

September 15, 2022

U.S. Army Corps of Engineers – St. Louis District

Attn: Regulatory Branch 1222 Spruce Street St. Louis, MO 63103

Subject: Wetland and Stream Delineation Report

NorthPoint Development

Maryland Heights, St. Louis County, Missouri

CEC Project 324-613

Dear Regulatory Branch:

Civil & Environmental Consultants, Inc. (CEC) is pleased to submit this Wetland and Stream Delineation Report for a proposed development located in Maryland Heights, St. Louis County, Missouri (38.733591, -90.506924). This report details the technical criteria, field indicators, and other sources of information used to delineate wetlands, streams, and other waterbodies on the referenced property. Based on the findings of the delineation, nine (9) wetlands were identified and delineated within the limits of the survey area. It is CEC's opinion that none of these wetlands (WTL-1 through WTL-9) would likely be subject to U.S. Army Corps of Engineers jurisdiction and would be excluded from Clean Water Act Section 404 permitting requirements.

At this time, we are requesting concurrence with our wetland and stream delineation from your office through the approved jurisdictional determination process.

If you have any questions concerning this report, please contact Katie Astroth at (314) 656-4566 or by e-mail at kastroth@cecinc.com.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Ryan R. Thies

Assistant Project Manager

Ecological Sciences

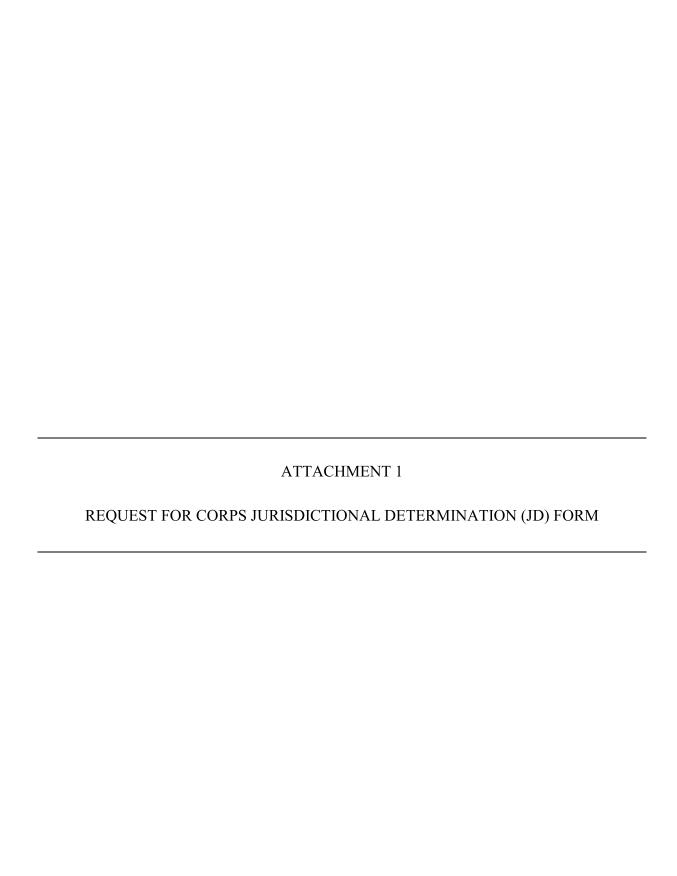
Katie L. Astroth, PWS

Kate Ostroth

Project Manager Ecological Sciences

Enclosures: Attachment 1 – Request for Corps Jurisdictional Determination (JD) Form

Attachment 2 – Wetland and Stream Delineation Report



Appendix 1 - REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

To: St. Louis District

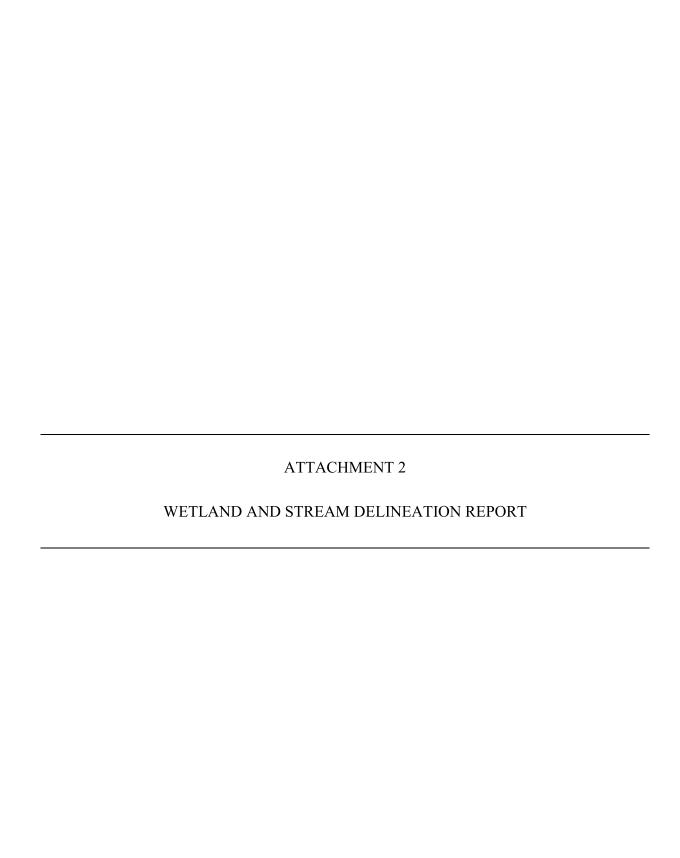
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•	Typed or printed name:	Katie L. Astroth					
	Company name:	Civil & Environmental Con	sultants, Inc.				
	Address:	3000 Little Hills Expresswa	y, Suite 102				
		Saint Charles, MO 63301					
	Daytime phone no.:	314-656-4566					
	Email address:	kastroth@cecinc.com					

*Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332. **Principal Purpose:** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project

area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.



WETLAND AND STREAM DELINEATION REPORT

NORTHPOINT DEVELOPMENT MARYLAND HEIGHT, ST. LOUIS COUNTY, MISSOURI

Prepared For:

NORTHPOINT DEVELOPMENT, LLC 12977 N. FORTY DRIVE, SUITE 203 ST. LOUIS, MISSOURI 63141

Prepared By:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ST. LOUIS, MISSOURI

CEC Project 324-613

SEPTEMBER 2022



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1.0 INTRODUCTION

Civil & Environmental Consultants, Inc. (CEC) conducted a wetland and stream delineation on August 17-18, 2022, of a property located northwest of the intersection of Sport Port Road and Hooks River Road in Maryland Heights, St. Louis County, Missouri (38.733591, - 90.506924; Figure 1). The purpose of this study was to identify, delineate, and classify wetlands, streams, and other waters located within an approximately 170-acre parcel (survey area). This report presents the methodology and findings of the study.

2.0 METHODOLOGY

2.1 PRELIMINARY DATA GATHERING

The following data sources were reviewed to aid in the identification and delineation of wetlands, streams, and other waters within the survey area:

- U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle maps;
- U.S. Department of Agriculture, Natural Resource Conservation Service (USDA-NRCS) Web Soil Survey (WSS) Database;
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI);
- Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL);
- USGS National Hydrography Dataset (NHD); and
- Historical aerial imagery from various sources.

These data sources were used to produce field maps and develop a plan for conducting the fieldwork. Data from sampling locations throughout the survey area were collected to intersect plant community cover types and areas of interest (e.g., saturation visible on aerial imagery, hydric soil map units, NWI wetlands, etc.).

2.2 WETLAND DELINEATION

CEC ecologists reviewed the survey area for potential wetlands in accordance with the routine, onsite determination methodology described in the U.S. Army Corps of Engineers (USACE) Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987); referred to hereafter as USACE Manual, supplemented by the following technical guidance documents:

- Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) (USACE 2010); referred to hereafter as Regional Supplement;
- National Wetland Plant List, Version 3.5 (USACE 2020); and
- Field Indicators of Hydric Soils in the United States (USDA-NRCS 2018).

The wetland delineation was based on CEC's professional judgment and interpretation of the routine delineation methodology and technical criteria presented in the technical guidance documents. CEC ecologists traversed the survey area and collected sample point data at representative locations within major plant community cover types and areas of interest. Data collected at each sample point was recorded on a Wetland Determination Data Form.

At each sample point, the following parameters were assessed: vegetation, soils, and hydrology. Visual estimates of percent absolute cover of the plant species present were recorded for each of the following stratums, when present: tree, sapling/shrub, herbaceous, and woody vine. The sampling point was determined to be dominated by hydrophytic (wetland) vegetation if it met the indicators for the Rapid Test, Dominance Test, or Prevalence Index. Soils were sampled to a depth of at least 12 inches, and the soil profile was evaluated to determine if it exhibited hydric soil indicators. Wetland hydrology indicators (e.g. surface water, high water table, saturation, etc.) were recorded, if present. If a parameter was determined to be significantly disturbed or naturally problematic, procedures described in the USACE Manual and Regional Supplement for atypical and problematic situations were applied. A sample point was determined to be within a wetland if indicators were met for all three parameters (vegetation, soils, and hydrology).

