils (F19) (ML	RA 146, 147)
2 cm Muck (A10) (LRR N)	Hydrogen	Sulfide (A4)	Dep	oleted Matrix (	(F3)			Very Sh	nallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11) Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed): Type:	Stratified L	_ayers (A5)	Red	dox Dark Surf	ace (F6)			Other (E	Explain in Remarks)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic	2 cm Mucl	k (A10) (LRR N)	Dep	oleted Dark S	urface (F	7)				
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) — Piedmont Floodplain Soils (F19) (MLRA 148) — Sandy Gleyed Matrix (S4) — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Depleted B	Below Dark Surface (A11)	Red	dox Depressio	ons (F8)					
MLRA 147, 148)  — Sandy Gleyed Matrix (S4) — Red Parent Material (F21) (MLRA 127, 147)  — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Thick Dark	Surface (A12)	Iron	n-Manganese	Masses (	(F12) (LRF	R N, MLRA	136)		
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Red Parent Material (F21) (MLRA 127, 147)	Sandy Mu	cky Mineral (S1) (LRR N,	Um	bric Surface (	(F13) <b>(ML</b> I	RA 136, 12	2)			
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:			Pie	dmont Floodp	lain Soils	(F19) <b>(M</b> I	LRA 148)			
Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed):  Type:			Red	d Parent Mate	erial (F21)	(MLRA 12	7, 147)			
Dark Surface (S7)   **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed):  Type:										
Restrictive Layer (if observed):  Type:			3Indicators	of hydronh	vtic ven	etation a	nd wetlai	nd hydrology must be	nresent unless disturbed	d or problematic
Type:			maioatoro	or riyaropri	y lio voge	<del>station a</del>	na wena	T	proderit, unicoo diotarbec	a or problematio
				-				Hydric Soil Prese	ent? Yes	No X
Remarks:				<u> </u>				1,		

Project/Site: Clover Creek	City/County	: Breckinridge	Sampling Date: <u>07/18/2024</u>				
Applicant/Owner: EDP Renewables			Sampling Point: DP-17				
Investigator(s): KR MA	Sec	ction, Township, Range:	·				
Landform (hillside, terrace, etc.): Depression	Local relief (concave	e, convex, none): Concave	Slope %: 5				
Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 3		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?		explain in Remarks.)				
			.,				
Are Vegetation, Soil, or Hydrologys	///	re "Normal Circumstances" prese needed, explain any answers in					
Are Vegetation , Soil , or Hydrology r	naturally problematic? "	Heeded, explain any anomoro in	Nemans.				
SUMMARY OF FINDINGS – Attach site map showi	ing sampling point locations	s, transects, important features	s, etc.				
Hydrophytic Vegetation Present? Yes	No X Is the Sar	mpled Area					
	No X within a V	-	No_X_				
		ional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a sepa Dry Season	· ·						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (min					
Primary Indicators (minimum of one is required; check all the	hat apply)	Surface Soil Cracks (E Sparsely Vegetated C					
Surface Water (A1) Aquatic F	Fauna (B13)	Sparsely vegetated C					
High Water Table (A2)  True Aquatic Plants (B14)  Moss Trim Lines (B16)							
Saturation (A3) Hydrogen	n Sulfide Odor (C1)	Dry-Season Water Ta					
Water Marks (B1) Oxidized	Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)					
Sediment Deposits (B2) Presence	e of Reduced Iron (C4)	Saturation Visible on A					
Drift Deposits (B3) Recent Ire	on Reduction in Tilled Soils (C6)	Stunted or Stressed P					
Algal Mat or Crust (B4) Thin Mucl	ck Surface (C7)	Geomorphic Position					
Iron Deposits (B5) Other (Ex	xplain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)		Microtopographic Reli	ef (D4)				
Water-Stained Leaves (B9)		FAC-Neutral Test (D5					
Field Observations:							
Surface Water Present Yes No X	Depth (inches):						
Water Table Present Yes No X	Depth (inches):						
Saturation Present Yes No X	Depth (inches):	Wetland Hydrology Present?	Yes NoX_				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspect	ions), if available:					
Remarks:							

<b>VEGETATION</b> – Use scientific names of pla	Sampling Point: DP-17			
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,,
4.				Total Number of Dominant
				Species Across All Strata:1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC:0 (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10tai 00vci		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species0 x 3 =0
3		<del></del> -		FACU species 95 x 4 = 380
4				UPL species 5 x 5 = 25
5		<del></del> .		
6				Column Totals: 100 (A) 405 (B)
7				Prevalence Index = B/A = 4.05
	0			Hydrophytic Vegetation Indicators:
_		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Festuca arundinacea	95	Yes	FACU	
2. Asclepias tuberosa	5	No	UPL	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup>
4.				(Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	100			and greater than or equal to 3.26 it (1 iii) tail.
	:	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1
	,			

	ription: (Describe to th	e depth neede				tor or co	onfirm the absence of	of indicators.)	
Depth (inches)	Matrix Color (moist)	% Color	(moist)	x Feature %	es Type¹	Loc <sup>2</sup>	Texture	Remark	2
(IIICHES)	Color (moist)	/6 COIOI	(IIIOISI)	/0	туре	LUC	Texture		•
0-16	10YR 3/2	100					Loam		
_									
								1	
<del></del>								_	
¹Type: C=Co	ncentration, D=Depletion	on, RM=Reduce	ed Matrix, M	/IS=Masi	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.	
Hydric Soil II	ndicators:						Indicators	for Problematic Hydric	Soils <sup>3</sup> :
Histosol (A	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148	2 cm M	fuck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thir	n Dark Surfac	ce (S9) (M	ILRA 147, 1	148)	Coast F	Prairie Redox (A16) (MLRA 14	17, 148)
Black Hist	tic (A3)	Loa	my Gleyed M	1atrix (F2)	)		Piedmo	ont Floodplain Soils (F19) (Mi	_RA 146, 147)
Hydrogen	Sulfide (A4)	Dep	leted Matrix	(F3)			Very SI	hallow Dark Surface (TF12)	
Stratified L	Layers (A5)	Red	lox Dark Surf	ace (F6)			Other (	(Explain in Remarks)	
2 cm Mucl	k (A10) (LRR N)	Dep	leted Dark S	urface (F	7)				
Depleted I	Below Dark Surface (A11)	Red	lox Depressio	ons (F8)					
Thick Dark	k Surface (A12)	Iron	-Manganese	Masses	(F12) (LRF	R N, MLRA	136)		
Sandy Mu	icky Mineral (S1) (LRR N,	Uml	bric Surface (	(F13) <b>(ML</b>	RA 136, 12	2)			
MLRA 147,	148)	Pied	dmont Floodp	olain Soils	s (F19) <b>(M</b> I	LRA 148)			
Sandy Gle	eyed Matrix (S4)	Red	Parent Mate	erial (F21)	(MLRA 12	27, 147)			
Sandy Re	dox (S5)								
Stripped N	Matrix (S6)	2							
Dark Surfa		<sup>3</sup> Indicators	of hydroph	ytic veg	etation a	nd wetla	nd hydrology must be	e present, unless disturbe	d or problemation
	ayer (if observed):								
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No_X
Remarks:							L		

Project/Site: Clover Creek	City/County:	Breckinridge	Sampling Date: <u>07/18/2024</u>			
Applicant/Owner: EDP Renewables		State: Kent	Sampling Point: DP-18			
Investigator(s): KR MA	Sec	tion, Township, Range:	_			
Landform (hillside, terrace, etc.): Drainageway	Local relief (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?		explain in Remarks.)			
	•	re "Normal Circumstances" pres				
Are Vegetation, Soil, or Hydrology si	/16	needed, explain any answers in				
Are Vegetation, Soil, or Hydrology na	aturally problematic:		,			
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations	s, transects, important feature	s, etc.			
Hydrophytic Vegetation Present? Yes N	No X Is the Sar	mpled Area				
Hydric Soil Present? Yes N	No X within a V	Vetland? Yes	No X			
Wetland Hydrology Present? Yes N	No X If yes, opti	ional Wetland Site ID:				
Dry Season.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (min	nimum of two required)			
Primary Indicators (minimum of one is required; check all the	at apply)	Surface Soil Cracks (	· ·			
Surface Water (A1) Aquatic Fa		Sparsely vegetated C	Concave Surface (B8)			
High Water Table (A2) True Aquat	tic Plants (B14)	Moss Trim Lines (B16)				
Saturation (A3) Hydrogen S	Sulfide Odor (C1)	Dry-Season Water Table (C2)				
Water Marks (B1) Oxidized R	thizospheres on Living Roots (C3)					
Sediment Deposits (B2) Presence of	of Reduced Iron (C4)					
Drift Deposits (B3)	n Reduction in Tilled Soils (C6)					
Algal Mat or Crust (B4) Thin Muck	Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5) Other (Exp	lain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		Microtopographic Relief (D4)				
Water-Stained Leaves (B9)		FAC-Neutral Test (DS				
Field Observations:						
Surface Water Present Yes No _X	Depth (inches):					
Water Table Present Yes No X	Depth (inches):					
Saturation Present Yes No X	Depth (inches):	Wetland Hydrology Present?	? Yes No_X_			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, ae	erial photos, previous inspecti	ions), if available:				
Demode						
Remarks:						

<b>VEGETATION</b> – Use scientific names of plants	ants.			Sampling Point: DP-18
Tree Stratum (Plot size:30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
7				Prevalence Index worksheet:
	0	= Total Cover		Total 0/ Cover of
Sapling/Shrub Stratum (Plot size: 15 ft)	-	_ = Total Cover		
				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species100 x 4 =400
4				UPL species0 x 5 =0
5				Column Totals: 100 (A) 400 (B)
6				Prevalence Index = B/A = 4
7				Hydrophytic Vegetation Indicators:
	0	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				
1. Festuca arundinacea	100	Yes	FACU	2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Flovide supporting data in Nemarks of on a separate sheet)
5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.				
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
9.				
10				Tree – Woody plants 3 in. (7.6 cm) or more in
11				diameter at breast height (DBH), regardless of height.
12.				Sapling/shrub – Woody plants less than 3 in. DBH
	400			and greater than or equal to 3.28 ft (1 m) tall.
	100	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0			Vegetation Present? Yes No X
		= Total Cover		Lieselli: Les NO
Remarks: (Include photo numbers here or on a separate	rate sheet.)			

	ription: (Describe to th	e depth neede				tor or co	onfirm the absence of	of indicators.)	
Depth (inches)	Matrix Color (moist)	% Color	(moist)	x Feature %	es Type¹	Loc <sup>2</sup>	Texture	Remark	2
(IIICHES)	Color (moist)	/6 COIOI	(IIIOISI)	/0	туре	LUC	Texture		•
0-16	10YR 3/2	100					Loam		
_									
								1	
<del></del>								_	
¹Type: C=Co	ncentration, D=Depletion	on, RM=Reduce	ed Matrix, M	/IS=Masi	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.	
Hydric Soil II	ndicators:						Indicators	for Problematic Hydric	Soils <sup>3</sup> :
Histosol (A	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148	2 cm M	fuck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thir	n Dark Surfac	ce (S9) (M	ILRA 147, 1	148)	Coast F	Prairie Redox (A16) (MLRA 14	17, 148)
Black Hist	tic (A3)	Loa	my Gleyed M	1atrix (F2)	)		Piedmo	ont Floodplain Soils (F19) (Mi	_RA 146, 147)
Hydrogen	Sulfide (A4)	Dep	leted Matrix	(F3)			Very SI	hallow Dark Surface (TF12)	
Stratified L	Layers (A5)	Red	lox Dark Surf	ace (F6)			Other (	(Explain in Remarks)	
2 cm Mucl	k (A10) (LRR N)	Dep	leted Dark S	urface (F	7)				
Depleted I	Below Dark Surface (A11)	Red	lox Depressio	ons (F8)					
Thick Dark	k Surface (A12)	Iron	-Manganese	Masses	(F12) (LRF	R N, MLRA	136)		
Sandy Mu	icky Mineral (S1) (LRR N,	Uml	bric Surface (	(F13) <b>(ML</b>	RA 136, 12	2)			
MLRA 147,	148)	Pied	dmont Floodp	olain Soils	s (F19) <b>(M</b> I	LRA 148)			
Sandy Gle	eyed Matrix (S4)	Red	Parent Mate	erial (F21)	(MLRA 12	27, 147)			
Sandy Re	dox (S5)								
Stripped N	Matrix (S6)	2							
Dark Surfa		<sup>3</sup> Indicators	of hydroph	ytic veg	etation a	nd wetla	nd hydrology must be	e present, unless disturbe	d or problemation
	ayer (if observed):								
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No_X
Remarks:							L		

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 I	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 distr						
Are Vegetation , Soil , or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)  Dry Season.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)					
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)					
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)					
Saturation (A3) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)					
Water Marks (B1) Oxidized Rhizospheres on Li						
Sediment Deposits (B2) Presence of Reduced Iron (C						
Drift Deposits (B3) Recent Iron Reduction in Tille	ed Soils (C6) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present Yes No X Depth (inches	´ <del></del>					
Water Table Present Yes No X Depth (inches Saturation Present Yes No X Depth (inches						
Saturation Present Yes No X Depth (inches (includes capillary fringe)	S): Wetland Hydrology Present? Yes No_X					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						
remarks.						

Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
35	Yes	FAC	
		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
_			Total Number of Dominant
			Species Across All Strata:3 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/E
			Prevalence Index worksheet:
65	= Total Cover		Total % Cover of: Multiply by:
			OBL species 0 x 1 = 0
			FACW species 0 x 2 = 0
			FAC species 45 x 3 = 135
			FACU species 30 x 4 = 120
			UPL species 0 x 5 = 0
			Column Totals: 75 (A) 255 (E
			Prevalence Index = B/A = 3.4
			Hydrophytic Vegetation Indicators:
	= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
	.,	<b>5.0</b>	X 2 - Dominance Test is >50%
	Yes	FAC	3 - Prevalence Index is ≤3.0¹
			4 - Morphological Adaptations <sup>1</sup>
	-		(Provide supporting data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problema
			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.
=	= Total Cover		Herb – All herbaceous (non-woody) plants, regardles
			of size, and woody plants less than 3.28 ft tall.
_	-		Woody vines – All woody vines greater than 3.28 ft i
			height.
			Hydrophytic
	= Total Cover		Hydrophytic Vegetation Present? Yes X No
		35 Yes 30 Yes  65 = Total Cover  0 = Total Cover  10 Yes  10 = Total Cover	35

Matrix noist) %  4 100  , D=Depletion, RI	Color (moist)  M=Reduced Matrix, M	Features  % Type¹ Loc  S=Masked Sand Grain	Texture  Clay Loam	Remarks
4 100				INGINAL
	M=Reduced Matrix, M	S=Masked Sand Grain	Clay Loam	
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, Rf	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain		
, D=Depletion, RN	M=Reduced Matrix, M	S=Masked Sand Grain	<del></del> .	
, D=Depletion, RI	M=Reduced Matrix, M	 S=Masked Sand Grain		
, D=Depletion, RM	M=Reduced Matrix, M	S=Masked Sand Grain		
		o maonoa cana chan	s. <sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
			Indicators fo	or Problematic Hydric Soils³:
	Polyvalue Below	Surface (S8) (MLRA 147, 1	48) 2 cm Mud	ck (A10) (MLRA 147)
	Thin Dark Surface	e (S9) (MLRA 147, 148)	Coast Pra	airie Redox (A16) (MLRA 147, 148)
	Loamy Gleyed Ma	atrix (F2)	Piedmon	t Floodplain Soils (F19) (MLRA 146, 147)
	Depleted Matrix (I	F3)	Very Sha	allow Dark Surface (TF12)
	Redox Dark Surfa	ace (F6)	Other (Ex	xplain in Remarks)
N)	Depleted Dark Su	ırface (F7)		
urface (A11)	Redox Depression	ns (F8)		
2)	Iron-Manganese I	Masses (F12) (LRR N, MLI	A 136)	
S1) (LRR N,	Umbric Surface (F	F13) (MLRA 136, 122)		
	Piedmont Floodpl	lain Soils (F19) (MLRA 148	)	
54)	Red Parent Mater	rial (F21) (MLRA 127, 147)		
3	Indicators of hydrophy	tic vegetation and we	land hydrology must be n	present unless disturbed or problemat
	Thatcators of Hydrophy	7 tie vegetation and we	I	Tesent, unless distarbed of problemati
-				
			Hydric Soil Preser	nt? Yes NoX
u 2 3	rface (A11) ) 1) (LRR N, -)	Depleted Dark St.  Redox Depressio  Iron-Manganese  Umbric Surface (I Piedmont Floodpi Red Parent Mate  3Indicators of hydrophy	Depleted Dark Surface (F7)  frace (A11) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLR Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148 Red Parent Material (F21) (MLRA 127, 147)  3Indicators of hydrophytic vegetation and wet	Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Indicators of hydrophytic vegetation and wetland hydrology must be perved):