The onsite sample point data, in conjunction with the information compiled during the preliminary data gathering, were used to determine if the sample point was located within a wetland. If a wetland was identified, further sampling was performed to locate the wetland/non-wetland boundary. Each wetland was also classified according to the system developed by Cowardin et al. (1979):

- Palustrine Emergent Wetland (PEM): Wetland characterized by rooted herbaceous and
 grass like plants which stand erect above the water or ground surface (excluding mosses or
 lichens). Vegetation is present for most of the growing season in most years. Emergent
 wetlands include marshes, meadows, and fens.
- Palustrine Scrub-shrub Wetland (PSS): Wetland dominated by woody vegetation less than 20 feet tall. Plant species include true shrubs, young trees, and trees or shrubs that are

small or stunted because of environmental conditions. Scrub-shrub wetlands include shrub swamps and bogs.

- Palustrine Forested Wetland (PFO): Wetland dominated by woody vegetation 20 feet or taller. Forested wetlands, generally include an overstory of trees, an understory of young trees and shrubs, and an herbaceous layer.
- Palustrine Unconsolidated Bottom (PUB): Nontidal wetland lacking vegetation but are less than 8 ha (20 acres) in size with a water depth in the deepest part of basin less than 2.5 m (8.2 ft) at low water. Includes all wetlands and deepwater habitats with at least 25 percent cover of particles smaller than stones (less than 6-7 cm), and a vegetative cover less than 30 percent.

If more than one Cowardin classification type was identified within a wetland, the boundary between the types was located. The locations and extents of identified wetland and water features were recorded using a mapping-grade handheld Global Navigational Satellite System (GNSS) receiver.

2.3 STREAM AND OTHER WATERS DELINEATION

Concurrent with the wetland delineation, CEC ecologists assessed the survey area for streams and other waters such as ponds, seeps, springs, and vernal pools. These aquatic resources can be identified by the presence of an ordinary high water mark (OHWM) in accordance with USACE Regulatory Guidance Letter No. 05-05: Ordinary High Water Mark Identification (USACE 2005). An OHWM is defined by the Code of Federal Regulations (CFR) Part 328.3(e) as "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" (U.S. Congress 1986). Open water features were classified according to the system developed by Cowardin et al. (1979) as described in Section 2.2.

For streams, physical and biological data were used to infer the stream's hydrologic flow regime, using a weight-of-evidence approach. CEC used field indicators such as flow, substrate composition, presence of defined bed and bank, origin of hydrologic sources, presence/absence of vegetation within the stream channel, and presence/absence benthic macroinvertebrates, fish, and other aquatic biota to classify onsite stream segments into one of three stream types as defined by USACE (2017):

- An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.
- An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.
- A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

The uppermost limit of an ephemeral stream is established where the stream loses its defined bed and bank or ordinary high water mark, and a predominance of upland vegetation is observed within the channel. When present, streams were mapped using a mapping-grade handheld GNSS receiver.

3.0 FINDINGS

3.1 FINDINGS OF PRELIMINARY DATA GATHERING

The USGS topographic map indicated no mapped blue-line stream or other aquatic features within the survey area (Figure 1). The USFWS NWI identified one (1) emergent wetland (PEM1Ad) within the northeast portion of the survey area (Figure 2). No aquatic features were identified by the NHD and portions of the survey area are located within a 100-year floodplain per the FEMA NFHL (Figure 3).

Soil map units from the NRCS WSS dataset that occur within the survey area are listed in Table 1. The mapped soil units include both hydric and non-hydric soils. Refer to Figure 4 for location of soil map units within the survey area.

Table 1 NRCS WSS Soil Mapping Units Found within the Survey Area

Soil Map Unit Symbol	Soil Map Unit Name	Hydric Rating
13598	Booker silty clay frequently ponded, 0 to 2 percent slopes, occasionally flooded	Hydric
66019	Lowmo silt loam, 0 to 2 percent slopes, occasionally flooded	Hydric
66023	Sarpy fine sand, 0 to 2 percent slopes, occasionally flooded	Non-Hydric
66059	Peers silty clay loam, 0 to 2 percent slopes, occasionally flooded	Hydric
66110	SansDessein silty clay, 0 to 2 percent slopes, occasionally flooded	Hydric

3.2 FINDINGS OF WETLAND AND STREAM DELINEATION

The survey area consisted of mostly agricultural land. In total, nine (9) wetlands were identified within the survey area (Figure 4). Wetland Determination Data Forms are included in Appendix A and a photographic summary is included in Appendix B.

An analysis of the Antecedent Precipitation Tool (APT) indicated wetter than normal conditions at the time of the field survey and is included in Appendix C.

3.2.1 Wetlands

Seven (7) emergent (PEM) wetlands, one (1) forested (PFO) wetland, and one (1) scrub-shrub (PSS)/emergent (PEM) wetland were identified within the survey area. Each delineated wetland is described in detail below, and a summary of the wetlands is provided in Table 2.

Wetland 1 (WTL-1) is a 4.18-acre PEM wetland located in a swale/depression of an agricultural field within the northeastern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-1 and SP-2; Appendix A), the vegetation was problematic at both sample point locations as the area did not contain a natural plant community due to active farming practices. According to the MunsellTM color chart, SP-1 soils were 10YR 3/2 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6 and 10YR 5/1), meeting the hydric soil indicator for redox dark surface (F6) and depleted dark surface (F7). SP-2 soils were 10YR 3/2 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6 and 10YR 5/1), meeting the hydric soil indicator for redox dark surface (F6). Wetland hydrology indicators for SP-1 included algal mat or crust (B4), iron deposits (B5), inundation visible on aerial imagery (B7), sparsely vegetated concave surface (B8), surface soil cracks (B6), and drainage patterns (B10); while SP-2 included saturation visible on aerial imagery (C9) and stunted or stressed plants (D2). WTL-1 is an isolated wetland that has no significant nexus to a traditional navigable water (TNW). Agriculture has been the dominant historical land use of this area and has altered the natural landscape. Additionally, developments east of the survey area, including the Missouri River Treatment Plant, has further isolated and disconnected this wetland from other potentially jurisdictional waters. WTL-1 does not have a significant relationship to the physical, chemical, or biological integrity of a TNW. WTL-1 has minimal function or value as a wetland. Therefore, it is CEC's professional opinion that WTL-1 is likely not subject to USACE jurisdiction.

Wetland 2 (WTL-2) is a 0.44-acre PEM wetland located in a depression within an agricultural field in the eastern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-4; Appendix A), the vegetation was problematic as the area did not contain a natural plant community due to active farming practices. According to the MunsellTM color chart, SP-4 soils were 10YR 3/2 from the soil surface to a depth of 16 inches with redoximorphic features

(10YR 3/6 and 10YR 6/1). The soil at this sample point was considered problematic hydric soils due to seasonal ponding and disturbances to the soil profile from farming practices. The soils were borderline on meeting the hydric soil indicator for redox dark surface (F6). Wetland hydrology indicators for SP-4 included algal mat or crust (B4), drainage patterns (B10), saturation visible on aerial imagery (C9), and stunted or stressed plants (D1). This area was delineated as wetland due to the presence of both primary and secondary wetland hydrology indicators. WTL-2 is an isolated wetland that appears to be confined to the agricultural field. WTL-2 does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-2 has minimal function or value as a wetland. Since WTL-2 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-2 is likely not subject to USACE jurisdiction.

Wetland 3 (WTL-3) is a 0.22-acre PEM wetland located in a depression within an agricultural field in the eastern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-5; Appendix A), the vegetation was problematic as it did not contain a natural plant community due to active farming practices. According to the MunsellTM color chart, SP-5 soils were 10YR 3/2 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6 and 10YR 5/1), meeting the hydric soil indicator for redox dark surface (F6). Wetland hydrology indicators for SP-5 included algal mat or crust (B4), surface soil cracks (B6), saturation visible on aerial imagery (C9), and stunted or stressed plants (D1). WTL-3 is an isolated wetland that appears to be confined to the agricultural field. WTL-3 does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-3 has minimal function or value as a wetland. Since WTL-3 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-3 is likely not subject to USACE jurisdiction.

Wetland 4 (WTL-4) is a 0.35-acre PEM wetland located in a depression within an agricultural field in the eastern portion of the survey area (Figure 5). As indicated on the wetland determination

data form (SP-7; Appendix A), the observed vegetation included prostrate pigweed (*Amaranthus albus*) and yellow nutsedge (*Cyperus esculentus*) but the vegetation was largely problematic as the area did not include a natural plant community. According to the MunsellTM color chart, SP-7 soils were 10YR 3/2 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6 and 10YR 5/1). The soil at this sample point was considered problematic hydric soils due to seasonal ponding and disturbances to the soil profile from farming practices. The soils were borderline on meeting the hydric soil indicator for redox dark surface (F6). Wetland hydrology indicators for SP-7 included algal mat or crust (B4) and saturation visible on aerial imagery (C9). This area was delineated as wetland due to the presence of both primary and secondary wetland hydrology indicators. WTL-4 is an isolated wetland that appears to be confined to the agricultural field. WTL-4 does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-4 has minimal function or value as a wetland. Since WTL-4 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-4 is likely not subject to USACE jurisdiction.