Project/Site: Clover Creek		City/County: Brecki	nridge	Sampling Date:07/18/2024		
Applicant/Owner: EDP Renewables			State: Kent	Sampling Point: DP-20		
Investigator(s): KR MA		Section, Tow	/nship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): Flat	Local re	elief (concave, convex,	none): Linear	Slope %: 1		
Subregion (LRR or MLRA): LRR N MLRA	•	Long:		Datum: WGS84		
	1120/1 Lat. 07.772274	Long.		Datum. VVOOT		
Soil Map Unit Name: uRobA			NWI classification:	1		
Are climatic / hydrologic conditions on the si		Yes		explain in Remarks.)		
Are Vegetation , Soil , or Hyd	drology significantly distur		al Circumstances" pres			
Are Vegetation , Soil , or Hyd	drology naturally problemate	atic? (If needed,	explain any answers ir	n Remarks.)		
SUMMARY OF FINDINGS - Attach	site map showing sampling po	int locations, transec	ts, important feature	s, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	ea			
Hydric Soil Present?	Yes No X	within a Wetland?		No_X_		
Wetland Hydrology Present?	Yes No X	If yes, optional Wet				
Dry Season						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (mi			
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Cracks (	(B6) Concave Surface (B8)		
Surface Water (A1)	Aquatic Fauna (B13)		Drainage Patterns (B			
High Water Table (A2)	True Aquatic Plants (B14)	Moss Trim Lines (B16)				
Saturation (A3)	Hydrogen Sulfide Odor (C1)					
Water Marks (B1)	Oxidized Rhizospheres on Livi					
Sediment Deposits (B2)	Presence of Reduced Iron (C4					
Drift Deposits (B3)	Recent Iron Reduction in Tilled	ed Soils (C6) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		Microtopographic Relief (D4)				
Water-Stained Leaves (B9)			FAC-Neutral Test (D	5)		
Field Observations:						
	No X Depth (inches):	<u> </u>				
	No X Depth (inches):	<b> </b>				
Saturation Present Yes	No X Depth (inches):	Wetland	d Hydrology Present?	? Yes No_X_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, prev	vious inspections), if a	vailable:			
Demada						
Remarks:						

<b>VEGETATION</b> – Use scientific names of pla	Sampling Point: DP-20			
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				
4.				Total Number of Dominant
5.				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)	-	_ = 10101 00101		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3		<del></del> -		FACU species 25 x 4 = 100
4				UPL species 75 x 5 = 375
5				· —
6		<u> </u>		Column Totals: 100 (A) 475 (B)
7				Prevalence Index = B/A = 4.75
	0			Hydrophytic Vegetation Indicators:
		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Zea mays	75	Yes	UPL	
2. Festuca arundinacea	25	Yes	FACU	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Frovide supporting data in Nemarks of on a separate sheet)
5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				
8		· · · · · · · · · · · · · · · · · · ·		Definitions of Vegetation Strata:
9.				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				<b>0</b>
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	100			and greater than or equal to 5.20 it (1 iii) tail.
00 %		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3		<u> </u>		
4				Hydrophytic
	0			Vegetation
		= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

	ription: (Describe to th	e depth neede				tor or co	onfirm the absence o	f indicators.)	
Depth (inches)	Matrix Color (moist)	% Color		Feature		Loc <sup>2</sup>	Toytura	Remarks	
(inches)	Color (moist)	% C0101	(moist)	%	Type <sup>1</sup>	LOC	Texture	Remarks	5
0-16	10YR 3/3	100					Loam	-	
¹Type: C=Co	ncentration, D=Depletic	on, RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Problematic Hydric	Soils <sup>3</sup> :
Histosol (A	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148	2 cm M	uck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thir	n Dark Surfac	e (S9) <b>(M</b>	ILRA 147, 1	148)	Coast F	Prairie Redox (A16) (MLRA 14	7, 148)
Black Hist	ic (A3)	Loa	my Gleyed M	latrix (F2)	)		Piedmo	ont Floodplain Soils (F19) <b>(M</b> L	.RA 146, 147)
Hydrogen	Sulfide (A4)	Dep	leted Matrix	(F3)			Very Sh	nallow Dark Surface (TF12)	
Stratified I	Layers (A5)	Red	lox Dark Surf	ace (F6)			Other (I	Explain in Remarks)	
2 cm Muc	k (A10) (LRR N)	Dep	leted Dark S	urface (F	7)				
Depleted I	Below Dark Surface (A11)	Red	lox Depression	ons (F8)					
	k Surface (A12)	Iron	-Manganese	Masses	(F12) (LRF	R N, MLRA	136)		
Sandy Mu	icky Mineral (S1) (LRR N,	Uml	bric Surface (	(F13) <b>(ML</b>	RA 136, 12	2)			
MLRA 147,	148)	Pied	dmont Floodp	lain Soils	s (F19) <b>(М</b> І	LRA 148)			
Sandy Gle	eyed Matrix (S4)	Red	Parent Mate	erial (F21)	(MLRA 12	27, 147)			
Sandy Re	dox (S5)								
Stripped N	Matrix (S6)								
Dark Surfa	ace (S7)	<sup>3</sup> Indicators	of hydroph	ytic veg	etation a	nd wetla	nd hydrology must be	present, unless disturbed	d or problemation
Restrictive L	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No_X
Remarks:							1		

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:				
	I relief (concave, convex, none): Linear Slope %: 1				
	Long: -86.464702 Datum: WGS84				
<del></del>	NWI classification:				
Soil Map Unit Name: St					
Are climatic / hydrologic conditions on the site typical for this time of year?	<del></del>				
Are Vegetation , Soil , or Hydrology significantly dis					
Are Vegetation , Soil , or Hydrology naturally proble	ematic? (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 X	Is the Sampled Area				
Hydric Soil Present?  Yes X No	within a Wetland? Yes No X				
Wetland Hydrology Present? Yes NoX	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)  Dry Season					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)				
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)				
Saturation (A3) Hydrogen Sulfide Odor (C1	Dry-Season Water Table (C2)				
Water Marks (B1) Oxidized Rhizospheres on					
Sediment Deposits (B2) Presence of Reduced Iron					
Drift Deposits (B3) Recent Iron Reduction in T					
Algal Mat or Crust (B4) Thin Muck Surface (C7)	X Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in Remarks)	, , , ,				
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)				
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present Yes No X Depth (inche	es):				
Water Table Present Yes No X Depth (inche	es):				
Saturation Present Yes No X Depth (inche	es): Wetland Hydrology Present? Yes No_X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:				

Sampling Point: DP-21

Tree Stratum (Plot size: 30 ft)	Absolute <u>% Cover</u>	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	25	Yes	FAC	Number of Dominant Species
2. Quercus rubra	20	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
3. Ulmus americana	10	No	FACW	
4				Total Number of Dominant Species Across All Strata: 5 (B)
5				
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
7				That Are OBL, FACW, or FAC: 40 (A/B)  Prevalence Index worksheet:
	55	T-1-1-0		T . 10/ 0 /
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = Total Cover		
4. Dhua aanallinuus	15	Yes	FACU	OBL species 0 x 1 = 0
		163	1 400	FACW species 10 x 2 = 20
				FAC species 40 x 3 = 120
4				FACU species60 x 4 =240
				UPL species0 x 5 =0
5 6				Column Totals:110 (A)380(B)
7.				Prevalence Index = B/A = 3.45
				Hydrophytic Vegetation Indicators:
	15	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				2 - Dominance Test is >50%
1. Vernonia angustifolia	25	Yes	FACU	
2. Toxicodendron radicans	15	Yes	FAC	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				<b>5</b>
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH
12				and greater than or equal to 3.28 ft (1 m) tall.
	40	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft)	· <del></del> ·	- Total Gover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1.				or orze, and weedy plante less than orze it tall.
2.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
3.				height.
4.				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
	;	= Total Cover		

	ription: (I		ne depth need				or or co	onfirm the absence of	indicators.)	
Depth (inches)	Color	Matrix (moist)	% Color		x Feature		Loc <sup>2</sup>	Texture	Remarks	
(inches)	Color	(moist)	% C0101	(moist)	<u>%</u>	Type <sup>1</sup>	LOC	rexture	Remarks	
0-16	10YR	4/4	95 10YR	4/6	5	С	M	Clay Loam		
					·					
					·					
¹Type: C=Co	oncentration	on, D=Depletion	on, RM=Reduc	ed Matrix, N	∕/S=Mas	ked Sand	Grains	. <sup>2</sup> Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil I	ndicators	S:						Indicators f	or Problematic Hydric Soils3:	
Histosol (	A1)		Pol	yvalue Below	Surface	(S8) (MLR	A 147, 148	) 2 cm Mu	ick (A10) (MLRA 147)	
Histic Epi	pedon (A2)		Thi	n Dark Surfa	ce (S9) <b>(M</b>	ILRA 147, 1	48)	Coast P	rairie Redox (A16) (MLRA 147, 148)	
Black His	tic (A3)		Loa	my Gleyed N	/latrix (F2)	)		Piedmor	nt Floodplain Soils (F19) (MLRA 146,	147)
Hydrogen	Sulfide (A	4)	De <sub>l</sub>	oleted Matrix	(F3)			Very Sha	allow Dark Surface (TF12)	
Stratified	Layers (A5	)	Red	dox Dark Sur	face (F6)			Other (E	xplain in Remarks)	
2 cm Muc	k (A10) (LR	RR N)	De <sub>l</sub>	oleted Dark S	Surface (F	7)				
Depleted	Below Darl	k Surface (A11)	X Re	dox Depressi	ons (F8)					
Thick Dar	k Surface (	(A12)	Iror	n-Manganese	Masses	(F12) (LRF	R N, MLRA	136)		
Sandy Mu	ucky Minera	al (S1) (LRR N,	Um	bric Surface	(F13) <b>(ML</b>	RA 136, 12	2)			
MLRA 147			Pie	dmont Flood	plain Soils	s (F19) <b>(M</b> I	RA 148)			
	eyed Matrix	(S4)	Red	d Parent Mate	erial (F21)	(MLRA 12	7, 147)			
Sandy Re										
	Matrix (S6)		<sup>3</sup> Indicators	of hydronh	vtic veg	etation a	nd wetla	nd hydrology must be	present, unless disturbed or pro	hlematic
Dark Surf		hoom to d\.	malcators	or Hydropi	iyuc vegi	Ctation a	na wetta	T	present, unless disturbed or pre	bicinatic.
Restrictive L		-								
				-					. V	
Depth (in	iches): _			-				Hydric Soil Prese	nt? Yes <u>X</u> No_	
Remarks:										

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:
-	relief (concave, convex, none): Concave Slope %: 10
	Long: -86.464338 Datum: WGS84
<u></u>	NWI classification:
Soil Map Unit Name: St	
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 dist	
Are Vegetation , Soil , or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling p	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Dry Season	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
High Water Table (A2)  True Aquatic Plants (B14)	Drainage Fatterns (B16)
Saturation (A3) Hydrogen Sulfide Odor (C1)	
Water Marks (B1) Oxidized Rhizospheres on L	
Sediment Deposits (B2) Presence of Reduced Iron (	
Drift Deposits (B3) Recent Iron Reduction in Till	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	X Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Water-Stained Leaves (B9)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present Yes No _X Depth (inches	s):
Water Table Present Yes No X Depth (inches	s):
Saturation Present Yes No X Depth (inches	s): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, presented by the stream gauge, monitoring well, aerial photos, presented by the stream gauge, monitoring well, aerial photos, presented by the stream gauge, monitoring well, aerial photos, presented by the stream gauge, monitoring well, aerial photos, presented by the stream gauge, monitoring well, aerial photos, presented by the stream gauge are stream gauge.	revious inspections), if available:

Sampling Point: DP-22

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3 4 5.				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
···				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15 ft)				OBL species30 x 1 =30
1. Salix nigra	30	Yes	OBL	FACW species 25 x 2 = 50
2				FAC species 50 x 3 = 150
3				FACU species 5 x 4 = 20
4				UPL species 0 x 5 = 0
5				
6				
7				Trevalence mack = B/A =
	30	Total Cayor		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)	<del></del>	= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Dichanthelium clandestinum	50	Yes	FAC	X 2 - Dominance Test is >50%
Cyperus strigosus	25	No	FACW	X 3 - Prevalence Index is ≤3.01
2 Vernania angustifolia		No	FACU	4 - Morphological Adaptations <sup>1</sup>
4			17100	(Provide supporting data in Remarks or on a separate sheet)
_				Problematic Hydrophytic Vegetation <sup>1</sup> (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
10				diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH
12				and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft )		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				of size, and woody plants less than 5.20 it tall.
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
				height.
4.				Hydrophytic
4.		-		Vegetation
	0	= Total Cover		Present? Yes X No No
Remarks: (Include photo numbers here or on a separ	rate sheet.)			
, , ,	,			

Profile Desc	cription: (Describe to	the dep	th needed to do	cument th	ne indicat	or or co	nfirm the absence of indic	ators.)
Depth	Matrix		Red	dox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/4	90	10YR 4/6	10		М		
0-16	1011 4/4	90	101K 4/0	10	С	IVI		
				_				
					· · · · · · · · · · · · · · · · · · ·			
					· ' <u></u>			
				_				
				_				<del>-</del>
¹Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix	, MS=Mas	sked Sand	Grains.	<sup>2</sup> Location: PL=Pore Li	ning, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Bel	ow Surface	(S8) (MLR	A 147, 148)	2 cm Muck (A1	0) (MLRA 147)
Histic Ep	pipedon (A2)		Thin Dark Sui				<del></del>	edox (A16) (MLRA 147, 148)
Black His		•	Loamy Gleye			,		dplain Soils (F19) (MLRA 146, 147)
	n Sulfide (A4)	•	Depleted Mat		,			Park Surface (TF12)
	Layers (A5)	•	Redox Dark S				Other (Explain	
	ck (A10) (LRR N)	•	Depleted Dar				0 (2.45.0	
	Below Dark Surface (A1	11)	X Redox Depres		')			
		'')	Iron-Mangane		(E12) (I BE	N MIDA 1	136/	
	rk Surface (A12)						130)	
	lucky Mineral (S1) (LRR N	١,	Umbric Surfac					
MLRA 14	leyed Matrix (S4)	•	Piedmont Flo					
	edox (S5)	•	Red Parent M	iateriai (FZ1	I) (MLRA 12	7, 147)		
	Matrix (S6)	<sup>3</sup> lr	ndicators of hydro	phytic vec	netation a	nd wetlar	nd hydrology must be prese	nt, unless disturbed or problematic.
Dark Sur	Layer (if observed):		, , , , , , ,	1 7	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
Type:	Layer (ii observed).							
								V
Depth (i	nches):						Hydric Soil Present?	YesX_ No
Remarks:								

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:
- ' -	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 distu	
Are Vegetation , Soil , or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present?  Yes  No X	within a Wetland? Yes No_X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Dry Season	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; check all that apply)	Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospheres on Liv	Clayiish Bullows (Co)
Sediment Deposits (B2) Presence of Reduced Iron (C-	Octuation visible on Actial imagery (65)
Prift Deposits (B3) Recent Iron Reduction in Tille	ed Soils (C6) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)  — Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present Yes No X Depth (inches)	
Water Table Present Yes No X Depth (inches)	
Saturation Present Yes No X Depth (inches) (includes capillary fringe)	):   Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pre	inspections), if available.
Remarks:	

Sampling Point: DP-23

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant Species Across All Strata: 4 (B)
6				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
	0	_ = Total Cover	•	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1. Rhus copallinum	25	Yes	FACU	FACW species 0 x 2 = 0
Diospyros virginiana	10	Yes	FAC	FAC species 35 x 3 = 105
3				FACU species 55 x 4 = 220
4				UPL species 0 x 5 = 0
5				Column Totals: 90 (A) 325 (B)
6				
7				Trevalence midex = B/A =
	35	Tatal Cavan		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)		= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
1 Vernonia angustifolia	30	Yes	FACU	2 - Dominance Test is >50%
	15	Yes	FAC	3 - Prevalence Index is ≤3.0¹
<u> </u>	-	No	FAC	4 - Morphological Adaptations <sup>1</sup>
Dichanthelium clandestinum	10		FAC	(Provide supporting data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				(_xp.a,
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH
12				and greater than or equal to 3.28 ft (1 m) tall.
	55	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft)		- Total Gover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0			Vegetation No. X
		= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Depth   Matrix   Redox Features	Color (moist)	Profile Descr	iption: (Describe to the	depth neede	ed to docur	nent the	indicat	tor or co	nfirm the absence of ir	ndicators.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  TLocation: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) 2 cm Muck (A10) (MLRA 147)  Histosol (A2) Thin Dark Surface (S9) (MLRA 147, 148) 2 cm Muck (A10) (MLRA 147, 148)  Black Histic (A3) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F18) (MLRA 147, 149)  Straffied Layers (A5) Redox Dark Surface (F6) 2 very Shallow Dark Surface (F17)  Depleted Below Dark Surface (A11) Redox Dark Surface (F7)  Depleted Below Dark Surface (A12) Ton-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Unbric Surface (F3) (MLRA 148, 122)  MLRA 147, 148) Pledmont Floodplain Soils (F18) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Mucky Mineral (S1) (LRR N, Unbric Surface (F13) (MLRA 136, 122)  Sandy Mucky Mineral (S1) (LRR N, Pledmont Floodplain Soils (F19) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Radox (S5) 3 indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Type:	"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Hydric Soil Indicators:  Histosoi (A1)	Depth	Matrix	_	Redox	c Feature	es				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.**  Hydric Soil Indicators:    Histosol (A1)	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Potential Indicators:**    Histosol Indicators:**   Histosol (A1)	(inches)	Color (moist) %	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:    Histosol (A1)	"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Pudric Soil Indicators:**    Histosol (A1)	0-16	10YR 3/2 100	)					Clay Loam		
Hydric Soil Indicators:    Histosol (A1)	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Loary Gleyed Matrix (F3)  Stratified Layers (A5)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Loary Gleyed Matrix (F3)  Stratified Layers (A5)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X										
Hydric Soil Indicators:    Histosol (A1)	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Loary Gleyed Matrix (F3)  Stratified Layers (A5)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,			_							
Histosol (A1)	Histosol (A1)	¹Type: C=Co	ncentration, D=Depletion,	RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Por	re Lining, M=Matrix.	
Histosol (A1)	Histosol (A1)	Hydric Soil Ir	ndicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :	
Histic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Redox Depleted Dark Surface (F12) (MLRA 148)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Red Parent Material (F21) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Type:  Type:  Type:	Histic Epipedon (A2)	Histosol (A	A1)	Pol	yvalue Below	Surface	(S8) (MLR	A 147, 148)	2 cm Muck	(A10) (MLRA 147)	
Black Histic (A3)	Black Histic (A3)	-	·								
Stratified Layers (A5) Redox Dark Surface (F6) Other (Explain in Remarks)  2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11) Redox Depressions (F8)  Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematical transfer of the problematical form of the problematical for	Stratified Layers (A5)										7)
2 cm Muck (A10) (LRR N)	2 cm Muck (A10) (LRR N)	Hydrogen	Sulfide (A4)	Dep	oleted Matrix (	(F3)			Very Shallo	ow Dark Surface (TF12)	
Depleted Below Dark Surface (A11) Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematical restrictive Layer (if observed): Type:	Depleted Below Dark Surface (A11) Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Diedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic rype: Depth (inches): Hydric Soil Present? Yes NoX X	Stratified L	_ayers (A5)	Red	dox Dark Surf	ace (F6)			Other (Exp	lain in Remarks)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic	Thick Dark Surface (A12)	2 cm Mucl	k (A10) (LRR N)	Dep	oleted Dark S	urface (F	7)				
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Type:	Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes NoX	Depleted B	Below Dark Surface (A11)	Red	dox Depressio	ons (F8)					
MLRA 147, 148)  — Sandy Gleyed Matrix (S4) — Red Parent Material (F21) (MLRA 127, 147)  — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7)  Restrictive Layer (if observed):  Type:	MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)	Thick Dark	Surface (A12)	Iron	n-Manganese	Masses (	(F12) (LRF	R N, MLRA	136)		
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:	Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)	Sandy Mu	cky Mineral (S1) (LRR N,	Um	bric Surface (	(F13) <b>(ML</b> I	RA 136, 12	2)			
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:	Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No_X	MLRA 147,	148)	Pie	dmont Floodp	lain Soils	(F19) (MI	LRA 148)			
Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed):  Type: Depth (inches): Type:			Red	d Parent Mate	erial (F21)	(MLRA 12	7, 147)			
Dark Surface (S7)   **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed):  Type:	Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  De										
Restrictive Layer (if observed):  Type:	Restrictive Layer (if observed):   Type:	Stripped N	Matrix (S6)	3Indiantoro	of budroph	vtio vog	atation a	nd watla	ad bydrology must be ar	acent unless disturbed or probl	lomotio
Type:	Type:			mulcators	or Hydroph	ylic vege	etation a	nu wellal	The flydrology fridst be pro	esent, unless disturbed or probl	lemanc
	Depth (inches): No_X										
Depth (inches):		_			-						<b>,</b>
	Remarks:	Depth (in	ches):		-				Hydric Soil Present	? Yes No_/	<u>^</u>

Project/Site: Clover Creek	Ci	ity/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 relie	f (concave, convex, none): Linear	Slope %: 1			
Subregion (LRR or MLRA): LRR N MLRA 12		Long: -86.466881	Datum: WGS84			
Soil Map Unit Name: ZaC2	<u> </u>	NWI classification:				
<u></u>	unical for this time of warm?		avalaia ia Damanta )			
Are climatic / hydrologic conditions on the site ty		<del></del>	explain in Remarks.)			
Are Vegetation , Soil , or Hydrol		Alfanon de de combelo como como de				
Are Vegetation , Soil , or Hydrol	ogy naturally problemation	(If needed, explain any answers i	n Remarks.)			
SUMMARY OF FINDINGS – Attach site	e map showing sampling point	locations, transects, important feature	es, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
' ' '		within a Wetland? Yes	No_X_			
		If yes, optional Wetland Site ID:				
Dry Season						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)			
Primary Indicators (minimum of one is required	d; check all that apply)	Surface Soil Cracks				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely vegetated Drainage Patterns (E	Concave Surface (B8)			
High Water Table (A2)	True Aquatic Plants (B14)	Moss Trim Lines (B1				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Dry-Season Water T	·			
Water Marks (B1)	Oxidized Rhizospheres on Living					
Sediment Deposits (B2)	Presence of Reduced Iron (C4)					
Drift Deposits (B3)	Recent Iron Reduction in Tilled So					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D:	` ′			
Inundation Visible on Aerial Imagery (B7)		Microtopographic Re				
Water-Stained Leaves (B9)		FAC-Neutral Test (D				
Field Observations:						
Surface Water Present Yes						
Water Table Present Yes	No X Depth (inches):					
Saturation Present Yes	No X Depth (inches):	Wetland Hydrology Present	? Yes <u>No X</u>			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previou	us inspections), if available:				
Remarks:						

Sampling Point: DP-24

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
Acer rubrum     Diospyros virginiana	20	Yes Yes	FAC FAC	Number of Dominant Species
Quercus rubra				That Are OBL, FACW, or FAC:4 (A)
4.				Total Number of Dominant Species Across All Strata:5 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:80(A/B)
·· -				Prevalence Index worksheet:
	60	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species0 x 1 =0
Diospyros virginiana	20	Yes	FAC	FACW species 0 x 2 = 0
2			<del></del>	FAC species 75 x 3 = 225
3				FACU species 20 x 4 = 80
4				UPL species 0 x 5 = 0
5				Column Totals: 95 (A) 305 (B)
6				Prevalence Index = B/A = 3.21
7				Hydrophytic Vegetation Indicators:
	20	= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				<u> </u>
1. Toxicodendron radicans	15	Yes	FAC	X 2 - Dominance Test is >50%
2		-		3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				(
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	15	Tatal Cavan		
Woody Vine Stratum (Plot size: 30 ft )		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1			<del></del>	Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic Vegetation
	0	= Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
(	,			

	ription: (Describe to th	ne depth neede				tor or co	onfirm the absence o	f indicators.)	
Depth (inches)	Matrix Color (moist)	% Color	(moist)	Feature %	es Type¹	Loc <sup>2</sup>	Texture	Remarks	•
(Inches)	Color (moist)	76 C0101	(IIIOISI)	70	туре	LOC	Texture	Remarks	<u> </u>
0-16	10YR 3/3	100					Loam		
								-	
_									
								-	
¹Type: C=Co	ncentration, D=Depletion	on, RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=I	Pore Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators	for Problematic Hydric	Soils <sup>3</sup> :
Histosol (A	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm M	uck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thir	Dark Surfac	e (S9) (M	ILRA 147, 1	148)	Coast F	Prairie Redox (A16) (MLRA 14	7, 148)
Black Hist	tic (A3)	Loa	my Gleyed M	latrix (F2)	)		Piedmo	ont Floodplain Soils (F19) (ML	RA 146, 147)
Hydrogen	Sulfide (A4)	Dep	leted Matrix	(F3)			Very Sh	nallow Dark Surface (TF12)	
Stratified I	Layers (A5)	Red	ox Dark Surf	ace (F6)			Other (I	Explain in Remarks)	
2 cm Muc	k (A10) (LRR N)	Dep	leted Dark S	urface (F	7)				
Depleted I	Below Dark Surface (A11)	Red	ox Depressio	ons (F8)					
Thick Darl	k Surface (A12)	Iron	-Manganese	Masses	(F12) (LRF	R N, MLRA	136)		
Sandy Mu	icky Mineral (S1) (LRR N,	Uml	oric Surface (	(F13) <b>(ML</b>	RA 136, 12	2)			
MLRA 147,	148)	Pied	dmont Floodp	lain Soils	s (F19) <b>(M</b> I	LRA 148)			
Sandy Gle	eyed Matrix (S4)	Red	Parent Mate	erial (F21)	(MLRA 12	7, 147)			
Sandy Re	dox (S5)								
Stripped N	Matrix (S6)	2							
Dark Surfa		Indicators	of hydroph	ytic veg	etation a	nd wetla	nd hydrology must be	present, unless disturbe	d or problemation
	ayer (if observed):								
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No_X
Remarks:							L		

City/County: Breckinridge Sampling Date: 07/17/2024
State: Kent Sampling Point: DP-25
Section, Township, Range:
relief (concave, convex, none): Linear Slope %: 1
Long: -86.465409 Datum: WGS84
NWI classification:
<del></del>
turbed? Are "Normal Circumstances" present? Yes X No
ematic? (If needed, explain any answers in Remarks.)
point locations, transects, important features, etc.
Is the Sampled Area
within a Wetland? Yes No X
If yes, optional Wetland Site ID:
Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Operatory regulated extractor curricles (EG)
Moss Trim Lines (B16)
Dry-Season Water Table (C2)
Living Roots (C3) Crayfish Burrows (C8)
(C4) Saturation Visible on Aerial Imagery (C9)
lled Soils (C6) Stunted or Stressed Plants (D1)
X Geomorphic Position (D2)
Shallow Aquitard (D3)
Microtopographic Relief (D4)
FAC-Neutral Test (D5)
s):
s): S): Wetland Hydrology Present? Yes No X
S):   Wetland Hydrology Present? Yes No_X
7,
revious inspections), if available:
7,
) L (Vill

Sampling Point: DP-25

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	35	Yes	FACU	Number of Dominant Species
2. Diospyros virginiana	20	Yes	FAC	That Are OBL, FACW, or FAC: 3 (A)
3. Acer rubrum	15	No	FAC	
Ulmus americana  5.		No	FACW	Total Number of Dominant Species Across All Strata:4 (B)
				Percent of Dominant Species
_				That Are OBL, FACW, or FAC: (A/B)
<i>1.</i>				Prevalence Index worksheet:
	80	_ = Total Cover	•	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1. Acer rubrum	20	Yes	FAC	FACW species 10 x 2 = 20
2				FAC species 85 x 3 = 255
3				
4				
5				UPL species0 x 5 =0
6				Column Totals: 130 (A) 415 (B)
7				Prevalence Index = B/A = 3.19
	20			Hydrophytic Vegetation Indicators:
5.0		= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				X 2 - Dominance Test is >50%
1. Toxicodendron radicans	30	Yes	FAC	- 3 - Prevalence Index is ≤3.0¹
2				_
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				Droblematic Lindraphytic Venetation (Fynicia)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				Continuo (abrush - Waadu planta laga than 3 in DDL)
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	30	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft )		- Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				or size, and woody plants less than 5.20 it tail.
2.				Woody vines – All woody vines greater than 3.28 ft in
3.				height.
4				Hydrophytic
T				Vegetation
	0	= Total Cover		Present? Yes X No No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Profile Descr	iption: (Describe to the	depth neede	ed to docur	nent the	indicat	tor or co	nfirm the absence o	f indicators.)	
Depth	Matrix	_	Redox	c Feature	es				
(inches)	Color (moist) %	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10YR 4/4 100	)					Loam		
								_	
					'				
		_							
		_							
¹Type: C=Co	ncentration, D=Depletion,	RM=Reduce	ed Matrix, M	1S=Masl	ced Sand	d Grains.	<sup>2</sup> Location: PL=F	ore Lining, M=Matrix.	
Hydric Soil Ir	ndicators:						Indicators	for Problematic Hydric S	Soils³:
Histosol (A	A1)	Pol	yvalue Below	Surface	(S8) (MLR	A 147, 148)	2 cm Mi	uck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thir	n Dark Surfac	e (S9) <b>(M</b>	LRA 147, 1	148)	Coast P	Prairie Redox (A16) (MLRA 147	', 148)
Black Hist	ic (A3)	Loa	my Gleyed M	latrix (F2)			Piedmo	nt Floodplain Soils (F19) (MLI	RA 146, 147)
Hydrogen	Sulfide (A4)	Dep	oleted Matrix (	(F3)			Very Sh	nallow Dark Surface (TF12)	
Stratified L	ayers (A5)	Red	dox Dark Surf	ace (F6)			Other (E	Explain in Remarks)	
2 cm Mucl	(A10) (LRR N)		oleted Dark S		7)				
-	Below Dark Surface (A11)		dox Depression						
	Surface (A12)		-Manganese				136)		
	cky Mineral (S1) (LRR N,		bric Surface (						
MLRA 147,			dmont Floodp						
Sandy Re	eyed Matrix (S4)	Rec	d Parent Mate	enai (FZ1)	(MLRA 12	27, 147)			
Stripped N									
Dark Surfa		3Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must be	present, unless disturbed	or problematic
	ayer (if observed):								
Type: _			_						
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No_X
Remarks:	<del></del>						1		

roject/Site: Clover Creek City/County: Breckinridge Sampling Date: 07/17/20							
Applicant/Owner: EDP Renewables  State: Kent Sampling Point: Dp.							
Investigator(s): KR MA Section, Township, Range:							
Landform (hillside, terrace, etc.): Flat Loca	al relief (concave, convex, none): Linear Slope %: 1						
	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?	<del></del>						
Are Vegetation , Soil , or Hydrology significantly dis							
Are Vegetation , Soil , or Hydrology naturally problem	ematic? (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 X No	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No_X_						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Dry season							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)							
Surface Water (A1)  Aquatic Fauna (B13)  Drainage Patterns (B10)							
High Water Table (A2)  True Aquatic Plants (B14)  Moss Trim Lines (B16)							
Saturation (A3)  Hydrogen Sulfide Odor (C1)  Dry-Season Water Table (C2)							
Water Marks (B1)  Oxidized Rhizospheres on Living Roots (C3)  Crayfish Burrows (C8)							
Sediment Deposits (B2) Presence of Reduced Iron							
Drift Deposits (B3) Recent Iron Reduction in T							
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)						
Iron Deposits (B5) Other (Explain in Remarks	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)						
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present Yes No _X Depth (inche	es):						
Water Table Present Yes No X Depth (inche	es):						
Saturation Present Yes No X Depth (inche	es): Wetland Hydrology Present? Yes No_X						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	orevious inspections), if available:						
Remarks:							

<b>VEGETATION</b> – Use scientific names of p	olants.			Sampling Point: Dp-26
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	30	Yes	FAC	
Diospyros virginiana	10	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3. Quercus rubra	10	No	FACU	
4				Total Number of Dominant Species Across All Strata: 4 (B)
5				Species Across Air Strata.
6				Percent of Dominant Species
7				That Are OBL, FACW, or FAC: 75 (A/B)
	50			Prevalence Index worksheet:
0 11 (0) 1 0 (0) (0) (0)		_= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		.,	<b>510</b>	OBL species0 x 1 =0
1. Acer rubrum	30	Yes	FAC	FACW species 0 x 2 = 0
2				FAC species110 x 3 =330
3				FACU species 10 x 4 = 40
4				UPL species 60 x 5 = 300
5				Column Totals: 180 (A) 670 (B)
6				Prevalence Index = B/A = 3.72
7				
	30	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)		- rotal covol		1 - Rapid Test for Hydrophytic Vegetation
1. Euonymus hederaceus	60	Yes	UPL	X 2 - Dominance Test is >50%
2. Toxicodendron radicans	40	Yes	FAC	3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup>
4.				(Provide supporting data in Remarks or on a separate sheet)
5.				Problematic Hydrophytic Vegetation¹ (Explain)
6.				
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
9.				
10.				Tree – Woody plants 3 in. (7.6 cm) or more in
11.				diameter at breast height (DBH), regardless of height.
12.				Sapling/shrub – Woody plants less than 3 in. DBH
	100			and greater than or equal to 3.28 ft (1 m) tall.
	:	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0 .	= Total Cover		Vegetation   Present?   Yes   X   No
		- Total Cover		
Pomorko: (Ingludo photo numboro horo er en a con	arata abaat \			
Remarks: (Include photo numbers here or on a sep	arate sneet.)			