Wetland 5 (WTL-5) is a 0.08-acre PEM/0.02-acre PSS wetland located in a depression in the southeastern portion of the survey area (Figure 5). As indicated on the wetland determination data form SP-8 (Appendix A), the vegetation was problematic within the PEM portion as the area did not contain a natural plant community due to active farming practices. For SP-10 (Appendix A), PSS portion of WTL-5, the observed vegetation met the dominance test as hydrophytic vegetation indicator. The dominant vegetation observed was white mulberry (*Morus alba*) in the tree stratum; black willow (*salix nigra*) in the sapling/shrub stratum; curly dock (*Rumex crispus*), tapered rosette grass (*Dichanthelium acuminatum*), Pennsylvania smartweed (*Polygonum pensylvanicum*), eastern woodland sedge (*Carex blanda*), green bristlegrass (*Setaria viridis*), and johnsongrass (*Sorghum halepense*) in the herbaceous stratum; and riverbank grape (*Vitis riparia*) in the woody vine stratum. According to the MunsellTM color chart, SP-8 soils were 10YR 3/1 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6 and 10YR 5/1). SP-10 soils were 10YR 3/2 with redoximorphic features (10YR 5/1). The soils at these sample points were considered problematic hydric soils due to seasonal ponding and disturbances to the soil

profile from farming practices. The soils were borderline on meeting the hydric soil indicator for redox dark surface (F6). Wetland hydrology indicators for SP-8 included algal mat or crust (B4), sparsely vegetated concave surface (B8), surface soil cracks (B6), drainage patterns (B10), and saturation visible on aerial imagery (C9); while SP-10 included drift deposits (B3), drainage patterns (B10), and FAC-neutral test. This area was delineated as wetland due to the presence of both primary and secondary wetland hydrology indicators, and the presence of hydrophytic vegetation. WTL-5 is an isolated wetland that appears to be confined to the agricultural field but does have connectivity to a constructed ditch (D-1) and WTL-6 just outside of the survey area. WTL-5 does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-5 has minimal function or value as a wetland. Since WTL-5 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-5 is likely not subject to USACE jurisdiction.

Wetland 6 (WTL-6) is a 0.11-acre PFO wetland located in a depression surrounded by trees just outside the boundary of the southeastern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-9, Appendix A), the observed vegetation for SP-9 met the dominance test as hydrophytic vegetation indicator. The dominant vegetation observed was eastern cottonwood (Populus deltoides), black willow, and river birch (Betula nigra) in the tree stratum; black willow, white mulberry, and roughleaf dogwood (Cornus drummondii) in the sapling/shrub stratum; and riverbank grape in the woody vine stratum. According to the MunsellTM color chart, SP-9 soils were 10YR 4/1 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6), meeting the hydric soil indicator for depleted matrix (F3). Wetland hydrology indicators for SP-9 included high water table (A2), saturation (A3), drift deposits (B3), aquatic fauna (B13), drainage patterns (B10), geomorphic position (D2), and FACneutral test (D5). It should be noted that the high water table and saturation hydrology indicators for this wetland may be due to the wetter than normal conditions at the time of the field visit. WTL-6 is an isolated wetland that has a direct connection to a constructed ditch (D-1). WTL-6 does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW.

Therefore, WTL-6 has minimal function or value as a wetland. Since WTL-6 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-6 is likely not subject to USACE jurisdiction.

Wetland 7 (WTL-7) is a 0.02-acre PEM wetland located at the toe of a slope between a levee and an agricultural field along and just outside the northeastern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-12, Appendix A), the observed vegetation met the dominance test as hydrophytic vegetation indicator. The dominant vegetation observed was rice cutgrass (Leersia oryzoides) in the herbaceous stratum. According to the MunsellTM color chart, SP-12 soils were 10YR 3/1 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6 and 10YR 5/1), meeting the hydric soil indicator for redox dark surface (F6). Wetland hydrology indicators for SP-12 included surface water (A1), high water table (A2), saturation (A3), hydrogen sulfide odor (C1), geomorphic position (D2), and FAC-neutral test (D5). It should be noted that the surface water, high water table, and saturation hydrology indicators for this wetland may be due to the wetter than normal conditions at the time of the field visit. WTL-7 is an isolated wetland that does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-7 has minimal function or value as a wetland. Since WTL-7 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-7 is likely not subject to USACE jurisdiction.

Wetland 8 (WTL-8) is a 0.06-acre PEM wetland located at the toe of a slope between a levee and an agricultural field in and just outside the northwestern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-14, Appendix A), the observed vegetation met the dominance test as hydrophytic vegetation indicator. The dominant vegetation observed was rice cutgrass and calamus (*Acorus calamus*) in the herbaceous stratum. According to the MunsellTM color chart, SP-14 soils were 2.5Y 3/1 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6), meeting the hydric soil indicator for sandy redox (S5). The soil also had a hydrogen sulfide smell meeting the hydric soil indicator for hydrogen sulfide (A4).

Wetland hydrology indicators for SP-14 included surface water (A1), high water table (A2), saturation (A3), algal mat or crust (B4), aquatic fauna (B13), hydrogen sulfide odor (C1), geomorphic position (D2), and FAC-neutral test (D5). It should be noted that the surface water, high water table, and saturation hydrology indicators for this wetland may be due to the wetter than normal conditions at the time of the field visit. WTL-8 is an isolated wetland that does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-8 has minimal function or value as a wetland. Since WTL-8 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-8 is likely not subject to USACE jurisdiction.

Wetland 9 (WTL-9) is a 0.25-acre PEM wetland located at the toe of a slope between a levee and an agricultural field in the northwestern portion of the survey area (Figure 5). As indicated on the wetland determination data form (SP-16, Appendix A), the observed vegetation met the dominance test as hydrophytic vegetation indicator. The dominant vegetation observed was broadleaf cattail (typha latifolia) and softstem bulrush (Schoenoplectus tabernaemontani) in the herbaceous stratum. According to the MunsellTM color chart, SP-16 soils were 2.5Y 3/1 from the soil surface to a depth of 16 inches with redoximorphic features (10YR 3/6), meeting the hydric soil indicator for sandy redox (S5). The soil also had a hydrogen sulfide smell meeting the hydric soil indicator for hydrogen sulfide (A4). Wetland hydrology indicators for SP-16 included surface water (A1), high water table (A2), saturation (A3), algal mat or crust (B4), hydrogen sulfide odor (C1), stunted or stressed vegetation (D1), geomorphic position (D2), and FAC-neutral test (D5). It should be noted that the surface water, high water table, and saturation hydrology indicators for this wetland may be due to the wetter than normal conditions at the time of the field visit. WTL-9 is an isolated wetland that does not appear to have a direct or indirect surface connection to a TNW and does not appear to have any significant relationship to the physical, chemical, or biological integrity of a TNW. Therefore, WTL-9 has minimal function or value as a wetland. Since WTL-9 lacks a significant nexus to a TNW via other waters of the United States, it is CEC's professional opinion that WTL-9 is likely not subject to USACE jurisdiction.

Table 2 Wetlands Identified and Delineated within the Survey Area

Wetland ID	Acreage by Cowardin Classification ¹ PEM PSS PFO		Total Acreage ¹	Sampling Point(s)	CEC's Opinion of Jurisdictional Status ²	
WTL-1	4.18	-	-	4.18	SP-1, SP-2	Not Jurisdictional
WTL-2	0.44	-	-	0.44	SP-4	Not Jurisdictional
WTL-3	0.22	-	-	0.22	SP-5	Not Jurisdictional
WTL-4	0.35	-	-	0.35	SP-7	Not Jurisdictional
WTL-5	0.08	0.02	-	0.10	SP-8, SP-10	Not Jurisdictional
WTL-6	-	-	0.11	0.11	SP-9	Not Jurisdictional
WTL-7	0.02	-	-	0.02	SP-12	Not Jurisdictional
WTL-8	0.06	-	-	0.06	SP-14	Not Jurisdictional
WTL-9	0.25	-	-	0.25	SP-16	Not Jurisdictional
Total	5.6	0.02	0.11	5.73		

¹ Acreage includes wetland area within survey area only

3.2.2 Streams and Other Waters

There were no streams or other waters identified within the survey area.

One (1) constructed ditch (D-1) was observed during the field reconnaissance running along the southeast boundary of the survey area. This feature did not have defined bed and banks and did not appear to have groundwater input. This feature appears to only convey surface water run-off in direct response to precipitation events. Therefore, in CEC's professional opinion, this feature would not be subject to USACE jurisdiction.

² Based on the Pre-2015 regulatory regime, effective September 3, 2021.

4.0 CONCLUSIONS

During the field reconnaissance, seven (7) PEM wetlands, one (1) PFO wetland, one (1) PSS/PEM wetland were identified and delineated within the survey area. It is CEC's opinion that any proposed impacts to these wetlands would not be subject to USACE jurisdiction and Clean Water Act permitting requirements.

5.0 REGULATORY CONSIDERATIONS

A wetland and stream jurisdictional determination meeting (related to this delineation report) with regulatory agencies has not occurred at the site. Wetlands, streams, and other waters that meet the guidelines contained in the USACE Manual, Regional Supplement, and Regulatory Guidance Letter No. 05-05 are subject to regulation by USACE as "waters of the U.S.", as defined by 33 CFR 328.3(a) (U.S. Congress 1986). USACE has authority to permit the discharge of dredged or fill material into waters of the U.S. under Section 404 of the federal Clean Water Act (U.S. Congress 1977), and to permit work and the placement of structures in navigable waters under Sections 9 and 10 of the Rivers and Harbors Appropriation Act of 1899 (U.S. Congress 1899). Additionally, Section 401 of the Clean Water Act requires state agencies to evaluate whether discharges to these waters comply with state water quality standards (U.S. Congress 1977). A Section 401 Water Quality Certification is required for activities that require federal permits or authorizations.