Profile Descr	iption: (Describe to the	depth neede	ed to docur	nent the	indicat	tor or co	nfirm the absence o	f indicators.)	
Depth	Matrix	_	Redox	c Feature	es				
(inches)	Color (moist) %	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10YR 4/4 100	)					Loam		
								_	
					' <u> </u>				
		_							
		_							
¹Type: C=Co	ncentration, D=Depletion,	RM=Reduce	ed Matrix, M	1S=Masl	ced Sand	d Grains.	<sup>2</sup> Location: PL=F	ore Lining, M=Matrix.	
Hydric Soil Ir	ndicators:						Indicators	for Problematic Hydric S	Soils³:
Histosol (A	A1)	Pol	yvalue Below	Surface	(S8) (MLR	A 147, 148)	2 cm Mi	uck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thir	n Dark Surfac	e (S9) <b>(M</b>	LRA 147, 1	148)	Coast P	Prairie Redox (A16) (MLRA 147	', 148)
Black Hist	ic (A3)	Loa	my Gleyed M	latrix (F2)			Piedmo	nt Floodplain Soils (F19) (MLI	RA 146, 147)
Hydrogen	Sulfide (A4)	Dep	oleted Matrix (	(F3)			Very Sh	nallow Dark Surface (TF12)	
Stratified L	ayers (A5)	Red	dox Dark Surf	ace (F6)			Other (E	Explain in Remarks)	
2 cm Mucl	(A10) (LRR N)		oleted Dark S		7)				
-	Below Dark Surface (A11)		dox Depression						
	Surface (A12)		-Manganese				136)		
	cky Mineral (S1) (LRR N,		bric Surface (						
MLRA 147,			dmont Floodp						
Sandy Re	eyed Matrix (S4)	Rec	d Parent Mate	enai (FZ1)	(MLRA 12	27, 147)			
Stripped N									
Dark Surfa		3Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must be	present, unless disturbed	or problematic
	ayer (if observed):								
Type: _			_						
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No_X
Remarks:	<del></del>						1		

Project/Site: Clover Creek	City/C	ounty: 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 (co	ncave, convex, none): Concave	Slope %: 2				
Subregion (LRR or MLRA): LRR N MLRA 120	DA Lat: 37.749841	Long: -86.45981	Datum: WGS84				
Soil Map Unit Name: RsD2	_	NWI classification:					
Are climatic / hydrologic conditions on the site typ	nical for this time of year?		, explain in Remarks.)				
• •	·	Are "Normal Circumstances" pre	.,				
Are Vegetation, Soil, or Hydrolog		(If needed, explain any answers					
Are Vegetation , Soil , or Hydrolog			•				
SUMMARY OF FINDINGS – Attach site r	nap showing sampling point loca	tions, transects, important feature	es, etc.				
Hydrophytic Vegetation Present? Ye	es No_X_ Is th	e Sampled Area					
Hydric Soil Present? Ye	es No X with	in a Wetland? Yes	NoX				
Wetland Hydrology Present? Ye	es No_X_ If ye	s, optional Wetland Site ID:					
Dry season.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (m	inimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)  — Surface Soil Cracks (B6)							
Sparsely Vegetated Concave Surface (B8)  Surface Water (A1)  Aquatic Fauna (B13)  Drainage Patterns (B10)							
High Water Table (A2)  True Aquatic Plants (B14)							
Saturation (A2) Hydrogen Sulfide Odor (C1)							
Water Marks (R1) Ovidized Phizospheres on Living Poets (C2)							
Crayfish Burrows (C8)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C						
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position					
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D					
Inundation Visible on Aerial Imagery (B7)		Microtopographic Ro					
Water-Stained Leaves (B9)		FAC-Neutral Test (D					
Field Observations:			·				
Surface Water Present Yes N	lo X Depth (inches):	_					
Water Table Present Yes N		_					
Saturation Present Yes N	lo X Depth (inches):	_ Wetland Hydrology Present	? Yes No X				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous in	spections), if available:					
Remarks:							

<b>VEGETATION</b> – Use scientific names of plants	ants.			Sampling Point: DP-27
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant
4				Species Across All Strata:3 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 33 (A/B)
7				Prevalence Index worksheet:
	0	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1. Acer rubrum	30	Yes	FAC	FACW species 0 x 2 =0
2				FAC species 30 x 3 = 90
3				FACU species 30 x 4 = 120
4				UPL species 30 x 5 = 150
5				
6				Column Totals: 90 (A) 360 (B)
7				Prevalence index = B/A =
	30	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)	·	= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
1. Euonymus hederaceus	30	Yes	UPL	2 - Dominance Test is >50%
2. Eupatorium capillifolium	30	Yes	FACU	3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup>
4.				(Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation¹ (Explain)
6				
7.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				<b>- W - - - - - - - - - -</b>
10				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	60	T O		
Woody Vine Stratum (Plot size: 30 ft)		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
, , , , , , , , , , , , , , , , , , , ,				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2 3				height.
4				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

Depth   Matrix   Redox Features	Color (moist)	Profile Descr	iption: (Describe to the	depth neede	ed to docur	nent the	indicat	tor or co	nfirm the absence of ir	ndicators.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  TLocation: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) 2 cm Muck (A10) (MLRA 147)  Histosol (A2) Thin Dark Surface (S9) (MLRA 147, 148) 2 cm Muck (A10) (MLRA 147, 148)  Black Histic (A3) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F18) (MLRA 147, 149)  Straffied Layers (A5) Redox Dark Surface (F6) 2 very Shallow Dark Surface (F17)  Depleted Below Dark Surface (A11) Redox Dark Surface (F7)  Depleted Below Dark Surface (A12) Ton-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Unbric Surface (F3) (MLRA 148, 122)  MLRA 147, 148) Pledmont Floodplain Soils (F18) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Mucky Mineral (S1) (LRR N, Unbric Surface (F13) (MLRA 136, 122)  Sandy Mucky Mineral (S1) (LRR N, Pledmont Floodplain Soils (F19) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Radox (S5) 3 indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Type:	"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Hydric Soil Indicators:  Histosoi (A1)	Depth	Matrix	_	Redox	c Feature	es				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.**  Hydric Soil Indicators:    Histosol (A1)	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Potential Indicators:**    Histosol Indicators:**   Histosol (A1)	(inches)	Color (moist) %	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:    Histosol (A1)	"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Pudric Soil Indicators:**    Histosol (A1)	0-16	10YR 3/2 100	)					Clay Loam		
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Loary Gleyed Matrix (F3)  Stratified Layers (A5)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Loary Gleyed Matrix (F3)  Stratified Layers (A5)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Popleted Matrix (F3)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Coast Prairie Redox (A16) (MLRA 147, 148)  Perdomont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147, 148)  Peldmont Floodplain Soils (F19) (MLRA 136, 122)  MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Bandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Peldmont Floodplain Soils (F19) (MLRA 127, 147)  Hydric Soil Present?  Yes  No  X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,			_							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 147, 148)  Black Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Communic (A10) (LRR N)  Depleted Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Loary Gleyed Matrix (F3)  Stratified Layers (A5)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Coast Prairie Redox (A16) (MLRA 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Wery Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  MLRA 147, 148)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present? Yes No X										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,										
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  2 cm Muck (A10) (LRR N)  Depleted Matrix (F3)  Other (Explain in Remarks)  Polyvalue Below Surface (F6)  Depleted Matrix (F3)  Other (Explain in Remarks)  Thick Dark Surface (A11)  Redox Dark Surface (F6)  Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Dark Surface (F6)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  MLRA 147, 148)  MICRA 148, 148, 148, 148, 148, 148, 148, 148,			_							
Histosol (A1)	Histosol (A1)	¹Type: C=Co	ncentration, D=Depletion,	RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Por	re Lining, M=Matrix.	
Histosol (A1)	Histosol (A1)	Hydric Soil Ir	ndicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :	
Histic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 147, 148)  Very Shallow Dark Surface (TF12)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Redox Depleted Dark Surface (F12) (MLRA 148)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Red Parent Material (F21) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Type:  Type:  Type:	Histic Epipedon (A2)	Histosol (A	A1)	Pol	yvalue Below	Surface	(S8) (MLR	A 147, 148)	2 cm Muck	(A10) (MLRA 147)	
Black Histic (A3)	Black Histic (A3)	-	·								
Stratified Layers (A5) Redox Dark Surface (F6) Other (Explain in Remarks)  2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11) Redox Depressions (F8)  Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5)  Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematical transfer of the problematical form of the problematical for	Stratified Layers (A5)										7)
2 cm Muck (A10) (LRR N)	2 cm Muck (A10) (LRR N)	Hydrogen	Sulfide (A4)	Dep	oleted Matrix (	(F3)			Very Shallo	ow Dark Surface (TF12)	
Depleted Below Dark Surface (A11) Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemation of the problemation o	Depleted Below Dark Surface (A11) Redox Depressions (F8) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Diedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic rype: Depth (inches): Hydric Soil Present? Yes NoX X	Stratified L	_ayers (A5)	Red	dox Dark Surf	ace (F6)			Other (Exp	lain in Remarks)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic	Thick Dark Surface (A12)	2 cm Mucl	k (A10) (LRR N)	Dep	oleted Dark S	urface (F	7)				
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:  Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147)  Type:	Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes NoX	Depleted B	Below Dark Surface (A11)	Red	dox Depressio	ons (F8)					
MLRA 147, 148)  — Sandy Gleyed Matrix (S4) — Red Parent Material (F21) (MLRA 127, 147)  — Sandy Redox (S5) — Stripped Matrix (S6) — Dark Surface (S7)  Restrictive Layer (if observed):  Type:	MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)	Thick Dark	Surface (A12)	Iron	n-Manganese	Masses (	(F12) (LRF	R N, MLRA	136)		
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:	Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147)  Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)	Sandy Mu	cky Mineral (S1) (LRR N,	Um	bric Surface (	(F13) <b>(ML</b> I	RA 136, 12	2)			
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type:	Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No_X	MLRA 147,	148)	Pie	dmont Floodp	lain Soils	(F19) (MI	LRA 148)			
Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed):  Type:	Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed):  Type: Depth (inches): Type:			Red	d Parent Mate	erial (F21)	(MLRA 12	7, 147)			
Dark Surface (S7)   **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic restrictive Layer (if observed):  Type:	Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  De										
Restrictive Layer (if observed):  Type:	Restrictive Layer (if observed):   Type:	Stripped N	Matrix (S6)	3Indiantoro	of budroph	vtio vog	atation a	nd watla	ad bydrology must be ar	acent unless disturbed or probl	lomotio
Type:	Type:			mulcators	or Hydroph	ylic vege	etation a	nu wellal	The flydrology fridst be pro	esent, unless disturbed or probl	lemanc
	Depth (inches): No_X										
Depth (inches):		_			-						<b>,</b>
	Remarks:	Depth (in	ches):		-				Hydric Soil Present	? Yes No_/	<u>^</u>

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.)						
	<del></del>						
Are Vegetation, Soil, or Hydrology significantly distributed in the control of	(If a saded explain any analysis Demands)						
Are Vegetation, Soil, or Hydrology naturally probler	mano:						
SUMMARY OF FINDINGS – Attach site map showing sampling p	oint locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X_	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No X						
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:						
Dry season							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)						
Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10)							
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)						
Saturation (A3) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)							
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8)							
Sediment Deposits (B2) Presence of Reduced Iron (C	Gaturation visible on Acrial imagery (65)						
Drift Deposits (B3) Recent Iron Reduction in Till	ed Soils (C6) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks)	Geomorphic Position (D2)						
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)						
Water-Stained Leaves (B9)	Microtopographic Relief (D4) FAC-Neutral Test (D5)						
Field Observations:	I AO-Neutral Fest (BO)						
Surface Water Present Yes No X Depth (inches	s):						
Water Table Present Yes No X Depth (inches	s):						
Saturation Present Yes No X Depth (inches	S): Wetland Hydrology Present? Yes No X						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:						
Remarks:							

<b>VEGETATION</b> – Use scientific names of p	lants.			Sampling Point: DP-28
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 1 (A)
3				
4.				Total Number of Dominant
			•	Species Across All Strata: 2 (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 50 (A/B)
7				Prevalence Index worksheet:
	0	= Total Cover		Total 0/ Cover of
Sapling/Shrub Stratum (Plot size: 15 ft)		_= Total Cover		
				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species 30 x 3 = 90
3				FACU species 30 x 4 = 120
4				
5				
6				Column Totals: 65 (A) 235 (B)
7				Prevalence Index = B/A = 3.62
			•	Hydrophytic Vegetation Indicators:
		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				
1. Dichanthelium clandestinum	30	Yes	FAC	_ 2 - Dominance Test is >50%
2. Festuca arundinacea	30	Yes	FACU	3 - Prevalence Index is ≤3.0¹
3. Glycine max	5	No	UPL	4 - Morphological Adaptations <sup>1</sup>
				(Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5	<u> </u>			(_x,pia,
6				
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree Meady plants 2 in (7.6 am) or more in
10				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				diameter at broadt height (BBH), regardless of height.
12.			_	Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
	65	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft )				of size, and woody plants less than 3.28 ft tall.
1				
2.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
3.				neight.
4.				Hydrophytic
T				Vegetation
	0	= Total Cover		Present? Yes No X
Describer (Include these arresholds have an arrest				
Remarks: (Include photo numbers here or on a sepa	irate sneet.)			

	ription: (Describe to the	e depth neede				tor or co	nfirm the absence	of indicators.)	
Depth (inches)	Matrix	O/ Color		Feature		1002	Toytura	D	lomorko
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks
0-16	10YR 3/2 1	100					Loam		
		,							
		,							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Reduce	d Matrix, N	IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Ma	atrix.
Hydric Soil I	ndicators:						Indicators	for Problematic	Hydric Soils³:
Histosol (	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm M	Muck (A10) (MLRA 147	)
Histic Epi	pedon (A2)		Dark Surfac					Prairie Redox (A16) (	MLRA 147, 148)
Black Hist	tic (A3)	Loai	my Gleyed M	latrix (F2)	)		Piedm	ont Floodplain Soils (	F19) (MLRA 146, 147)
	Sulfide (A4)		leted Matrix (					Shallow Dark Surface	
	Layers (A5)		ox Dark Surf					(Explain in Remarks)	,
	k (A10) (LRR N)		leted Dark Si		7)			,	
	Below Dark Surface (A11)		ox Depressio		,				
	k Surface (A12)		-Manganese		(F12) (LRF	R N, MLRA	136)		
	icky Mineral (S1) (LRR N,		oric Surface (				,		
MLRA 147,			lmont Floodp						
	eyed Matrix (S4)		Parent Mate						
Sandy Re	dox (S5)			,	•	, ,			
	Matrix (S6)								
Dark Surf		<sup>3</sup> Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must be	e present, unless d	isturbed or problemati
	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Pres	sent? Yes	NoX_
Remarks:									

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:							
	relief (concave, convex, none): Concave Slope %: 3							
	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 dist	<del></del>							
Are Vegetation, Soil, or Hydrology naturally proble	(Kanadada ayalah ayalah ayayan in Baradka)							
SUMMARY OF FINDINGS – Attach site map showing sampling p								
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area							
Hydric Soil Present? Yes No X	within a Wetland? Yes No X							
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:							
Dry season.								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)								
Surface Water (A1)  Aquatic Fauna (B13)  Drainage Patterns (B10)								
High Water Table (A2)  True Aquatic Plants (B14)  Moss Trim Lines (B16)								
Saturation (A3) Hydrogen Sulfide Odor (C1)								
Water Marks (B1) Oxidized Rhizospheres on Living Roots (C3) Crayfish Burrows (C8)								
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Saturation Visible on Aerial Imagery (C9)								
Drift Deposits (B3) Recent Iron Reduction in Til	ed Soils (C6) Stunted or Stressed Plants (D1)							
Algal Mat or Crust (B4) Thin Muck Surface (C7)	X Geomorphic Position (D2)							
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)							
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)							
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present Yes No X Depth (inches	s):							
Water Table Present Yes No _X Depth (inches	s):							
Saturation Present Yes No X Depth (inches	S): Wetland Hydrology Present? Yes No_X							
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, processes of the proc	evious inspections), if available:							

Sampling Point: DP-29

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant Species Across All Strata: (B)
6				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species0 x 1 =0
1. Acer rubrum	10	No	FAC	FACW species 0 x 2 = 0
2				FAC species 20 x 3 = 60
3				FACU species 85 x 4 = 340
4				
5				UPL species 0 x 5 = 0
6				Column Totals: 105 (A) 400 (B)
7.				Prevalence Index = B/A = 3.81
				Hydrophytic Vegetation Indicators:
	10	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
Eupatorium capillifolium	50	Yes	FACU	
2. Ambrosia artemisiifolia	25	Yes	FACU	3 - Prevalence Index is ≤3.0¹
3. Vernonia angustifolia	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. Dichanthelium clandestinum	10	No	FAC	(i Tovide supporting data in Normanio of off a separate shoot)
5.			<u>.</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7.			-	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Definitions of Vegetation Strata.
				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH
12				and greater than or equal to 3.28 ft (1 m) tall.
	95	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft )		- rotal Gover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				of size, and woody plante less than 5.26 ft tail.
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
				height.
3				Unideanhistia
4				Hydrophytic Vegetation
	0	= Total Cover		Present? Yes No X
		- rotal covol		
Demorks (Include photo numbers here or on a const	oto oboot \			
Remarks: (Include photo numbers here or on a separ	ate Sheet.)			

		the depth n				or or co	onfirm the absence of	indicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)	<u>%</u> C	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10YR 4/4	100					Clay Loam	
								_
							·	
¹Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix, I	MS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belov	v Surface	(S8) (MLR	A 147. 148		ck (A10) (MLRA 147)
	pedon (A2)		Thin Dark Surfa					airie Redox (A16) (MLRA 147, 148)
Black His			Loamy Gleyed I			,		t Floodplain Soils (F19) (MLRA 146, 147)
	Sulfide (A4)		Depleted Matrix					allow Dark Surface (TF12)
	Layers (A5)		Redox Dark Sur					xplain in Remarks)
2 cm Mud	ck (A10) (LRR N)		Depleted Dark S		7)			
Depleted	Below Dark Surface (A1	1)	Redox Depress	ons (F8)				
Thick Da	rk Surface (A12)		Iron-Manganese		(F12) (LRF	N, MLRA	136)	
Sandy Mı	ucky Mineral (S1) (LRR N	, <u> </u>	Umbric Surface	(F13) (ML	.RA 136, 12	2)		
MLRA 147	, 148)		Piedmont Flood	plain Soils	s (F19) <b>(ML</b>	RA 148)		
Sandy GI	eyed Matrix (S4)		Red Parent Mat	erial (F21)	) (MLRA 12	7, 147)		
Sandy Re	` ,							
Stripped	Matrix (S6)	31 11 -					and broaden be accounted by a second	
Dark Surf		Indica	ators of hydropi	nytic veg	etation ai	nd wetla	nd hydrology must be p	present, unless disturbed or problematic.
	_ayer (if observed):							
Depth (ir	nches):						Hydric Soil Presei	nt? YesNo_X
Remarks:								