6.0 LEVEL OF CARE

CEC's wetland and stream delineation services were conducted in a manner consistent with the criteria contained in the USACE Manual and Regional Supplement, and with the level of care and skill ordinarily exercised by members of the environmental consulting profession practicing contemporaneously under similar conditions in the locality of the project. It must be recognized that the delineation of waters of the U.S. was based on field observations and CEC's professional interpretation of the criteria in the USACE Manual and Regional Supplement at the time of our fieldwork. Wetland and stream determinations may change subsequent to CEC's delineation based on changes in the regulatory criteria, seasonal variations in hydrology, alterations to drainage patterns, and other human activities and/or land disturbances.

Date

Date

Report	Prepared	Bv	·
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Ryon	Thice	9/15/2022
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Ryan R. Thies Staff Scientist

Civil & Environmental Consultants, Inc.

Report Reviewed By:

Satie Ostroth 9/15/2022

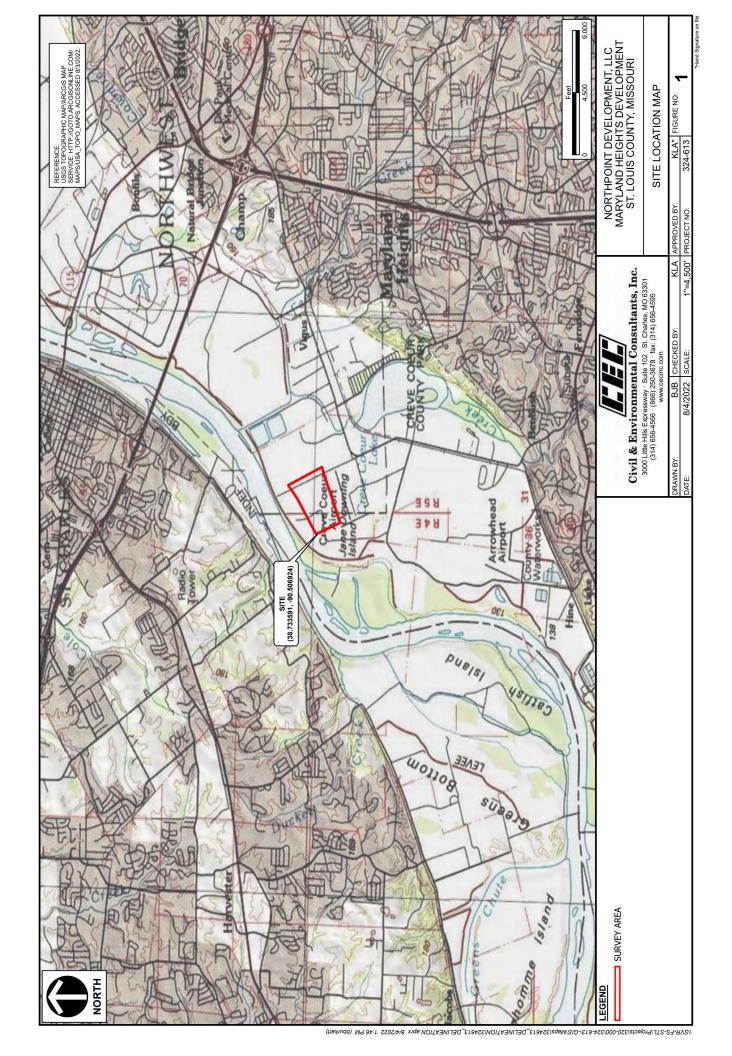
Katie L. Astroth, Project Manager

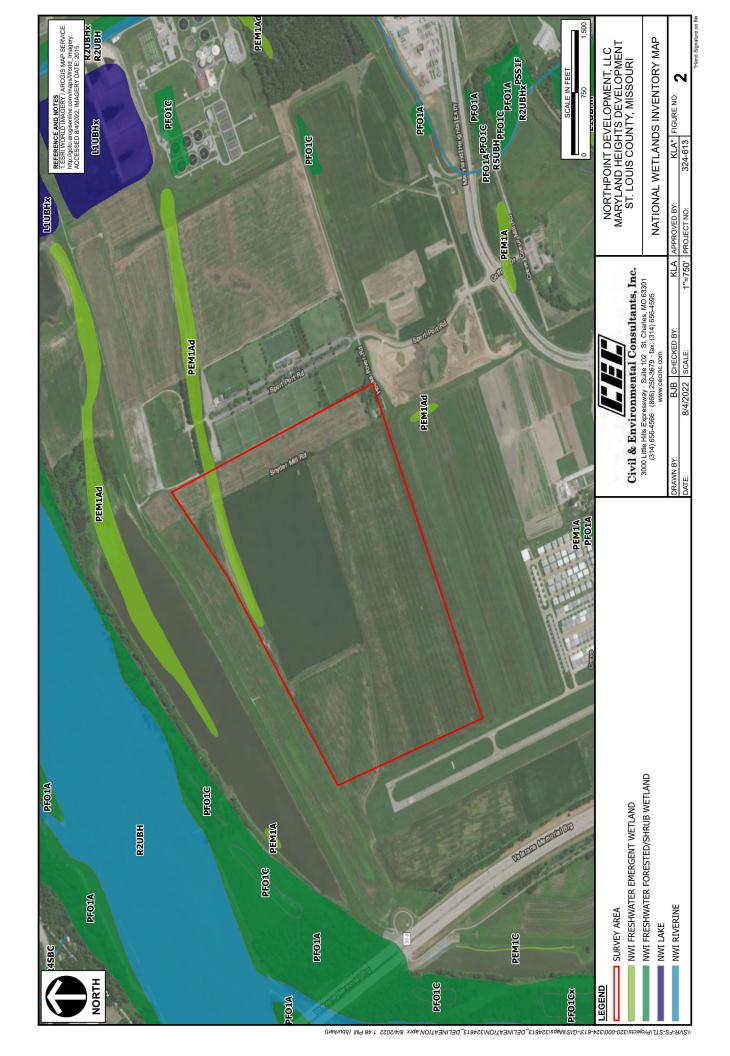
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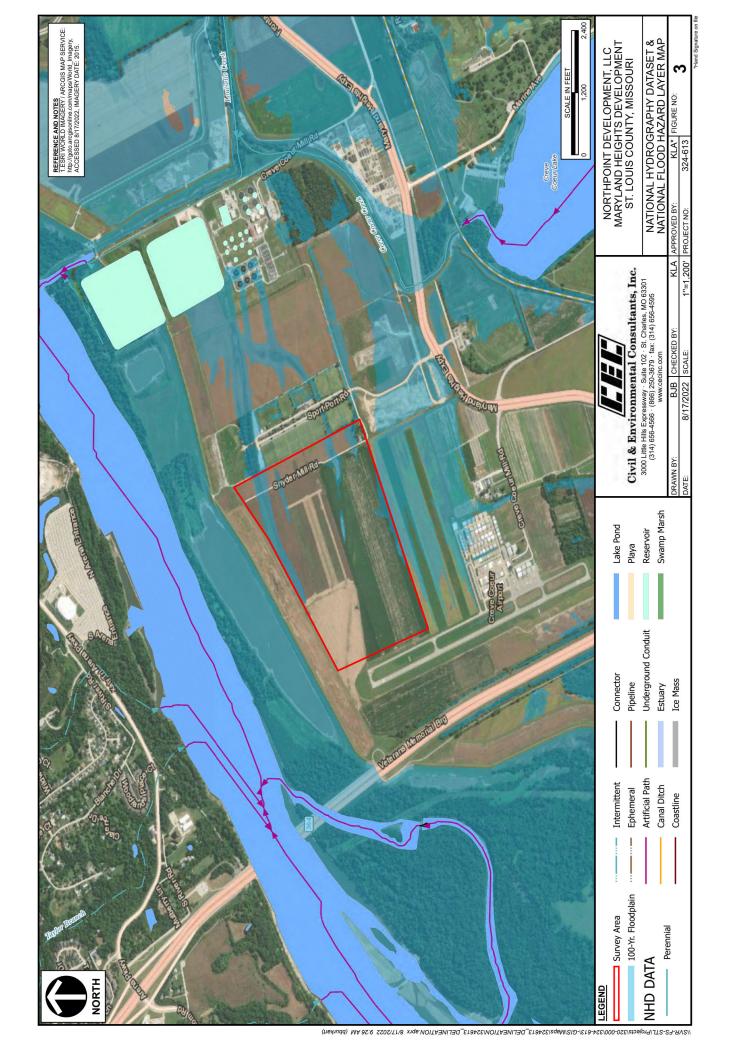
7.0 REFERENCES