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 r	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:
<u>-</u>	
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 distr	
Are Vegetation , Soil , or Hydrology naturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Dry Season	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospheres on Li	iving Roots (C3) Crayfish Burrows (C8)
Sediment Deposits (B2) Presence of Reduced Iron (C	Gatalation visible on Actial imagery (65)
Prift Deposits (B3) Recent Iron Reduction in Tille	ed Soils (C6) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Field Observations:	FAC-Neutral Test (D5)
Surface Water Present Yes No X Depth (inches	).
Water Table Present Yes No X Depth (inches	· ——
Saturation Present Yes No X Depth (inches	·
(includes capillary fringe)	<u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:

Sampling Point: DP-30

Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
Acer rubrum     Diospyros virginiana	20	Yes Yes	FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Quercus rubra				That Are OBL, FACW, or FAC:4 (A)
4.			.,,,,,	Total Number of Dominant Species Across All Strata:5(B)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:80(A/B)
7				Prevalence Index worksheet:
	60	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1. Diospyros virginiana	20	Yes	FAC	FACW species 0 x 2 = 0
2				FAC species 75 x 3 = 225
3				FACU species 20 x 4 = 80
4				UPL species 0 x 5 = 0
5		-		Column Totals: 95 (A) 305 (B)
6		-		Prevalence Index = $B/A = 3.21$
7			<del></del>	Trevalence mack = B/A =
	20	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)		- 10101 00101		1 - Rapid Test for Hydrophytic Vegetation
1. Toxicodendron radicans	15	Yes	FAC	X 2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup>
4.				(Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree Mendentalists (7.0 pm) or results
10				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	15	T 0		
Woody Vine Stratum (Plot size: 30 ft )		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1			<del></del>	Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic Vegetation
	0	= Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separ	ate sheet.)			
(				

Profile Descr	iption: (Describe to the	depth neede	d to docu	ment the	e indicat	tor or co	nfirm the absence o	of indicators.)	
Depth	Matrix		Redox	c Feature	es				
(inches)	Color (moist) %	6 Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-16	10YR 3/3 10	00					Loam		
	<u> </u>								
_		<u></u>		'			_		
¹Type: C=Co	ncentration, D=Depletion	, RM=Reduce	ed Matrix, M	1S=Masl	ced Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix	
Hydric Soil Ir	ndicators:						Indicators	for Problematic Hyd	ric Soils³:
Histosol (A	<b>A1</b> )	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm M	luck (A10) (MLRA 147)	
Histic Epip	pedon (A2)	Thin	Dark Surfac	e (S9) <b>(M</b>	LRA 147, 1	148)	Coast F	Prairie Redox (A16) (MLR	A 147, 148)
Black Hist	ic (A3)	Loai	my Gleyed M	latrix (F2)			Piedmo	ont Floodplain Soils (F19)	(MLRA 146, 147)
Hydrogen	Sulfide (A4)	Dep	leted Matrix	(F3)			Very SI	hallow Dark Surface (TF1	2)
Stratified L	_ayers (A5)	Red	ox Dark Surf	ace (F6)				Explain in Remarks)	
2 cm Mucl	k (A10) (LRR N)	Dep	leted Dark S	urface (F	7)				
Depleted B	Below Dark Surface (A11)	Red	ox Depressio	ons (F8)					
	Surface (A12)	Iron	-Manganese	Masses (	F12) (LRF	R N, MLRA	136)		
	cky Mineral (S1) (LRR N,	Umb	oric Surface (	(F13) <b>(ML</b> I	RA 136, 12	2)			
MLRA 147,			lmont Floodp						
Sandy Gle	eyed Matrix (S4)		Parent Mate						
Sandy Red	dox (S5)								
Stripped M	Matrix (S6)								
Dark Surfa	ace (S7)	<sup>3</sup> Indicators	of hydroph	ytic vege	etation a	nd wetlar	nd hydrology must be	present, unless distu	rbed or problematic
Restrictive L	ayer (if observed):								
Type: _									
Depth (in	ches):						Hydric Soil Pres	ent? Yes	NoX_
Remarks:									
· · · · · · · · · · · · · · · · · · ·									

Project/Site: Clover Creek		City/County: Breckinri	dge	Sampling Date: <u>07/17/2024</u>			
Applicant/Owner: EDP Renewables			State: Kent	Sampling Point: DP-31			
Investigator(s): KR MA		Section, Towns					
	nageway Local re	elief (concave, convex, no	-	Slope %: 5			
Subregion (LRR or MLRA): LRR N MLR	A 120A Lat: 37.751723	Long: <u>-</u> 86		Datum: WGS84			
Soil Map Unit Name: SaB2			NWI classification:				
Are climatic / hydrologic conditions on the s	site typical for this time of year?	Yes		explain in Remarks.)			
• •	• • • • • • • • • • • • • • • • • • • •		Circumstances" pres	.,			
Are Vegetation, Soil, or Hy	· · · · · · · · · · · · · · · · · · ·	(If we are dead on a	plain any answers in				
Are Vegetation, Soil, or Hy	<del></del>	iatio:	•	•			
SUMMARY OF FINDINGS – Attach	site map showing sampling po	oint locations, transects,	important features	s, etc.			
Hydrophytic Vegetation Present?	Yes No_X_	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No_X_			
Wetland Hydrology Present?	Yes No X	If yes, optional Wetlar	nd Site ID:				
Dry season							
HYDROLOGY							
Wetland Hydrology Indicators:		<u>Se</u>	condary Indicators (mir	nimum of two required)			
Primary Indicators (minimum of one is req	uired: check all that apply)		Surface Soil Cracks (	· ·			
Sparsety Vegetated Concave Surface (88)							
High Water Table (A2)	True Aquatic Plants (B14)	_	Drainage Patterns (B				
Saturation (A3)	Hydrogen Sulfide Odor (C1)	_	Moss Trim Lines (B16				
Water Marks (B1)	Dry-Season Water Ta						
Sediment Deposits (B2)	Oxidized Rhizospheres on Liv Presence of Reduced Iron (C-		Crayfish Burrows (C8				
Drift Deposits (B3)	Recent Iron Reduction in Tille	Saturation visible on Aerial imagery (C3)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position				
Iron Deposits (B5)	Other (Explain in Remarks)		Shallow Aquitard (D3	` ′			
Inundation Visible on Aerial Imagery (B7)		_	Microtopographic Rel				
Water-Stained Leaves (B9)			FAC-Neutral Test (D5				
Field Observations:			TAO Neutral Test (De	)			
Surface Water Present Yes	No X Depth (inches)	:					
	No X Depth (inches)						
Saturation Present Yes			lydrology Present?	Yes No X			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, ı	monitoring well, aerial photos, pre	vious inspections), if avai	lable:				
Remarks:							

D	,
2.	,
2.	,
3.	, )
4.	)
Sapling/Shrub Stratum (Plot size:15 ft)   Sapling/Shrub Stratum (Plot size:15 ft)   Column   C	)
6.	- 1
That Are OBL, FACW, or FAC:	
Nultiply by:   Sapling/Shrub Stratum (Plot size: 15 ft)   20	/B)
Sapling/Shrub Stratum (Plot size: 15 ft)   20   Yes   FACU   FACW species   0   x 1 = 0   OBL species   0   x 1 = 0   FACW species   20   x 2 = 40   FACW species   0   x 3 = 0   FACW species   0   x 3 = 0   FACW species   0   x 3 = 0   FACW species   0   x 4 = 360   UPL species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Column Totals:   120   (A)   450   FACW species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   FACU species   10   x 5 = 50   Total Cover   Total	
Sapling/Shrub Stratum (Plot size: _15 ft)   1. Rhus copallinum   20	
1. Rhus copallinum  20 Yes FACU 2.	
2. 3. 4. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	
FAC species   0	
4	
5.   UPL species 10 x 5 = 50	
6.	
The first turn (Plot size: 5 ft)  I. Eupatorium capillifolium  So Yes FACU  Vernonia angustifolia  I. Dipmoea hederacea  I. Cirsium discolor  I. Agrimonia parviflora  I. Duncus effusus  I. Duncus effusus  I. Cirsium discolor  I. Duncus effusus  I. Cirsium discolor  I. Duncus effusus  I. Cirsium discolor  I. Definitions of Vegetation Indicators:  I. Cirsium discolor  I. Cirsium discolor  I. No FACU  Indicators of hydric vegetation Indicators:  I. Rapid Test for Hydrophytic Vegetation  I. 2 - Dominance Test is >50%  I. 4 - Morphological Adaptations¹  (Provide supporting data in Remarks or on a separate sheet)  I. Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic Vegetation Strata:  I. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height (DBH), regard	(B)
20	(0)
Herb Stratum (Plot size:5 ft)	
Herb Stratum       (Plot size:5ft)         1. Eupatorium capillifolium       50       Yes       FACU         2. Vernonia angustifolia       10       No       FACU         3. Ipomoea hederacea       10       No       FACU         4. Cirsium discolor       10       No       UPL         5. Agrimonia parviflora       10       No       FACW         6. Juncus effusus       10       No       FACW         7	
1. Eupatorium capillifolium  2. Vernonia angustifolia  3. Ipomoea hederacea  4. Cirsium discolor  5. Agrimonia parviflora  6. Juncus effusus  7	
2. Vernonia angustifolia  3. Ipomoea hederacea  10 No FACU  4. Cirsium discolor  5. Agrimonia parviflora  6. Juncus effusus  7. Definitions of Vegetation Strata:  9	
2. Vernonia angustifolia 3. Ipomoea hederacea 4. Cirsium discolor 5. Agrimonia parviflora 6. Juncus effusus 7.  8	
4. Cirsium discolor  5. Agrimonia parviflora  6. Juncus effusus  7. Definitions of Vegetation Strata:  9. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	
5. Agrimonia parviflora  10 No FACW Problematic Hydrophytic Vegetation¹ (Explain)  6. Juncus effusus  7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problem  8. Definitions of Vegetation Strata:  9. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	
6. Juncus effusus 10 No FACW 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problem as a second problem of the control of the contro	
7. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problem.  8. Definitions of Vegetation Strata:  9. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	
8 Definitions of Vegetation Strata: 9 Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	
8 Definitions of Vegetation Strata: 9 Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	matic.
9 Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	
diameter at breast neight (DBH), regardless of neigh	
	ht.
12. Sapling/shrub – Woody plants less than 3 in. DBH	
and greater than or equal to 3.28 ft (1 m) tall.	
= Total Cover Herb – All herbaceous (non-woody) plants, regardl	000
Woody Vine Stratum (Plot size: 30 ft ) regarding the beautiful of size, and woody plants less than 3.28 ft tall.	500
1	
woody vines – All woody vines greater than 3.26	t in
3	
4 Hydrophytic Vegetation	
0 = Total Cover Present? Yes No X	
<u> </u>	
Demontor (for the demonts of the country of the country of the country)	
Remarks: (Include photo numbers here or on a separate sheet.)	_

Depth   Matrix   Redox Features     Color (moist)   %   Color (moist)   %   Type   Loc²   Texture   Remarks	(inches)	Color (moist)	3 10YR	(moist)	%	Type <sup>1</sup>			Remarks
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Prope: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Prope: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Prope: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Proper Lining, M=Matrix.  Indicators for Problematic Hydric Soils*:    Histosol (A1)		10YR 4/4 98	3 10YR						Remains
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **I-Cocation: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:    Histosol (A1)	0-16			4/6			M	Clay Loam	
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,					<u> </u>		
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  All officiators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Type:  Depth (inches):  Hydric Soil Present? Yes No X		ncentration, D=Depletion,					<u> </u>		
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,				<u> </u>	_		
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,	 			_			
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Listic Epipedon (A2)  Histic Epipedon (A2)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Peledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Pindicators for Problematic Hydric Soils <sup>3</sup> :  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators for Muck A147, 148)  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Hydric Soils Present?  Indicators for Muck A147, 148)  Indicators for Hydric H		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Hydric Soil Indicators:  Histosol (A1)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Polyvalue Below Surface (S8) (MLRA 147, 148)  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16) (MLRA 147, 148)  Pledmont Floodplain Soils (F19) (MLRA 146, 147)  Depleted Below Dark Surface (F19) (MLRA 136, 122)  Umbric Surface (F13) (MLRA 136, 122)  Pledmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Yes No X		ncentration, D=Depletion,							
Histosol (A1)	¹Type: C=Cor		RM=Reduce	ed Matrix, M	S=Mask	ed Sand	d Grains.	<sup>2</sup> Location: PL=Pore L	ining, M=Matrix.
Histosol (A1)	Hvdric Soil In	dicators:						Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)  Thin Dark Surface (S9) (MLRA 147, 148)  Black Histic (A3)  Loamy Gleyed Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 146, 147)  Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Stratified Layers (A5)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S6)  Dark Surface (S7)  Red Parent Material (F21) (MLRA 127, 147)  Restrictive Layer (if observed):  Type:  Depth (inches):  Thick Dark Surface (A12)  Thick Dark Surface (A12)  Hydric Soil Present?  Thick Dark Surface (A12)  Hydric Soil Present?  Tyes  Hydric Soil Present?  Piedmont Floodplain Soils (F19) (MLRA 147, 148)  Coast Prairie Redox (A16) (MLRA 146, 147)  Piedmont Floodplain Soils (F19)  Mera 147, 148)  Coast Prairie Redox (A16) (MLRA 146, 147)  Piedmont Floodplain Soils (F19)  Mera 147, 148)  Coast Prairie Redox (A16) (MLRA 146, 147)  Piedmont Floodplain Soils (F19)  Mera 146, 147)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Other (Explain in Remarks)  Depleted Below Dark Surface (F7)  Memarks  Unbric Surface (F12) (MLRA 136, 122)  Mera 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 136, 122)  Mera 147, 148)  Piedmont Floodplain Soils (F19) (MLRA 148)  Red Parent Material (F21) (MLRA 147, 147)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Piedmont Floodplain Soils (F19)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic stripped for the pied of th			Poly	value Below	Surface (	(S8) (MLR	A 147, 148)		-
Black Histic (A3)	· ·	·						<del></del>	
Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12)  Stratified Layers (A5) Redox Dark Surface (F6) Other (Explain in Remarks)  2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7)  Depleted Below Dark Surface (A11) Redox Depressions (F8)  Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR N, MLRA 136)  Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122)  Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 148)  Sandy Redox (S5)  Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes NoX							,	<del></del>	
Stratified Layers (A5)			<u></u>						
2 cm Muck (A10) (LRR N) Depleted Dark Surface (F7) Depleted Below Dark Surface (A11) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No X					•				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122) MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Redox Depressions (F8)  Lron-Manganese Masses (F12) (LRR N, MLRA 136)  Lord-Manganese Masses (F12) (MLRA 136, 122)  Lord-Manganese Masses (F12) (MLRA 136, 122)  Lord-Manganese Masses (F12) (MLRA 148)  Lord-Manganese Masses (F12						7)			,
Thick Dark Surface (A12)						•			
MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)						F12) (LRF	R N, MLRA	136)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Yes No _X	Sandy Muc	cky Mineral (S1) (LRR N,	Uml	oric Surface (I	F13) <b>(ML</b> F	RA 136, 12	2)		
Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No _X	MLRA 147,	148)	Pied	dmont Floodp	lain Soils	(F19) <b>(ML</b>	LRA 148)		
Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Type:  Depth (inches):  Type:  Depth (inches):  Stripped Matrix (S6)  3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic hydrology must be present, and hydrology must be	Sandy Gle	yed Matrix (S4)	Red	Parent Mate	rial (F21)	(MLRA 12	7, 147)		
Dark Surface (S7)	Sandy Red	lox (S5)							
Restrictive Layer (if observed):           Type:	Stripped M	atrix (S6)	21 11 .						
Type:			<sup>3</sup> Indicators	of hydrophy	tic vege	etation a	nd wetlai	nd hydrology must be prese	ent, unless disturbed or problema
Depth (inches): NoX		ayer (if observed):							
	_								
Remarks:	Depth (inc	ches):						Hydric Soil Present?	Yes No_X
	Remarks:							•	

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 re	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 distu	(K					
Are Vegetation, Soil, or Hydrology naturally problem	natic? (II needed, explain any answers in Nemarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes NoX_					
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)  Dry season						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)					
Sparsely Vegetated Concave Surface (B8)  Surface Water (A1)  Aquatic Fauna (B13)  Drainage Patterns (B10)						
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)					
Saturation (A3) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)					
Water Marks (B1) Oxidized Rhizospheres on Liv	Crayisii Burlows (Co)					
Sediment Deposits (B2) Presence of Reduced Iron (C	Gaturation visible on Acrial imagery (65)					
Drift Deposits (B3) Recent Iron Reduction in Tille	Otdified of offessed Figures (B1)					
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	Microtopographic Relief (D4)					
Field Observations:	FAC-Neutral Test (D5)					
Surface Water Present Yes No X Depth (inches)	1.					
Water Table Present Yes No X Depth (inches)	· · · · · · · · · · · · · · · · · · ·					
Saturation Present Yes No X Depth (inches)						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:					
Remarks:						

<b>VEGETATION</b> – Use scientific names of pla	ants.			Sampling Point: DP-32
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,
4.				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10tai 00vci		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3		<del></del> -		FACU species 0 x 4 = 0
4				UPL species 90 x 5 = 450
5				
6				Column Totals: 90 (A) 450 (B)
7				Prevalence Index = B/A =5
	0			Hydrophytic Vegetation Indicators:
		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Glycine max	90	Yes	UPL	
2				3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Provide supporting data in Remarks of on a separate sneet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
6				
7		·		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH
	90			and greater than or equal to 3.28 ft (1 m) tall.
_		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1		<u> </u>		Woody vines – All woody vines greater than 3.28 ft in
2		- <u></u>		height.
3				
4				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1
The market (more as priority markets and a soper	a.o ooo,			

	ription: (Describe to the	e depth neede				tor or co	nfirm the absence	of indicators.)	
Depth (inches)	Matrix	O/ Color		Feature		1002	Toytura	D	lomorko
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks
0-16	10YR 3/2 1	100					Loam		
		,							
		,							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Reduce	d Matrix, N	IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Ma	atrix.
Hydric Soil I	ndicators:						Indicators	for Problematic	Hydric Soils³:
Histosol (	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm M	Muck (A10) (MLRA 147	)
Histic Epi	pedon (A2)		Dark Surfac					Prairie Redox (A16) (	MLRA 147, 148)
Black Hist	tic (A3)	Loai	my Gleyed M	latrix (F2)	)		Piedm	ont Floodplain Soils (	F19) (MLRA 146, 147)
	Sulfide (A4)		leted Matrix (					Shallow Dark Surface	
	Layers (A5)		ox Dark Surf					(Explain in Remarks)	,
	k (A10) (LRR N)		leted Dark Si		7)			,	
	Below Dark Surface (A11)		ox Depressio		,				
	k Surface (A12)		-Manganese		(F12) (LRF	R N, MLRA	136)		
	icky Mineral (S1) (LRR N,		oric Surface (				,		
MLRA 147,			lmont Floodp						
	eyed Matrix (S4)		Parent Mate						
Sandy Re	dox (S5)			,	•	,			
	Matrix (S6)								
Dark Surf		<sup>3</sup> Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must be	e present, unless d	isturbed or problemati
	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Pres	sent? Yes	NoX_
Remarks:									

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
	Long: -86.481071 Datum: WGS84
	NWI classification:
Soil Map Unit Name: SaA	
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 dist	"
Are Vegetation , Soil , or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Dry season	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)
X Saturation (A3) Hydrogen Sulfide Odor (C1)	
Water Marks (B1) Oxidized Rhizospheres on L	
Sediment Deposits (B2) Presence of Reduced Iron (	
Prift Deposits (B3) Recent Iron Reduction in Till	led Soils (C6) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Water-Stained Leaves (B9)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present Yes X No Depth (inches	
Water Table Present Yes No X Depth (inches	
Saturation Present Yes X No Depth (inches	S):0
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if available:
Remarks:	

<b>VEGETATION</b> – Use scientific names of plants	ants.			Sampling Point: DP-33
Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 1 (A)
3				(,,
4.				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100 (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	Tatal Causan		Total 9/ Cover of
Sapling/Shrub Stratum (Plot size: 15 ft)	-	_ = Total Cover		
				OBL species 0 x 1 = 0
1				FACW species 40 x 2 = 80
2				FAC species $0 \times 3 = 0$
3				FACU species 0 x 4 = 0
4				
5				UPL species0 x 5 =0
6				Column Totals: 40 (A) 80 (B)
7.				Prevalence Index = B/A =2
				Hydrophytic Vegetation Indicators:
	0	= Total Cover		' ' ' '
Herb Stratum (Plot size: 5 ft)				X 1 - Rapid Test for Hydrophytic Vegetation
	40	Yes	FACW	X 2 - Dominance Test is >50%
				X 3 - Prevalence Index is ≤3.01
2				4 - Morphological Adaptations <sup>1</sup>
3.		<del></del> .		(Provide supporting data in Remarks or on a separate sheet)
4		<u> </u>		Darble and in the decrete dis Manufation 1 (Fundain)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
10.				Tree – Woody plants 3 in. (7.6 cm) or more in
		<del></del> -		diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH
12				and greater than or equal to 3.28 ft (1 m) tall.
	40	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft )		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
,				of size, and woody plants less than 3.28 ft tall.
1		<del></del> .		Woody vines – All woody vines greater than 3.28 ft in
2		<del></del> -		height.
3				
4				Hydrophytic
	0			Vegetation Present? Yes X No
		= Total Cover		Present? Yes X No No
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Depth (inches)			Dade		20	or or co			
(11101162)	Matrix Color (moist) %	- Color		Feature	es Type¹	Loc <sup>2</sup>	Teyturo	Rema	arke
	Color (moist) 9	o Color	(moist)	<u>%</u>	ı ype	LOC	Texture	Kema	6A1K
0-16	10YR 4/3 9	5 10YR	4/6	5	С	M	Loam		
-									
	_								
¹Type: C=Cor	ncentration, D=Depletion	n, RM=Reduce	ed Matrix, M	S=Masl	ced Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix	
Hydric Soil In	dicators:						Indicators fo	r Problematic Hyd	ric Soils³:
Histosol (A	1)	Pol	yvalue Below	Surface (	(S8) (MLR	A 147, 148)	2 cm Mucl	k (A10) (MLRA 147)	
Histic Epipe	edon (A2)	Thir	n Dark Surfac	e (S9) <b>(M</b>	LRA 147, 1	48)	Coast Pra	irie Redox (A16) (MLRA	A 147, 148)
Black Histic	c (A3)	Loa	my Gleyed M	atrix (F2)			Piedmont	Floodplain Soils (F19)	(MLRA 146, 147)
Hydrogen S	Sulfide (A4)	Dep	oleted Matrix (	F3)			Very Shall	low Dark Surface (TF1	2)
Stratified La	ayers (A5)	Red	dox Dark Surfa	ace (F6)			Other (Exp	plain in Remarks)	
2 cm Muck	(A10) (LRR N)	Dep	oleted Dark Si	urface (F	7)				
Depleted B	selow Dark Surface (A11)	X Red	dox Depressio	ns (F8)					
Thick Dark	Surface (A12)	Iron	n-Manganese	Masses (	F12) (LRF	N, MLRA	136)		
Sandy Muc	cky Mineral (S1) (LRR N,	Um	bric Surface (	F13) <b>(ML</b> I	RA 136, 12	2)			
MLRA 147, 1		Pie	dmont Floodp	lain Soils	(F19) <b>(M</b> I	RA 148)			
	yed Matrix (S4)	Red	d Parent Mate	rial (F21)	(MLRA 12	7, 147)			
Sandy Red									
Stripped M		3Indicators	of hydronh	utic veg	atation a	nd wetla	nd hydrology must be pr	resent unless distur	thed or problemat
Dark Surfa		maicators	or riyaropri	ytic vegt	tation a	na wetiai	T	Cocht, ariicoo alotai	bed of problemat
Type:	ayer (if observed):								
_	de V		-				Undela Oall Bassass	10 Y X	, NI-
Depth (inc	ches):		-				Hydric Soil Present	t?        YesX	No

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 r	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.)						
	<del></del>						
Are Vegetation, Soil, or Hydrology significantly distu	(If you had a sometime and a property of December )						
Are Vegetation, Soil, or Hydrology naturally problem	natic? (Il liceded, explain any answers in ternaits.)						
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area						
Hydric Soil Present? Yes No X	within a Wetland? Yes No_X_						
Wetland Hydrology Present? Yes No _X	If yes, optional Wetland Site ID:						
Dry season							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)						
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)						
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)						
Saturation (A3) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)						
Water Marks (B1) Oxidized Rhizospheres on Lin	Claylish Bullows (Co)						
Sediment Deposits (B2) Presence of Reduced Iron (C	Gatalation visible on Acrial imagery (65)						
Drift Deposits (B3) Recent Iron Reduction in Tille	ed Soils (C6) Stunted or Stressed Plants (D1)						
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)						
Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7)	Straitow Adultata (25)						
Water-Stained Leaves (B9)	Microtopographic Relief (D4)						
Field Observations:	FAC-Neutral Test (D5)						
Surface Water Present Yes No X Depth (inches)	):						
Water Table Present Yes No X Depth (inches)							
Saturation Present Yes No X Depth (inches)	·						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:						
Remarks:							

<b>VEGETATION</b> – Use scientific names of plants	ants.			Sampling Point: DP-34
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				
4				Total Number of Dominant
5.				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
7		<del></del> -		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)	-	_ = 10101 00101		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4				UPL species 100 x 5 = 500
5				
6				
7				Prevalence Index = B/A =5
	0			Hydrophytic Vegetation Indicators:
	:	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Glycine max	100	Yes	UPL	
2				3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4.				(Provide supporting data in Remarks of on a separate sneet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
6				
7		<del></del> -		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.		<del></del> -		Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11		<u> </u>		
12				Sapling/shrub – Woody plants less than 3 in. DBH
	100			and greater than or equal to 3.28 ft (1 m) tall.
	:	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				- United States of the Control of th
4				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1
	,			

Profile Description: (Describe to the o				tor or co	nfirm the absence of	indicators.)	
Depth Matrix (inches) Color (moist) %		edox Featur		Loc <sup>2</sup>	Toyturo	Domo	dea
(inches) Color (moist) %	Color (moist)		Type <sup>1</sup>	LOC	Texture	Remai	KS
0-16 10YR 3/3 100	<u> </u>				Loam		
	_	_					
	_						
	_						
<del></del>	_						
<sup>1</sup> Type: C=Concentration, D=Depletion,	RM=Reduced Matri	x, MS=Mas	ked San	d Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil Indicators:					Indicators for	or Problematic Hydri	ic Soils³:
Histosol (A1)	Polyvalue Be	elow Surface	(S8) (MLR	A 147, 148)	2 cm Mu	ck (A10) (MLRA 147)	
Histic Epipedon (A2)	Thin Dark S	urface (S9) (N	MLRA 147, 1	148)	Coast Pr	airie Redox (A16) (MLRA	147, 148)
Black Histic (A3)	Loamy Gley	ed Matrix (F2	2)		Piedmon	t Floodplain Soils (F19) (	MLRA 146, 147)
Hydrogen Sulfide (A4)	Depleted Ma	atrix (F3)			Very Sha	allow Dark Surface (TF12	)
Stratified Layers (A5)	Redox Dark	Surface (F6)			Other (E:	xplain in Remarks)	
2 cm Muck (A10) (LRR N)	Depleted Da	rk Surface (F	7)				
Depleted Below Dark Surface (A11)	Redox Depre	essions (F8)					
Thick Dark Surface (A12)	Iron-Mangar	nese Masses	(F12) (LRI	R N, MLRA	136)		
Sandy Mucky Mineral (S1) (LRR N,	Umbric Surfa	ace (F13) (ML	-RA 136, 12	22)			
MLRA 147, 148)	Piedmont Fl	oodplain Soil	s (F19) <b>(M</b> I	LRA 148)			
Sandy Gleyed Matrix (S4)	Red Parent	Material (F21	) (MLRA 12	27, 147)			
Sandy Redox (S5)							
Stripped Matrix (S6)	<sup>3</sup> Indicators of hydr	onhytic ved	etation a	nd wetlar	nd hydrology must be p	oresent unless disturb	ned or problemation
Dark Surface (S7)  Restrictive Layer (if observed):	maioatoro or riyar	opily ito vog	jotation a	na wona		orocorn, armood diotars	ou or problematic
Type:							
Depth (inches):					Hydric Soil Prese	nt? Yes	No X
					Tryuno con ricoci		
Remarks:							

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 re	elief (concave, convex, none): Lin	ear Slope %: 1					
Subregion (LRR or MLRA): LRR N MLR		Long: -86.481052	Datum: WGS84					
- · · · · · · · · · · · · · · · · · · ·	71.707221	NWI classific						
Soil Map Unit Name: SaB2								
Are climatic / hydrologic conditions on the s	•		(If no, explain in Remarks.)					
Are Vegetation , Soil , or Hy			· — —					
Are Vegetation , Soil , or Hy	/drology naturally problem	atic? (If needed, explain any ans	wers in Remarks.)					
SUMMARY OF FINDINGS - Attach	site map showing sampling po	int locations, transects, important f	eatures, etc.					
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area						
Hydric Soil Present?	Yes No X	•	s No_X_					
Wetland Hydrology Present?	Yes No X	If yes, optional Wetland Site ID:						
Dry season								
HYDROLOGY								
Wetland Hydrology Indicators:			tors (minimum of two required)					
Primary Indicators (minimum of one is req	uired; check all that apply)	Surface Soil	Cracks (B6) getated Concave Surface (B8)					
Surface Water (A1)	Aquatic Fauna (B13)	Drainage Pa						
High Water Table (A2)	True Aquatic Plants (B14)	Moss Trim Lines (B16)						
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)						
Water Marks (B1)	Oxidized Rhizospheres on Livi							
Sediment Deposits (B2)	Presence of Reduced Iron (C4							
Drift Deposits (B3)	Recent Iron Reduction in Tilled							
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)						
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)		Microtopogra	aphic Relief (D4)					
Water-Stained Leaves (B9)		FAC-Neutral	Test (D5)					
Field Observations:								
	No X Depth (inches):	: <u> </u>						
	No X Depth (inches):	• • • • • • • • • • • • • • • • • • •						
Saturation Present Yes	No X Depth (inches):	: Wetland Hydrology Pr	resent? Yes No _X					
(includes capillary fringe)								
Describe Recorded Data (stream gauge, r	nonitoring well, aerial photos, prev	vious inspections), if available:						
Remarks:								
кетагкs:								

Sampling Point: DP-35

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3.         4.				Total Number of Dominant Species Across All Strata:1 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
<i>1.</i>				Prevalence Index worksheet:
	0	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15 ft)				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 0 x 4 = 0
4				UPL species 60 x 5 = 300
5				· — — —
6				Column Totals: 60 (A) 300 (B)
7				Prevalence index = B/A =
	0	Tatal Carran		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)		= Total Cover		1 - Rapid Test for Hydrophytic Vegetation
1 Triticum aestivum	60	Yes	UPL	2 - Dominance Test is >50%
		<del></del>		3 - Prevalence Index is ≤3.0¹
				4 - Morphological Adaptations <sup>1</sup>
				(Provide supporting data in Remarks or on a separate sheet)
4 5.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				_
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
				Definitions of Vegetation Strata.
9				Tree – Woody plants 3 in. (7.6 cm) or more in
11				diameter at breast height (DBH), regardless of height.
12.				Sapling/shrub - Woody plants less than 3 in. DBH
12.				and greater than or equal to 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30 ft )	60	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	0	= Total Cover		Vegetation Present? Yes NoX
Remarks: (Include photo numbers here or on a separ	rate sheet \			1
remains. (molude proto numbers fiere of off a Separ	ale SHEEL.)			

	ription: (Describe to the	e depth neede				tor or co	nfirm the absence	of indicators.)	
Depth (inches)	Matrix	O/ Color		Feature		1002	Toytura	D	lomorko
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks
0-16	10YR 3/2 1	100					Loam		
		,							
		,							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Reduce	d Matrix, N	IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=Ma	atrix.
Hydric Soil I	ndicators:						Indicators	for Problematic	Hydric Soils³:
Histosol (	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm M	Muck (A10) (MLRA 147	)
Histic Epi	pedon (A2)		Dark Surfac					Prairie Redox (A16) (	MLRA 147, 148)
Black Hist	tic (A3)	Loai	my Gleyed M	latrix (F2)	)		Piedm	ont Floodplain Soils (	F19) (MLRA 146, 147)
	Sulfide (A4)		leted Matrix (					Shallow Dark Surface	
	Layers (A5)		ox Dark Surf					(Explain in Remarks)	,
	k (A10) (LRR N)		leted Dark Si		7)			,	
	Below Dark Surface (A11)		ox Depressio		,				
	k Surface (A12)		-Manganese		(F12) (LRF	R N, MLRA	136)		
	icky Mineral (S1) (LRR N,		oric Surface (				,		
MLRA 147,			lmont Floodp						
	eyed Matrix (S4)		Parent Mate						
Sandy Re	dox (S5)			,	•	, ,			
	Matrix (S6)								
Dark Surf		<sup>3</sup> Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must be	e present, unless d	isturbed or problemati
	ayer (if observed):								
Type:									
Depth (in	ches):						Hydric Soil Pres	sent? Yes	NoX_
Remarks:									

Project/Site: Clover Creek		City/County: Brecking	nridge	Sampling Date: <u>07/16/2024</u>				
Applicant/Owner: EDP Renewables			State: Kent	Sampling Point: DP-36				
Investigator(s): KR MA		Section, Town	nship, Range:	<u> </u>				
Landform (hillside, terrace, etc.): Flat	Local re	elief (concave, convex,	none): Linear	Slope %: 1				
Subregion (LRR or MLRA): LRR N MLR.		Long: -		Datum: WGS84				
	1120/1 Lat. 07.740024	Long	NWI classification:	Dutum				
Soil Map Unit Name: SaB2								
Are climatic / hydrologic conditions on the s		Yes	<u> </u>	explain in Remarks.)				
Are Vegetation , Soil , or Hy		416	l Circumstances" pres					
Are Vegetation , Soil , or Hy	drology naturally problem	atic? (If needed, e	explain any answers ir	i Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing sampling po	int locations, transec	ts, important feature	s, etc.				
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Are	ea					
Hydric Soil Present?	Yes No X	within a Wetland?		No_X_				
Wetland Hydrology Present?	Yes No X	If yes, optional Wetl	-					
Dry season.								
HYDROLOGY								
Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (min					
Primary Indicators (minimum of one is requ	uired; check all that apply)	•	Surface Soil Cracks ( Sparsely Vegetated (	(B6) Concave Surface (B8)				
Surface Water (A1)	Aquatic Fauna (B13)	Drainage Patterns (B10)						
High Water Table (A2)	True Aquatic Plants (B14)	Moss Trim Lines (B16)						
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)						
Water Marks (B1)	Oxidized Rhizospheres on Livi	iving Roots (C3) Crayfish Burrows (C8)						
Sediment Deposits (B2)	Presence of Reduced Iron (C4	1)	Saturation Visible on	Aerial Imagery (C9)				
Drift Deposits (B3)	Recent Iron Reduction in Tilled	d Soils (C6)	Stunted or Stressed I	Plants (D1)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Position (D2)						
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)		,	Microtopographic Re	lief (D4)				
Water-Stained Leaves (B9)			FAC-Neutral Test (DS	5)				
Field Observations:								
	No X Depth (inches):	:						
	No X Depth (inches):							
Saturation Present Yes	No X Depth (inches):	: Wetland	I Hydrology Present?	? Yes No_X_				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, r	nonitoring well, aerial photos, prev	vious inspections), if av	/ailable:					
Remarks:								
Nemarks.								