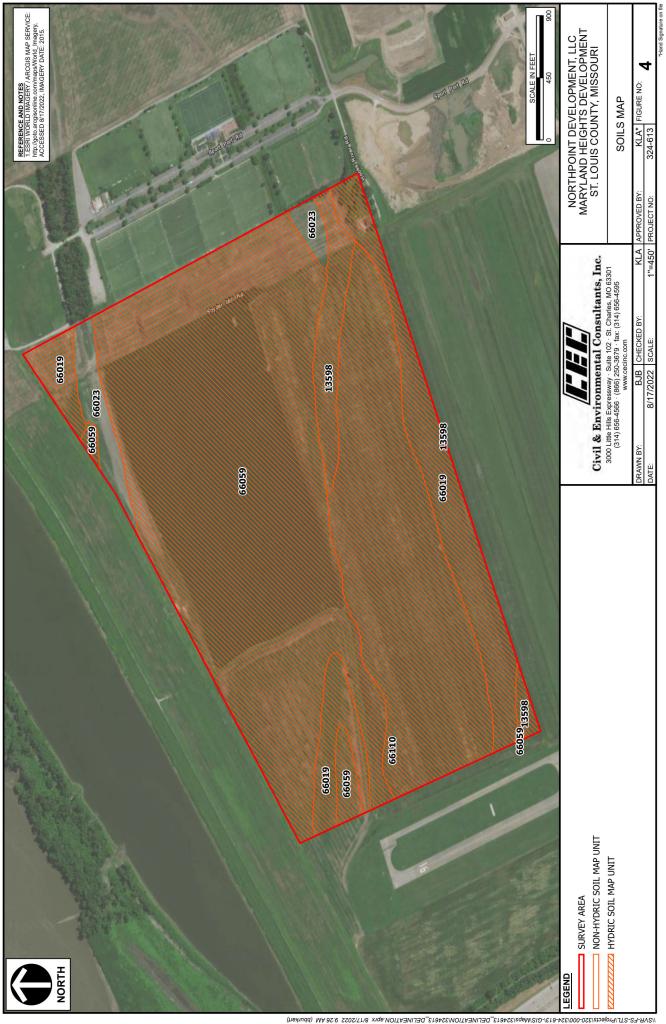
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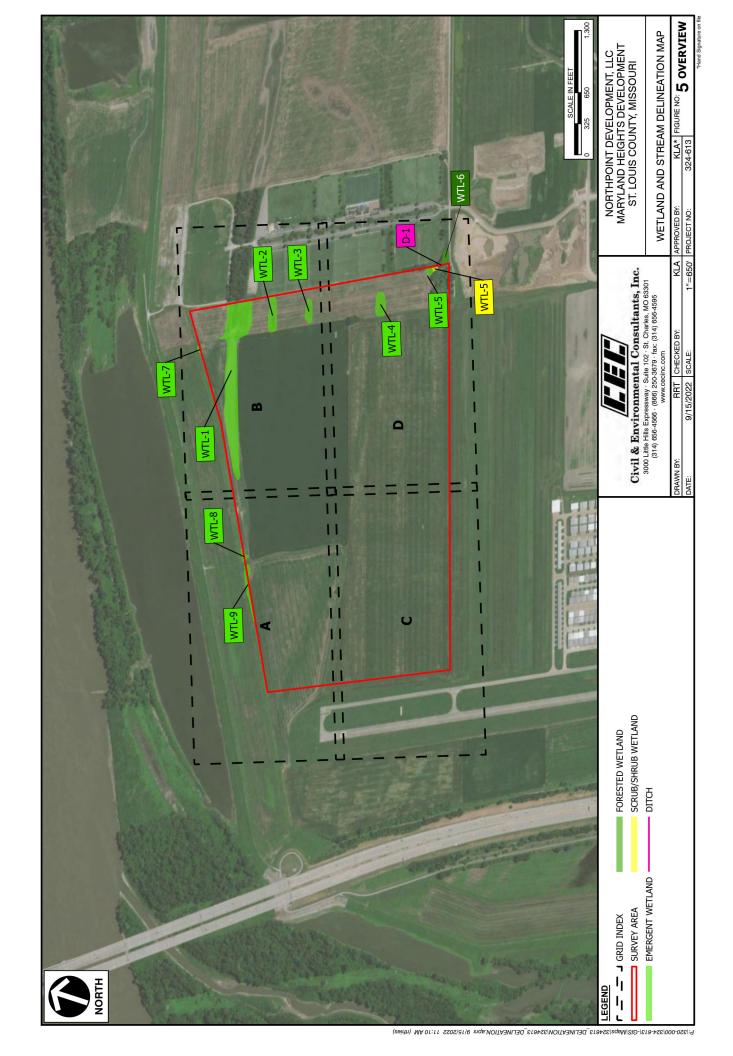