<b>VEGETATION</b> – Use scientific names of pla	ants.			Sampling Point: DP-36
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,
4.				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10181 00761		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 40 x 4 = 160
4				UPL species 60 x 5 = 300
5				
6				Column Totals: 100 (A) 460 (B)
7				Prevalence Index = B/A = 4.6
	0			Hydrophytic Vegetation Indicators:
_		= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				- 2 - Dominance Test is >50%
1. Glycine max	60	Yes	UPL	
2. Festuca arundinacea	40	Yes	FACU	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup>
4				(Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
6				
7		<del></del> -		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8		<del></del> -		Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	100			and greater than or equal to 3.20 ft (1 fil) tall.
		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4				Hydrophytic
	_			Vegetation
		= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet.)			
	,			

	ription: (Describe to the	e depth neede				tor or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix	O/ Color		Feature		1002	Toytura		Domorko	
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-16	10YR 4/4 1	00					Loam			
								-		
							_			
								<u> </u>		
¹Type: C=Co	oncentration, D=Depletio	n, RM=Reduce	d Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=	Matrix.	
Hydric Soil I	ndicators:						Indicators	for Problemati	c Hydric Soil	s³:
Histosol (	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm l	Muck (A10) (MLRA 1	147)	
Histic Epi	pedon (A2)		Dark Surfac					Prairie Redox (A16	S) (MLRA 147, 148	3)
Black His	tic (A3)	Loai	my Gleyed M	latrix (F2)	)		Piedm	ont Floodplain Soil	s (F19) (MLRA 1	46, 147)
	Sulfide (A4)	Dep	leted Matrix (	(F3)			Very S	Shallow Dark Surface	ce (TF12)	
	Layers (A5)		ox Dark Surf					(Explain in Remark		
	k (A10) (LRR N)		leted Dark S		7)				,	
	Below Dark Surface (A11)		ox Depressio		•					
	k Surface (A12)		-Manganese		(F12) (LRF	R N, MLRA	136)			
	icky Mineral (S1) (LRR N,		oric Surface (				,			
MLRA 147			lmont Floodp							
Sandy Glo	eyed Matrix (S4)		Parent Mate							
Sandy Re	dox (S5)	· <del></del>		, ,	•					
Stripped I	Matrix (S6)									
Dark Surf		<sup>3</sup> Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must b	e present, unless	disturbed or	problemation
	ayer (if observed):									
Type: _										
Depth (in	ches):						Hydric Soil Pres	sent? Ye	esN	<u> Х</u>
Remarks:							1			

Project/Site: Clover Creek	City/County:	: Breckinridge	Sampling Date: <u>07/16/2024</u>					
Applicant/Owner: EDP Renewables	<del></del>	State: Kent	Sampling Point: DP-37					
Investigator(s): KR MA	Sec	ction, Township, Range:						
Landform (hillside, terrace, etc.): Flat	Local relief (concave	e, convex, none): Linear	Slope %: 1					
Subregion (LRR or MLRA): LRR N MLRA 120A Lat: 3	·	Long: -86.486202	Datum: WGS84					
Soil Map Unit Name: SaA	7.707070	NWI classification:						
· · · · · · · · · · · · · · · · · · ·	in time of year?		ovaloin in Domorko )					
Are climatic / hydrologic conditions on the site typical for thi		<del></del>	explain in Remarks.)					
Are Vegetation , Soil , or Hydrology		re "Normal Circumstances" pres						
Are Vegetation , Soil , or Hydrology	naturally problematic?	needed, explain any answers ir	remarks.)					
SUMMARY OF FINDINGS – Attach site map show	ing sampling point locations	s, transects, important feature	s, etc.					
Hydrophytic Vegetation Present? Yes	No X Is the Sar	mpled Area						
	No X within a V	•	No_X_					
Wetland Hydrology Present? Yes		ional Wetland Site ID:						
Dry season								
HYDROLOGY								
Wetland Hydrology Indicators:		Secondary Indicators (min	nimum of two required)					
Primary Indicators (minimum of one is required; check all t	that apply)	Surface Soil Cracks (	·					
Surface Water (A1) Aquatic F	Fauna (B13)	Sparsely Vegetated C	Concave Surface (B8)					
High Water Table (A2)	uatic Plants (B14)	Moss Trim Lines (B16)						
Saturation (A3) Hydrogel	n Sulfide Odor (C1)	Dry-Season Water Table (C2)						
Water Marks (B1) Oxidized	Rhizospheres on Living Roots (C3)							
Sediment Deposits (B2) Presence	e of Reduced Iron (C4)	Saturation Visible on						
Drift Deposits (B3)	ron Reduction in Tilled Soils (C6)	Stunted or Stressed I						
Algal Mat or Crust (B4) Thin Muc	ck Surface (C7)	Geomorphic Position						
Iron Deposits (B5) Other (E.	xplain in Remarks)	Shallow Aquitard (D3						
Inundation Visible on Aerial Imagery (B7)		Microtopographic Re						
Water-Stained Leaves (B9)		FAC-Neutral Test (DS						
Field Observations:								
Surface Water Present Yes No X	Depth (inches):							
Water Table Present Yes No X	Depth (inches):							
Saturation Present Yes No X	Depth (inches):	Wetland Hydrology Present?	Yes No_X_					
(includes capillary fringe)								
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, a Remarks:	aerial photos, previous inspecti	ions), if available:						

<b>VEGETATION</b> – Use scientific names of pla	ants.			Sampling Point: DP-37
Tree Stratum (Plot size: 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: 0 (A)
3				(,
4.				Total Number of Dominant
				Species Across All Strata: 1 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: (A/B)
7		<del></del>		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)		_ = 10tai 00vci		
				OBL species0 x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species0 x 3 =0
3		<del></del> -		FACU species 0 x 4 = 0
4				UPL species 100 x 5 = 500
5				
6				Column Totals: 100 (A) 500 (B)
7				Prevalence Index = B/A =5
	_			Hydrophytic Vegetation Indicators:
	:	= Total Cover		- 1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 ft)				<del></del>
1. Glycine max	100	Yes	UPL	2 - Dominance Test is >50%
2				3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup>
				(Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
6		-		
7				¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH
	100			and greater than or equal to 3.28 ft (1 m) tall.
_	:	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft)				of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2				height.
3				
4.				Hydrophytic
				Vegetation
	0	= Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	rate sheet )			
Tremaine. (menade priote numbere nore et en a depar	ato 01100ti.)			

	ription: (Describe to the	e depth neede				or or co	nfirm the absence	of indicators.)		
Depth (inches)	Matrix	Color		Feature		1002	Touturo		Domorko	
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-16	10YR 3/2 1	00					Loam			
¹Type: C=Co	oncentration, D=Depletion	n, RM=Reduce	d Matrix, M	IS=Masl	ked Sand	Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=	:Matrix.	
Hydric Soil I	ndicators:						Indicators	for Problemati	ic Hydric S	oils³:
Histosol (	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm N	/luck (A10) (MLRA	147)	
Histic Epi	pedon (A2)		Dark Surfac					Prairie Redox (A16	6) <b>(MLRA 147</b> ,	148)
Black Hist	tic (A3)	Loai	my Gleyed M	latrix (F2)			Piedm	ont Floodplain Soil	ls (F19) (MLR	A 146, 147)
	Sulfide (A4)	<u></u>	leted Matrix (					Shallow Dark Surfa		
	Layers (A5)		ox Dark Surf					(Explain in Remark		
	k (A10) (LRR N)	<u></u>	leted Dark S		7)				- /	
	Below Dark Surface (A11)		ox Depressio		,					
	k Surface (A12)		-Manganese		(F12) (LRF	N. MLRA	136)			
	icky Mineral (S1) (LRR N,		oric Surface (				,			
MLRA 147,			lmont Floodp							
	eyed Matrix (S4)		Parent Mate							
Sandy Re		1100	T GIOTH WIGH	a. (1 2 1)	(IIILIVA 12	,,				
	Matrix (S6)									
Dark Surf		3Indicators	of hydroph	ytic vege	etation a	nd wetla	nd hydrology must be	e present, unless	s disturbed	or problema
	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pres	sent? Yo	es	No_X
Remarks:	<u> </u>									
rtomanto.										

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
· · · · · · · · · · · · · · · · · · ·	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 distributed as a significant signif	
Are Vegetation , Soil , or Hydrology naturally probler	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling p	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present?  Yes  No X	within a Wetland? Yes No_X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  Dry season	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
High Water Table (A2) True Aquatic Plants (B14)	Drainage Fatterns (B10) Moss Trim Lines (B16)
Saturation (A3) Hydrogen Sulfide Odor (C1)	
Water Marks (B1) Oxidized Rhizospheres on Li	
Sediment Deposits (B2) Presence of Reduced Iron (C	
Drift Deposits (B3) Recent Iron Reduction in Till	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present Yes No X Depth (inches	s):
Water Table Present Yes No X Depth (inches	s):
Saturation Present Yes No X Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of p	lants.			Sampling Point: DP-38
Tree Stratum (Plot size: 30 ft)	Absolute <u>% Cover</u>	Dominant Species	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	50	Yes	FACU	Number of Dominant Species
2. Acer rubrum	20	Yes	FAC	That Are OBL, FACW, or FAC: (A)
3	. ——	<del></del>		Total Number of Dominant
4	<u> </u>			Species Across All Strata: 3 (B)
5	· <u> </u>			
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
7				Prevalence Index worksheet:
	70	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species 0 x 1 = 0
1				FACW species $0   x 2 = 0$
2	. ———			FAC species 25 x 3 = 75
3				FACU species 50 x 4 = 200
4				UPL species 30 x 5 = 150
5	·			Column Totals: 105 (A) 425 (B)
6				Prevalence Index = B/A = 4.05
7	. ———			
	0	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)				- 1 - Rapid Test for Hydrophytic Vegetation
1. Euonymus hederaceus	30	Yes	UPL	2 - Dominance Test is >50%
2. Toxicodendron radicans	5	No	FAC	3 - Prevalence Index is ≤3.0¹
3				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.				Definitions of Vegetation Strata:
9	<u> </u>			Tree Woody plants 3 in (7.6 cm) or more in
10	-			<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				Sapling/shrub – Woody plants less than 3 in. DBH
12				and greater than or equal to 3.28 ft (1 m) tall.
	35	= Total Cover		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30 ft )				of size, and woody plants less than 3.28 ft tall.
1	·			Woody vines – All woody vines greater than 3.28 ft in
2	. <u> </u>			height.
3	. <u> </u>			
4	<u> </u>			Hydrophytic
	0	T-1-1 0		Vegetation Present? Yes No X
	:	= Total Cover		riesent: res No
Decreeds the declaration of the second of th				
Remarks: (Include photo numbers here or on a sepa	arate sneet.)			

Depth   Matrix   Redox Features	Profile Description: (Describe to the	e depth neede				tor or co	onfirm the absence of ind	icators.)
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  "Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:    Indicators for Problematic Hydric Soils*:	Depth Matrix (inches) Color (moist)	% Color				Loc2	Tevture	Romarks
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  **Location: PL=Pore Lining, M=Matrix.  Hydric Soil Indicators:  Histosol (A1)	· · · · · · · · · · · · · · · · · · ·		(moist)	70	Турс	LUC		Remarks
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X	0-16 10YR 3/2	100					Clay Loam	
Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Listic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 147) Hydrogen Sulfide (A4) Depleted Matrix (F3) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Peleted Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present? Yes No X								
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Histosol (A1)	<sup>1</sup> Type: C=Concentration, D=Depletion	n, RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Histic Epipedon (A2)	Hydric Soil Indicators:						Indicators for F	Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)	Histosol (A1)	Poly	yvalue Below	Surface	(S8) (MLR	A 147, 148)	2 cm Muck (A	A10) <b>(MLRA 147)</b>
Hydrogen Sulfide (A4)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122)  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Redox Depressions (F8)  Umbric Surface (F13) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Hydric Soil Present?  Yes No X	Histic Epipedon (A2)	Thir	n Dark Surfac	e (S9) (M	ILRA 147, 1	148)	Coast Prairie	Redox (A16) (MLRA 147, 148)
Stratified Layers (A5)	Black Histic (A3)	Loa	my Gleyed M	latrix (F2)	)		Piedmont Flo	oodplain Soils (F19) (MLRA 146, 147)
2 cm Muck (A10) (LRR N)	Hydrogen Sulfide (A4)	Dep	oleted Matrix	(F3)			Very Shallow	Dark Surface (TF12)
Depleted Below Dark Surface (A11) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Sandy Mucky Mineral (S1) (LRR N, MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems	Stratified Layers (A5)	Rec	dox Dark Surf	ace (F6)			Other (Explain	in in Remarks)
Thick Dark Surface (A12)	2 cm Muck (A10) (LRR N)	Dep	oleted Dark S	urface (F	7)			
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Sandy Gleyed Matrix (S4) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemate the strictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes NoX	Depleted Below Dark Surface (A11)	Rec	dox Depressio	ons (F8)				
MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) * Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems * Type: Depth (inches): * Hydric Soil Present? Yes NoX * * * NoX * * * NoX * * * No X * NoX * * NoX * * NoX * No X * No No X * No No No No	Thick Dark Surface (A12)	Iron	-Manganese	Masses	(F12) (LRF	R N, MLRA	136)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7)  Restrictive Layer (if observed): Type: Depth (inches):  Hydric Soil Present?  Red Parent Material (F21) (MLRA 127, 147)  Red Parent Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Present Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Hydric Soil Present?  Present Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Present Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Present Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Present Material (F21) (MLRA 127, 147)  Hydric Soil Present?  Present Material (F21) (MLRA 127, 147)  Hydric Soil Present?	Sandy Mucky Mineral (S1) (LRR N,	Um	bric Surface (	(F13) <b>(ML</b>	RA 136, 12	2)		
Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No _X	MLRA 147, 148)	Pied	dmont Floodp	lain Soils	s (F19) <b>(M</b> I	LRA 148)		
Stripped Matrix (S6)  Dark Surface (S7)  Slindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problems  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes No _X	Sandy Gleyed Matrix (S4)	Rec	d Parent Mate	erial (F21)	) (MLRA 12	7, 147)		
Dark Surface (S7)    Dark Surface (S7)   3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problema	Sandy Redox (S5)							
Restrictive Layer (if observed):           Type:	Stripped Matrix (S6)							
Type:	Dark Surface (S7)	<sup>3</sup> Indicators	of hydroph	ytic veg	etation a	nd wetla	nd hydrology must be pres	ent, unless disturbed or problemati
Depth (inches): No _X	Restrictive Layer (if observed):							
	Type:							
Remarks:	Depth (inches):						Hydric Soil Present?	YesNo_X
	Remarks:							

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 r	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.)
	<del></del>
Are Vegetation, Soil, or Hydrology significantly distu	(If a saded explain any province in Demants)
Are Vegetation, Soil, or Hydrology naturally problem	matic:
SUMMARY OF FINDINGS – Attach site map showing sampling po	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X_	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes NoX_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Dry season	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) Aquatic Fauna (B13)	Drainage Patterns (B10)
High Water Table (A2) True Aquatic Plants (B14)	Moss Trim Lines (B16)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Water Marks (B1) Oxidized Rhizospheres on Li	claylish Barrows (66)
Sediment Deposits (B2) Presence of Reduced Iron (C	Gataration visible on Acrial imagery (65)
Drift Deposits (B3) Recent Iron Reduction in Tille Algal Mat or Crust (B4) Thin Muck Surface (C7)	Ordined of Orlessed Flames (DT)
Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	The reality rest (55)
Surface Water Present Yes No X Depth (inches	s):
Water Table Present Yes No X Depth (inches	):
Saturation Present Yes No X Depth (inches	S): Wetland Hydrology Present? Yes No X
(includes capillary fringe)	and the state of t
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

Sampling Point: DP-39

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test worksheet:
1 2				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: 0 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:NaN(A/B)
<i>/</i>				Prevalence Index worksheet:
	0	_ = Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 ft)				OBL species x 1 =
1				FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7				
	0	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 ft)		- 10tal 0010l		1 - Rapid Test for Hydrophytic Vegetation
1. Glycine max	100	No	UPL	2 - Dominance Test is >50%
2.				3 - Prevalence Index is ≤3.0¹
3.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4				(i Tovide Supporting data in Nemarks of on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Tree – Woody plants 3 in. (7.6 cm) or more in
10				diameter at breast height (DBH), regardless of height.
11				
12				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	100	Total Cause		
Woody Vine Stratum (Plot size: 30 ft )		= Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				Woody vines – All woody vines greater than 3.28 ft in
2.	-			height.
3				Undrankutia
4	0	= Total Cover		Hydrophytic Vegetation Present? Yes No X
		= Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

		he depth neede				tor or co	nfirm the absence of ind	icators.)	
Depth (inches)	Matrix Color (moist)	% Color		Feature		1002	Toytura	Remarks	
(inches)	Color (moist)	% Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10YR 3/2	100							
¹Type: C=Co	oncentration, D=Depletion	on, RM=Reduce	ed Matrix, M	1S=Masl	ked Sand	Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil I	ndicators:						Indicators for F	Problematic Hydric So	ils³:
Histosol (	A1)	Poly	value Below	Surface	(S8) (MLR	A 147, 148)	2 cm Muck (/	A10) (MLRA 147)	
Histic Epi	pedon (A2)		Dark Surfac				Coast Prairie	Redox (A16) (MLRA 147, 14	18)
Black His	tic (A3)	Loa	my Gleyed M	latrix (F2)	)		Piedmont Flo	oodplain Soils (F19) (MLRA	146, 147)
	Sulfide (A4)	·	leted Matrix (					Dark Surface (TF12)	
	Layers (A5)		ox Dark Surf					in in Remarks)	
	k (A10) (LRR N)	·	leted Dark S		7)			,	
	Below Dark Surface (A11)		ox Depressio		,				
	k Surface (A12)		-Manganese		(F12) (LRF	R N. MLRA 1	136)		
	ucky Mineral (S1) (LRR N,		oric Surface (				,		
MLRA 147			mont Floodp						
	eyed Matrix (S4)		Parent Mate						
Sandy Re		1100	T Gront Mate	/// (1 Z 1)	(IIILIOA 12	, 14.,			
	Matrix (S6)								
Dark Surf		<sup>3</sup> Indicators	of hydroph	ytic veg	etation a	nd wetlar	nd hydrology must be pres	ent, unless disturbed or	problematic
	ayer (if observed):								
Type: _									
Depth (in	ches):						Hydric Soil Present?	YesN	lo_X_
Remarks:									
rtomanto.									

# APPENDIX C Photographic Log

Resp. to 1 RFI 37



#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**Date:** 7/16/2024

Coordinates:

37.750704, -86.483233

**Photo Direction:** 

Ν

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.

**Date:** 7/16/2024

Coordinates:

37.7458672, -86.485319

**Photo Direction:** 

Ε

Description:

Palustrine Unconsolidated Bottom (PUB) Pond P022





**PHOTOGRAPHIC LOG** 

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**Date:** 7/16/2024

Coordinates:

37.74533, -86.4780107

**Photo Direction:** 

SE

Description:

Palustrine Unconsolidated Bottom (PUB) Pond P023



Resp. to 1 RFI 37



#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**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.

**Date:** 7/16/2024

Coordinates:

37.75085, -86.473133

**Photo Direction:** 

NW

Description:

Palustrine Unconsolidated Bottom (PUB) Pond P025







Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**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:





### PHOTOGRAPHIC LOG

**Project Name:** Clover Creek Solar

County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

Date: 7/16/2024

Coordinates:

37.7555432, -86.4748015

**Photo Direction:** 

ΝE

Description:

Palustrine Unconsolidated Bottom (PUB) Pond P028





### PHOTOGRAPHIC LOG

**Project Name:** Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Date: Photo No. 7/16/2024 10

Coordinates:

37.7603641, -86.477378

**Photo Direction:** 

Description:





#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**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:







Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**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:





#### **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. Date: 7/17/2024

Coordinates:

37.734912, -86.4794454

**Photo Direction:** 

SE

Description:





#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**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. Date: 7/17/2024

Coordinates:

37.7689006, -86.4832974

**Photo Direction:** 

SW

Description:







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:

Description:

Palustrine Emergent (PEM) Wetland W027 at DP-12







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:** 

ΝE

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. 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:** 

Description:

Upstream view of intermittent stream S154







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:** 

ΝE

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:





#### **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:** 

Ν

Description:





#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**Date:** 7/16/2024

Coordinates:

37.7529770. -86.4797382

**Photo Direction:** 

ΝE

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:





#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State: Breckinridge County, Kentucky Project No. 235300918

Photo No.

**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. Date: 7/16/2024

Coordinates:

37.7506380, -86.4835622

Photo Direction:

SE

Description:





#### **PHOTOGRAPHIC LOG**

Project Name: Clover Creek Solar County/State:

Breckinridge County, Kentucky

Project No. 235300918

Photo No.

**Date:** 7/17/2024

Coordinates:

37.7436284, 86.4661250

**Photo Direction:** 

ΝE

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







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 7

**Date:** 7/17/2024

Coordinates:

37.7513349, -86.4609997

Photo Direction:

Description:





#### **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:





#### **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:

ΝE

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





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. Date: 7/17/2024

Coordinates:

37.7411064, -86.4864226

**Photo Direction:** 

Ν

Description:







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:** 

Ν

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:





#### **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:







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:** 

ΝE

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:





#### **PHOTOGRAPHIC LOG**

Project Name: County/State:
Clover Creek Solar Breckinridge County, Kentucky

Project No. 235300918

Photo No. Date: 7/17/2024

Coordinates:

37.7394766, -86.4817319

Photo Direction:

Ν

Description:

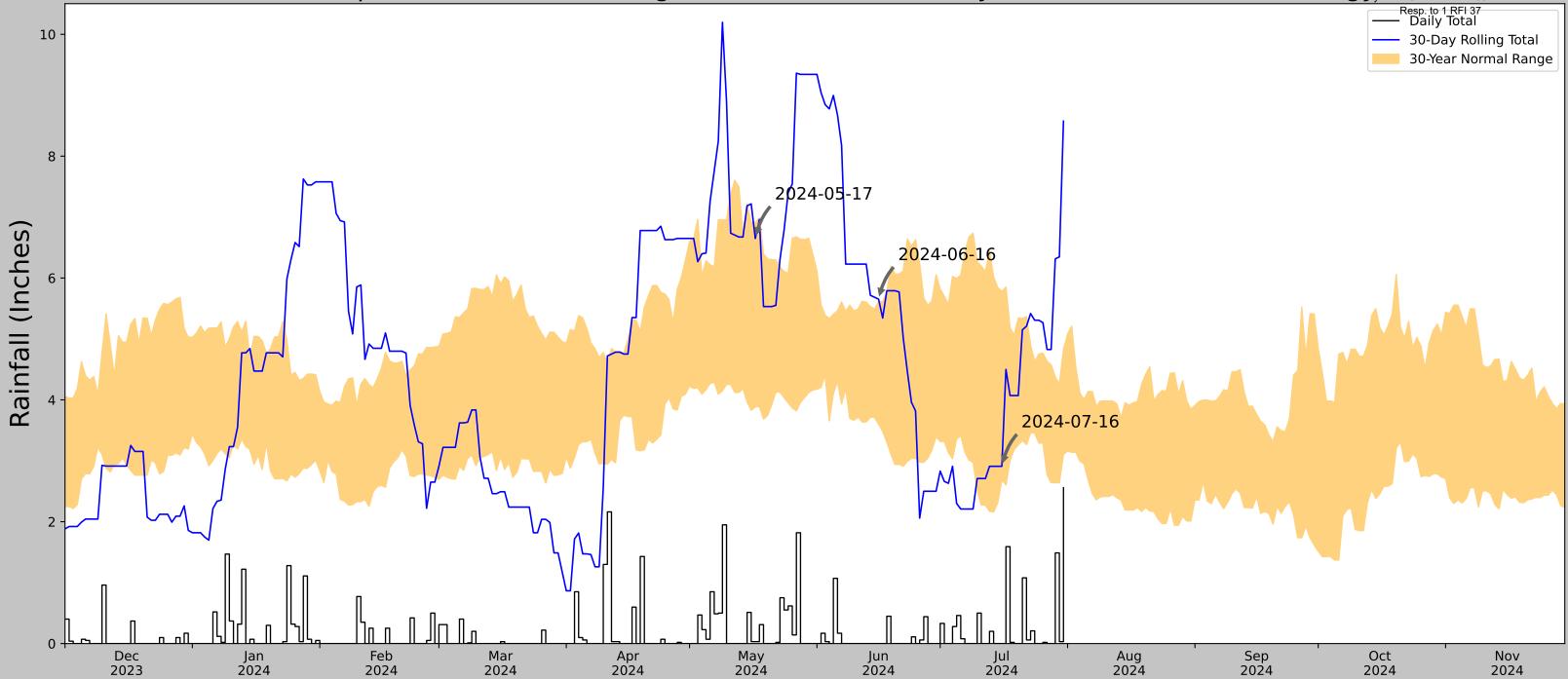
Upstream view of intermittent stream S179



### **APPENDIX D**

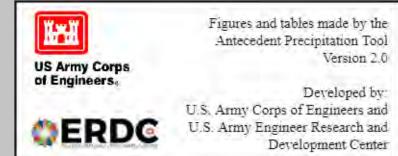
# **Antecedent Precipitation Tool Results**

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



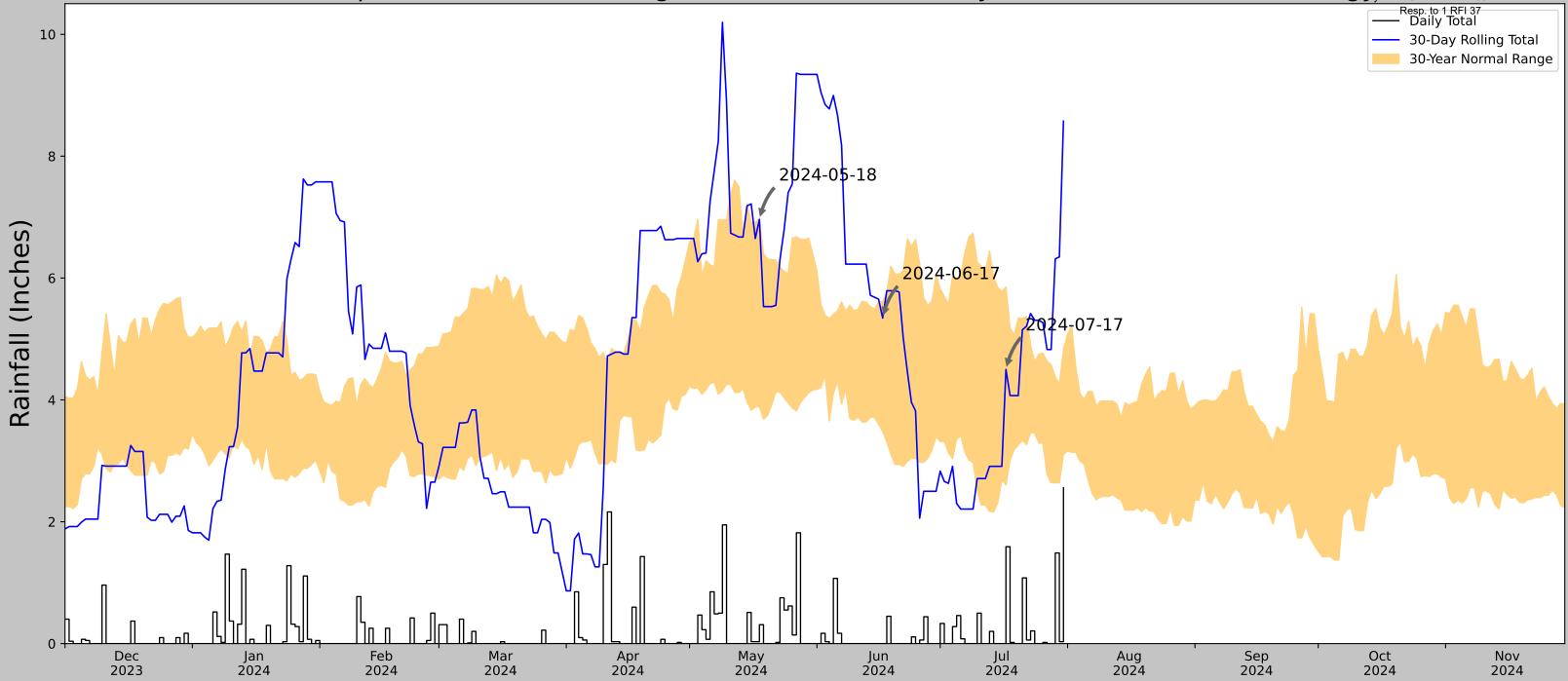
Coordinates	37.7507059, -86.4838820
Observation Date	2024-07-16
Elevation (ft)	631.628
Drought Index (PDSI)	Incipient wetness (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %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



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



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

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %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

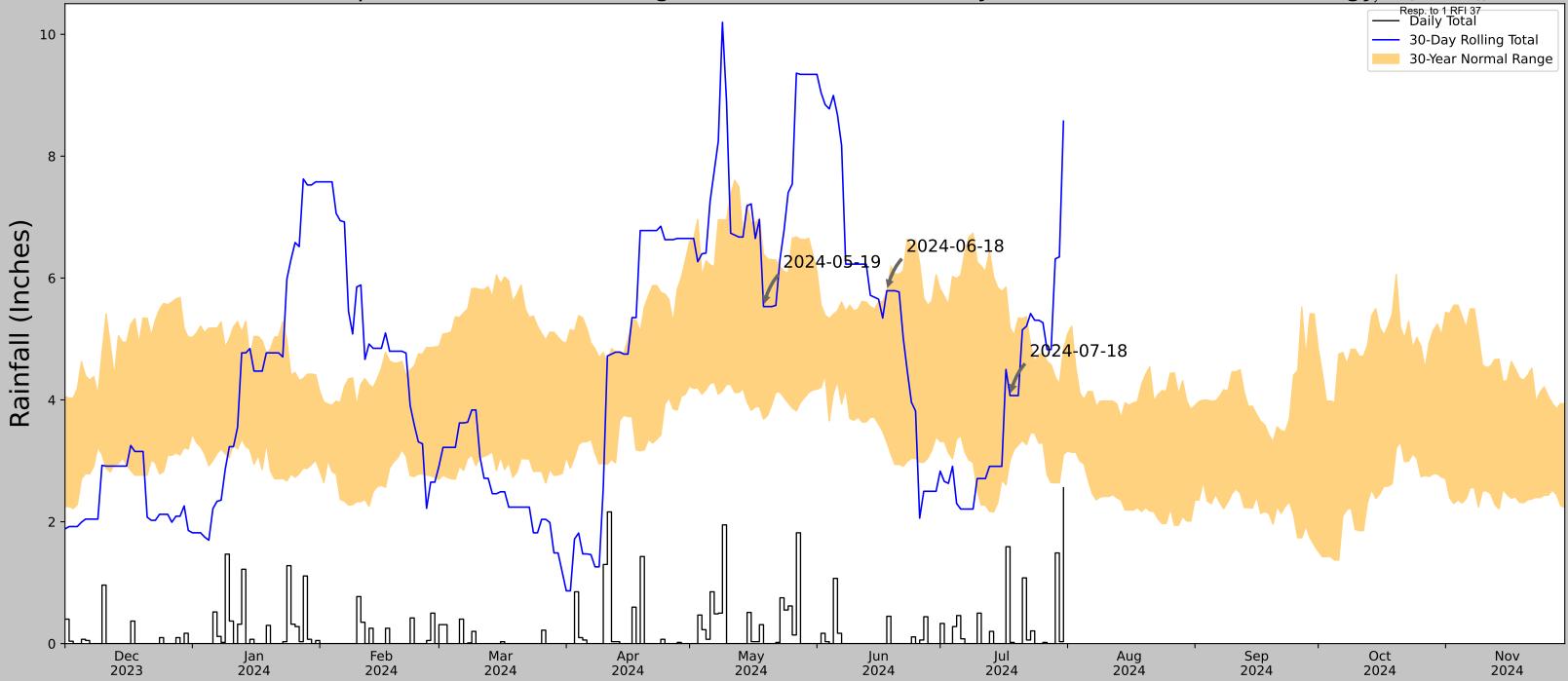


Figures and tables made by the Antecedent Precipitation Tool Version 2.0

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

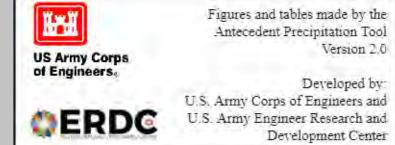
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ROUGH RVR LAKE	37.6178, -86.5044	560.039	9.251	71.589	4.825	11233	87
MCDANIELS	37.6497, -86.4308	424.869	4.591	135.17	2.687	87	3
CANEYVILLE 1W	37.4183, -86.5008	580.053	13.786	20.014	6.48	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



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

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %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



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