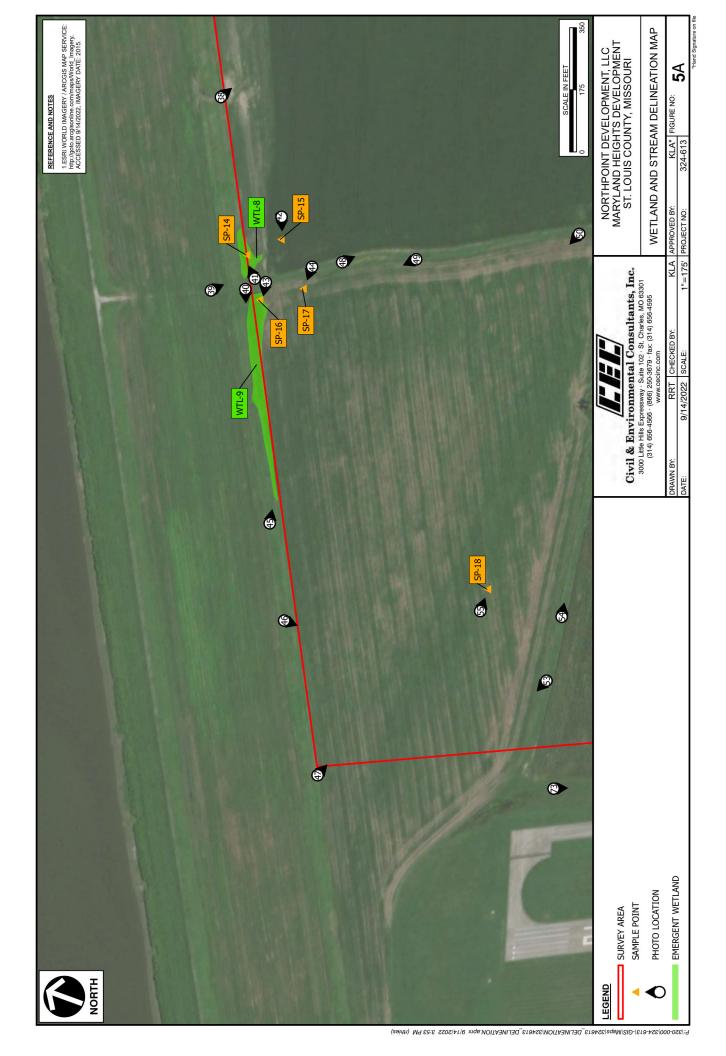


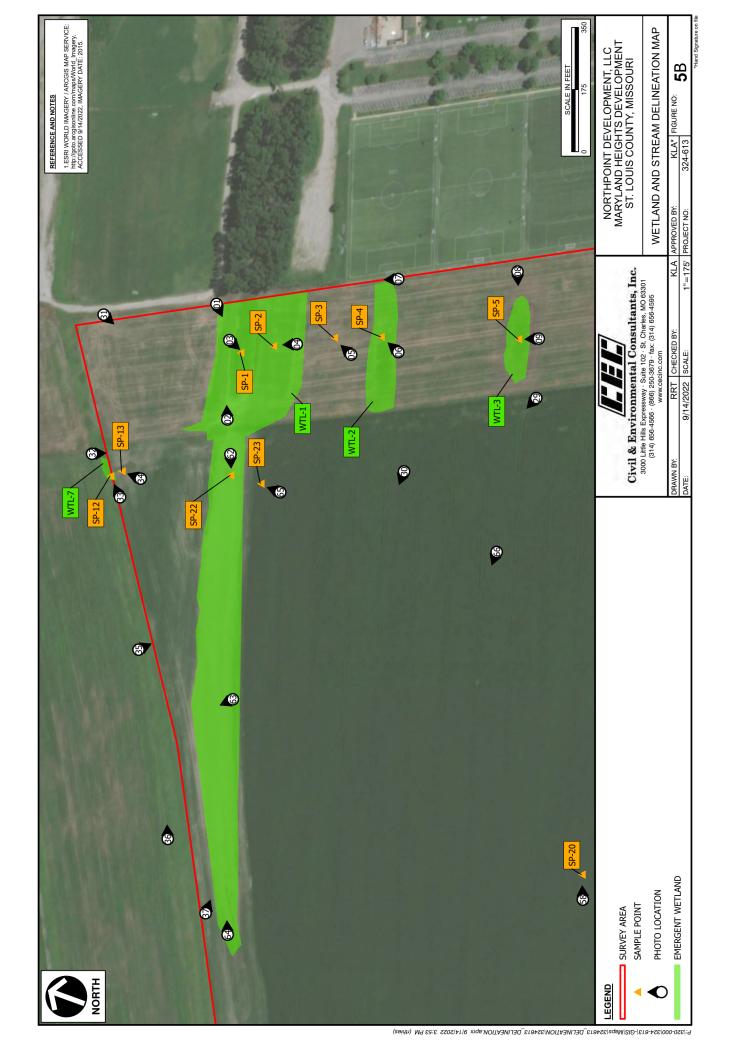


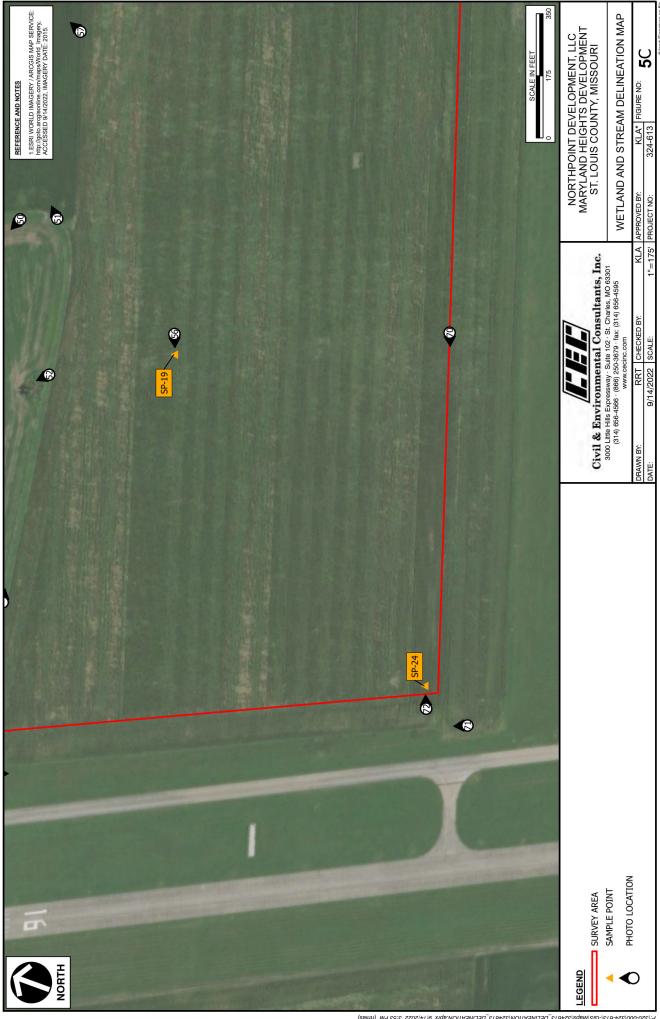


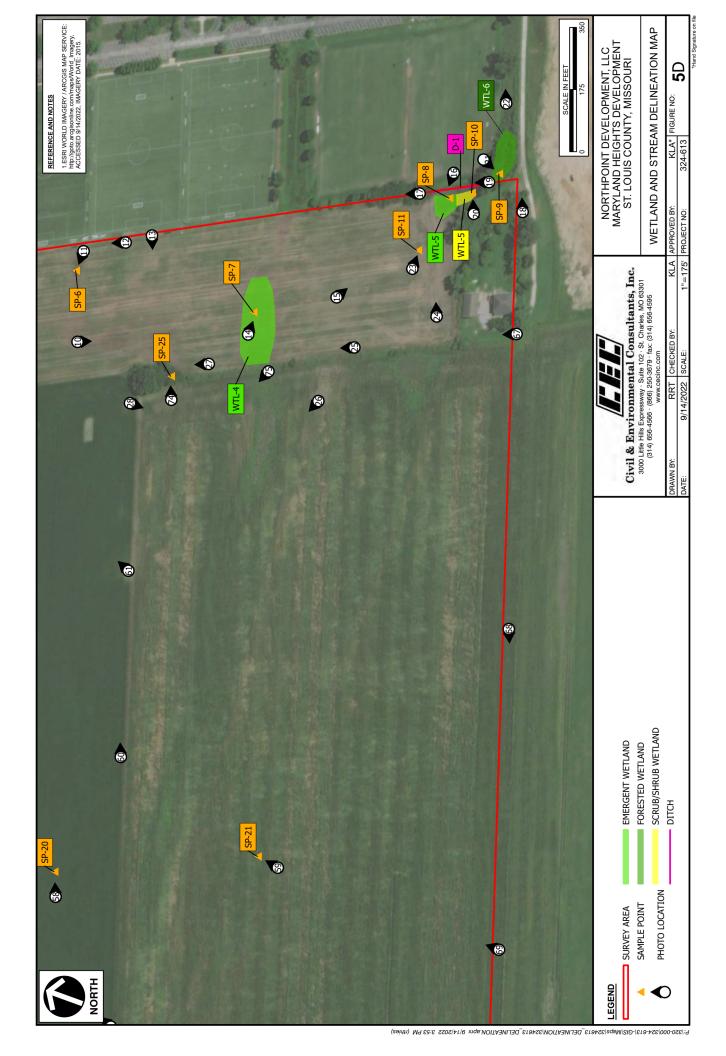














U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Marylar	nd Heights / St. Louis	Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC		State: MO	Sampling Point: SP-1
Investigator(s): B. Burkart and R. Thies	Section, Township, Ra	inge: N/A	
Landform (hillside, terrace, etc.): Swale/Depression	Local relief (concave, convex, none):	Concave
Slope (%): 0-5 Lat: 38.737681	Long: <u>-90.502689</u>		Datum: NAD 83
Soil Map Unit Name: Sarpy fine sand, 0 to 2 percent slopes, occa	sionally flooded.	NWI classif	cation: PEM1Ad
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes	No X (If no, exp	lain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly	disturbed? Are "Normal (Circumstances" present?	Yes No X
Are Vegetation, Soil, or Hydrologynaturally pro	oblematic? (If needed, ex	plain any answers in Ren	narks.)
SUMMARY OF FINDINGS – Attach site map show	ng sampling point lo	cations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled A within a Wetland		No
Remarks: The sample point was taken in a wetland that is loacated in a swistunted vegetation around the periphery of the area. Conditions v			as bare of vegetation with
VEGETATION – Use scientific names of plants.			
Tree Stratum (Plot size:) % Cover		Dominance Test wor	kshoot:
1		Number of Dominant S Are OBL, FACW, or FA	Species That
3		Total Number of Domi Across All Strata:	
5.	=Total Cover	Percent of Dominant S Are OBL, FACW, or F.	
Sapling/Shrub Stratum (Plot size:)		Duning and a landari was	ulva la a a 4.
1	· —— ——	Prevalence Index wo Total % Cover of:	
3.		OBL species	x 1 =
4.		FACW species	x 2 =
5.		FAC species	x 3 =
	=Total Cover	FACU species	x 4 =
Herb Stratum (Plot size:)		UPL species	x 5 =
1	· —— ——	Column Totals:	``
2. 3.		Prevalence Index =	= B/A =
4		Hydrophytic Vegetati	on Indicators:
5.		' ' '	Hydrophytic Vegetation
6.		2 - Dominance Te	
7.		3 - Prevalence Ind	lex is ≤3.0 ¹
8			Adaptations ¹ (Provide supporting
9			s or on a separate sheet)
10		I = -	pphytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	_=Total Cover	¹ Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.
1	· —— ——	Hydrophytic	
L	=Total Cover	Vegetation Present? Yes	No
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation was disturbed due to the sample point being in a soyt		matic.	

ENG FORM 6116-7, JUL 2018Midwest – Version 2.0

SOIL Sampling Point: SP-1

Profile Des	cription: (Descril	-		ument ti x Featur		ator or o	confirm the absence	of indicators.)	
(inches)	Color (moist)	<u> </u>	Color (moist)	% %	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/2	<u>75</u>	10YR 3/6	5	<u>C</u>	PL/M	Loamy/Clayey	Prominent redox concentrations	
-								Also has 10YR 5/1, 20%, D, M	
								- <u></u> -	
¹ Type: C=C	concentration, D=D	epletion. RM=R	Reduced Matrix. N	/IS=Mas	ked Sand	d Grains	Location 2	n: PL=Pore Lining, M=Matrix.	
	Indicators:		· · · · · · · · · · · · · · · · ·					rs for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			st Prairie Redox (A16)	
Histic E	pipedon (A2)		Sandy Redox (S5)				Iron-Manganese Masses (F12)		
Black Hi	istic (A3)		Stripped Matrix (S6)				Red Parent Material (F21)		
Hydroge	en Sulfide (A4)		Dark Surfa	ice (S7)			Very Shallow Dark Surface (F22)		
Stratified	d Layers (A5)		Loamy Mu	cky Mine	eral (F1)		Other (Explain in Remarks)		
2 cm Mu	uck (A10)		Loamy Gle	eyed Mat	trix (F2)				
Depleted	d Below Dark Surf	ace (A11)	Depleted I	∕latrix (F	3)		•		
	ark Surface (A12)		X Redox Dai		. ,		³ Indicators of hydrophytic vegetation and		
	Mucky Mineral (S1)		X Depleted Dark Surface (F7)				wetland hydrology must be present,		
5 cm Mi	ucky Peat or Peat	S3)	Redox Depressions (F8)				unless disturbed or problematic.		
_	Layer (if observe	d):							
Type:			_						
Depth (i	nches):		_				Hydric Soil Presen	<u> </u>	
Remarks:									
The soil was	s disturbed as the	sample point wa	as taken in a soy	bean/wh	eat field.				
HYDROLO	OGY								
Wetland Hy	drology Indicator	s:							
Primary Indi	icators (minimum o	f one is require	d; check all that	apply)			<u>Seconda</u>	ry Indicators (minimum of two required)	
Surface	Water (A1)		Water-Sta	ined Lea	ives (B9)		X Surfa	ace Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fauna (B13)				X Drainage Patterns (B10)		
Saturation	on (A3)		True Aquatic Plants (B14)				Dry-Season Water Table (C2)		
	/larks (B1)		Hydrogen Sulfide Odor (C1)					fish Burrows (C8)	
	nt Deposits (B2)		Oxidized F					ration Visible on Aerial Imagery (C9)	
	posits (B3)			Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils				ited or Stressed Plants (D1)	
	at or Crust (B4)					lled Soil		morphic Position (D2)	
X Iron Dep	oosits (B5) on Visible on Aeria		Thin Muck Surface (C7)				FAC	-Neutral Test (D5)	
		Gauge or Well Data (D9) Other (Explain in Remarks)							
	y Vegetated Conca	ive Surface (Bo	Other (Exp	nam m r	(emarks)				
Field Obser		Vas	No. Y	Denth (i	nchee).				
		Yes Yes	No X No X		nches): _				
							Wetland Hydrology Present? Yes X No		
	pillary fringe)		<u>//</u>	Бори. (.	_			<u> </u>	
_,	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:									
The sample	point was taken in	an agricultural	field bare of veg	etation d	lue to wa	ter inund	dation at one point in t	the year.	

ENG FORM 6116-7, JUL 2018 Midwest – Version 2.0

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Height	s / St. Louis Sampl	ling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	St	ate: MO Sampl	ling Point: SP-2
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N	<u>—</u> 'A	
Landform (hillside, terrace, etc.): Terrace within a depression	Local relief (concave,	convex, none): Concave)
Slope (%): 0-5 Lat: 38.737462	Long: -90.502555	Datum:	NAD 83
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent, occasionally	looded	NWI classification:	PEM1Ad
Are climatic / hydrologic conditions on the site typical for this time of ye	r? Yes No	X (If no, explain in R	lemarks.)
Are Vegetation X , Soil X , or Hydrology significantly distu	bed? Are "Normal Circumsta	ances" present? Yes	No X
Are Vegetation, Soil, or Hydrology naturally problem		answers in Remarks.)	<u> </u>
SUMMARY OF FINDINGS – Attach site map showing		s, transects, impor	tant features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area		
Hydric Soil Present? Yes X No	within a Wetland?	Yes X No	
Wetland Hydrology Present? Yes X No No			
Remarks:	•		
The sample point was taken within a depression of an agricultural field in elevation than SP-1. Conditions were wetter than normal. WTL-1.	where some wheat had been h	arvested. SP-2 was take	en about 6 inches higher
VEGETATION – Use scientific names of plants.			
	minant Indicator		
Tree Stratum (Plot size:) % Cover S	ecies? Status Domi	nance Test worksheet:	
1		er of Dominant Species BL, FACW, or FAC:	That (A)
3.	Total	Number of Dominant Sp	ecies
4	Acros	s All Strata:	(B)
5		nt of Dominant Species	
Sapling/Shrub Stratum (Plot size:)	al Cover Are O	BL, FACW, or FAC:	(A/B)
1	Preva	lence Index worksheet	
2.		otal % Cover of:	Multiply by:
3.	OBL s	species	x 1 =
4.	FACW	/ species	x 2 =
5		•	x 3 =
		· —	x 4 =
Herb Stratum (Plot size:)		•	x 5 =
		nn Totals:(A	(B)
2. 3.	Pre	evalence Index = B/A = _	
4.	—— Hvdro	phytic Vegetation Indi	 cators:
5.		- Rapid Test for Hydroph	
6.		- Dominance Test is >50	, ,
7.		- Prevalence Index is ≤3	5.0 ¹
8.	4		ions ¹ (Provide supporting
9.		data in Remarks or on a	a separate sheet)
10	X_P	roblematic Hydrophytic \	/egetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		ators of hydric soil and w esent, unless disturbed o	, ,,
1	Hvdro	phytic	
2.	Veget		
=Tc	al Cover Prese	nt? Yes	No
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation was disturbed as the sample point was taken in a soyl	ean/wheat field and thus is prot	olematic.	

Depth	Matrix	•	th needed to docu Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/2	90	10YR 3/6	5	C	PL/M	Loamy/Clayey	Prominent redox concentrations
	10111 0/2		10111 0/0	<u> </u>	<u> </u>	1 2/101	<u> Louiny/Olayoy</u>	
								Also has 10YR 5/1, 5%, D, M
¹ Type: C=Co	oncentration, D=Depl	etion RM=	Reduced Matrix M	AS=Mas	ked San	d Grains	² l ocation	: PL=Pore Lining, M=Matrix.
Hydric Soil			Troubout manny m			<u> </u>		rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	yed Mat	rix (S4)			t Prairie Redox (A16)
	pipedon (A2)		Sandy Red					Manganese Masses (F12)
Black His	. , ,		Stripped M					Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ce (S7)			Very	Shallow Dark Surface (F22)
Stratified	d Layers (A5)		Loamy Mu	cky Min	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gle	yed Ma	trix (F2)			
Depleted	d Below Dark Surface	(A11)	Depleted N	/latrix (F	3)			
Thick Da	ark Surface (A12)		X Redox Dar	k Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted D	ark Sur	face (F7)	wetla	ind hydrology must be present,
5 cm Mu	icky Peat or Peat (S3)	Redox Dep	ression	s (F8)		unles	ss disturbed or problematic.
Restrictive I	Layer (if observed):							
Type:			<u></u>					
Depth (ir	nches):						Hydric Soil Present	t? Yes <u>X</u> No
Remarks:								
The soil was	disturbed as the san	nple point v	was in a sovbean/w	heat fie	ld			
				mout no	ıu.			
				moat no				
				mout no				
LIVERGLE	nov.			mout no				
HYDROLO	OGY			mout no				
Wetland Hy	drology Indicators:							
Wetland Hyd	drology Indicators: cators (minimum of o	ne is requi	red; check all that a	apply)				ry Indicators (minimum of two required)
Wetland Hyd Primary Indic	drology Indicators: cators (minimum of o Water (A1)	ne is requi	red; check all that a	apply) ned Lea	ıves (B9)		Surfa	ace Soil Cracks (B6)
Wetland Hyde Primary India Surface ' High Wa	drology Indicators: cators (minimum of o Water (A1) ater Table (A2)	ne is requi	red; check all that a Water-Stai Aquatic Fa	apply) ned Lea una (B1	ives (B9)		Surfa Drain	ace Soil Cracks (B6) aage Patterns (B10)
Wetland Hyder Primary India Surface Management High Wa	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua	apply) ned Lea una (B1 tic Plant	ives (B9) 3) s (B14)		Surfa Drain Dry-S	ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)
Wetland Hydelian Primary India Surface High Wa Saturatic Water M	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1)	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen :	apply) ned Lea una (B1 tic Plant Sulfide (ves (B9) 3) s (B14) Ddor (C1)	Surfa Drain Dry-S Crayl	ace Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Wetland Hydelian Primary India Surface High Wa Saturation Water M Sedimen	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen : Oxidized R	apply) ned Lea una (B1 tic Plant Sulfide (oves (B9) 3) s (B14) Ddor (C1 eres on) Living Ro	Surfa Drain Dry-8 Crayl pots (C3)	ace Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep	drology Indicators: cators (minimum of o Water (A1) ster Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen : Oxidized R	apply) ned Lea una (B1 tic Plant Sulfide (thizosph of Reduc	oves (B9) 3) s (B14) Odor (C1 eres on ced Iron) Living Ro (C4)	Surfa	ace Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1)
Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	ne is requi	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen : Oxidized R Presence o	apply) ned Lea una (B1 tic Plant Sulfide (thizosph of Redue	oves (B9) 3) s (B14) Odor (C1 eres on ced Iron stion in T) Living Ro (C4)	Surfa	ace Soil Cracks (B6) lage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) led or Stressed Plants (D1) morphic Position (D2)
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Wetland Hyderimary India Surface Surfa	drology Indicators: cators (minimum of o Water (A1) ther Table (A2) on (A3) larks (B1) on Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In v Vegetated Concave vations: ter Present? Present? Ye resent? Ye pillary fringe)	nagery (B7 Surface (E s s	red; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Society Oxidized Recent Iron Thin Muck Oxidized Recent Iron Gauge or No X No X No X	apply) ned Lea una (B1 tic Plant Sulfide (thizosph of Reduct on Reduct Surface Well Dat lain in F Depth (i Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on ced Iron cition in T e (C7) a (D9) Remarks) nches): nches):) Living Ro (C4) Illed Soil	Surfa Drain Dry-S Crayl Doots (C3) X Satur X Stunt S (C6) Geor FAC-	ace Soil Cracks (B6) hage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)
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See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-3
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Top of slight hill slope	Local relief (concave, convex, none): Convex
Slope (%): 0-5 Lat: 38.737043	Long: -90.502334 Datum: NAD 83
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occa	asionally flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly dist	turbed? Are "Normal Circumstances" present? Yes No _X
Are Vegetation, Soil, or Hydrologynaturally problem	matic? (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	
Remarks:	
The sample point was taken in a soybean/wheat field. SP-3 was taken exclusionary point for WTL-1. Conditions were wetter than normal. Up	en several feet higher in elevation than SP-1 and SP-2 and serves as the upland pland.
VEGETATION – Use scientific names of plants.	
	Dominant Indicator
	Species? Status Dominance Test worksheet:
1. 2.	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.	Total Number of Dominant Species
4.	Across All Strata: (B)
5	Percent of Dominant Species That
	otal Cover Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:) 1.	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3.	OBL species x 1 =
4.	FACW species x 2 =
5	FAC species x 3 =
	otal Cover FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1	(A) (B)
2	Prevalence Index = B/A =
3	Hydrophytic Vegetation Indicators:
5	1 - Rapid Test for Hydrophytic Vegetation
6.	2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8.	4 - Morphological Adaptations ¹ (Provide supporting
9.	data in Remarks or on a separate sheet)
10.	X Problematic Hydrophytic Vegetation ¹ (Explain)
	otal Cover ¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	be present, unless disturbed or problematic.
1.	Hydrophytic
2	Vegetation
	otal Cover
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation was disturbed as the sample point was in a soybean/whee	at field.

Profile Desc Depth	cription: (Describe	to the depth		ument t		tor or c	confirm the abs	sence of indicate	ors.)	
(inches)	Color (moist)	%	Color (moist)	% %	Type ¹	Loc ²	Texture		Remarks	
0-16	2.5Y 3/1	100			<u> </u>		Loamy/Clay	vev M	lore loamy than o	lavev
	2.01 0/1	100		. —			Loamyrola	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	iore learny triair e	layoy
							-			
							-			
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix,	MS=Mas	ked Sand	d Grains			e Lining, M=Matri	
Hydric Soil	Indicators:						Inc	dicators for Prol	blematic Hydric	Soils ³ :
Histosol			Sandy Gle	-				_Coast Prairie R		
	pipedon (A2)		Sandy Re					_	e Masses (F12)	
	istic (A3)		Stripped N	,	5)			_Red Parent Ma	. ,	
_ · ·	en Sulfide (A4)		Dark Surf		1 (54)				ark Surface (F22	(.)
	d Layers (A5)		Loamy Mu	-				Other (Explain	in Remarks)	
	ıck (A10) d Below Dark Surface	. (Λ11)	Loamy Gl Depleted							
	ark Surface (A12)	(Д11)	Redox Da	•	•		³ In	dicators of hydro	phytic vegetation	and
	Mucky Mineral (S1)		Depleted		` '			-	ogy must be pres	
I —	ucky Peat or Peat (S3)	Redox De		` '			•	d or problematic.	,
	Layer (if observed):	,		•	. ,				<u> </u>	
Type:	Layer (ii observea).									
Depth (ii	nches):		_				Hydric Soil P	resent?	Yes	No X
Remarks:									<u> </u>	
	listurbed as the samp	le point was t	taken in an activ	ve soybe	an field.					
				•						
LIVERGLA	201									
HYDROLO	JGY									
_	drology Indicators:									
-	cators (minimum of o	ne is required					<u>Se</u>	•	rs (minimum of ty	wo required)
	Water (A1)		Water-Sta		. ,			_Surface Soil Cr	, ,	
	ater Table (A2)		Aquatic F	,	,			_ Drainage Patte		
Saturation	on (A3) larks (B1)		True Aqua					_ Dry-Season Wa Crayfish Burrow		
	nt Deposits (B2)		Oxidized I				oots (C3)	_ ′	ole on Aerial Imag	nery (C9)
	posits (B3)		Presence			-		_	ssed Plants (D1)	
	at or Crust (B4)		Recent Iro		,	,	s (C6)	Geomorphic Po	, ,	
	oosits (B5)		Thin Mucl				` ′	FAC-Neutral Te		
Inundati	on Visible on Aerial Ir	nagery (B7)	Gauge or	Well Dat	a (D9)			_		
Sparsely	Vegetated Concave	Surface (B8)	Other (Ex	plain in F	Remarks)					
Field Obser	vations:									
Surface Wat	ter Present? Ye	S	No X	Depth (i	nches):					
Water Table	Present? Ye	s	No X	Depth (i	nches):					
Saturation P	resent? Ye	s	No X	Depth (i	nches):		Wetland Hy	ydrology Presen	it? Yes	No X
(includes ca	pillary fringe)									
Describe Re	corded Data (stream	gauge, moni	toring well, aeria	al photos	, previous	s inspec	tions), if availab	ole:		
Remarks:										

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Applicant/Owner: NorthPoint Development, LLC	
11 <u></u>	State: MO Sampling Point: SP-4
Investigator(s): B. Burkart and R. Thies Section, Township, Rang	ge: N/A
Landform (hillside, terrace, etc.): Swale/Depression Local relief (cor	ncave, convex, none): Concave
Slope (%): 0-5 Lat: 38.736706 Long: -90.502204	Datum: NAD 83
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occasionally flooded	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly disturbed? Are "Normal Circ	rcumstances" present? Yes No X
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain	ain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point local	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	a Yes <u>X</u> No
Remarks: The sample point was taken in a bare depression within an agricultural field. Existing vegetation vegetation and soils are problematic. This area should be considered a wetland. The conditions	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size:) % Cover Species? 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)
5	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	
	Prevalence Index worksheet:
2	Total % Cover of: Multiply by: OBL species x 1 =
	FACW species x 2 =
	FAC species x 3 =
=Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1	Column Totals: (A) (B)
2	Prevalence Index = B/A =
3	
	Hydrophytic Vegetation Indicators:
5. 6.	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	3 - Prevalence Index is ≤3.0 ¹
• — — — — ·	4 - Morphological Adaptations ¹ (Provide supporting
9.	data in Remarks or on a separate sheet)
10.	X Problematic Hydrophytic Vegetation ¹ (Explain)
	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	Hydrophytic
2	Vegetation
=Total Cover	Present? Yes X No

0-16 10YR 3/2 93 10YR 3/6 2 C PLIM Loamy/Clayey Prominent redox concentr Also has 10YR 6/1, 5%, 5%, 5%, 5%, 5%, 5%, 5%, 5%, 5%, 5%	Depth _	Matrix		Redo	ox Feature						
"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 So Indicators: Indicators for Problematic Hydric So Indicators (A1)	(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	F	Remarks	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Picocation: PL=Pore Lining, M=Matrix, Pydric Soil Indicators:	0-16	10YR 3/2	93	10YR 3/6	2	С	PL/M	Loamy/Clayey	Prominent re	edox concent	ration
Histosol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric So. Histosol (A1) Sandy Redox (S5) Iron-Manganese Masses (F12) Iron-Manganese Masses (F12) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mukcky Mineral (F1) Z Other (Explain in Remarks) 2 cm Muck (A10) Depleted Belevo Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation an wetland hydrology must be present of the Structive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X Very Shallow Mark (F2) Very Shallow Dark Surface (F2) Wetland Hydrology must be present unless disturbed or problematic. Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation an wetland hydrology must be present unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X Remarks: The soil was disturbed as the sample point was taken in a soybean/wheat field. The area had strong evidence that seasonal ponding occurs rea. Due to the fact that the soil was disturbed and the soil characteristics almost meet hydric indicators, it was determined the area is likel vetland. YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Succeeding the Status of Cracks (B6) High Water Table (A2) Aquatic Feauna (B13) X Drainge Soil Cracks (B6) High Water Table (A2) X Suturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Carylish Burrows (C8) Dry-Season Water Table (C2) Carylish Burrows (C8) Drift Deposits (B3) Presence of Reduced Iron (C4) X Sutured or Sressed Plants (D1) X Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B3) Presence of Reduced Iron (C4) X Sutured or Sressed Plants (D1) Sparsely Vegetated Concave Surface (B8) Other (Explain in									Also has 1	0YR 6/1, 5%,	D, M
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16)											
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Histosol (A1) Sandy Gleyed Matrix (S4) Indicators for Problematic Hydric Sol Prising Redox (A16) Sandy Redox (S5) Iron-Manganese Masses (F12) Iron-Man											
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See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-5
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Swale/Depression	Local relief (concave, convex, none): Concave
Slope (%): 0-5 Lat: 38.735705	Long: -90.501858 Datum: NAD 83
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occa	asionally flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly dist	turbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation , Soil , or Hydrology naturally probler	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes X No No	- -
Remarks:	
The sample point was taken in a wetland within an agricultural field. T Conditions were wetter than normal. WTL-3.	The area appears to pond seasonally as evident with the lack of vegetation.
VEGETATION – Use scientific names of plants.	
•	Dominant Indicator I
	Species? Status Dominance Test worksheet:
1	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3.	Total Number of Dominant Species
4.	Across All Strata: (B)
5	Percent of Dominant Species That
	otal Cover Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:) 1.	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3.	OBL species x 1 =
4.	FACW species x 2 =
5.	FAC species x 3 =
=TC	otal Cover FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1	(A)(B)
2	Prevalence Index = B/A =
3	Hydrophytic Vegetation Indicators:
5.	1 - Rapid Test for Hydrophytic Vegetation
6.	2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8.	4 - Morphological Adaptations ¹ (Provide supportin
9.	data in Remarks or on a separate sheet)
10	X Problematic Hydrophytic Vegetation ¹ (Explain)
=Tc	otal Cover ¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	be present, unless disturbed or problematic.
1. 2.	Hydrophytic
	Vegetation otal Cover Present? Yes No
	OTAL COVEL FIESCHE! 165 NO
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation was disturbed as the sample point was taken in an agricultural field	d and thus is problematic. Isolated sedges were growing in other areas of the depression.

Depth	ription: (Describe Matrix			x Featur							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture			Remarks	
0-16	10YR 3/2	85	10YR 3/6	5		PL/M	Loamy/Claye	 y	Prominent	t redox concer	itrations
									Also has	10YR 5/1, 109	6, D, M
										,	-, ,
							-				
							-				
	ncentration, D=Dep	oletion, RM=	Reduced Matrix, N	√S=Mas	ked San	d Grains.				ing, M=Matrix.	
Hydric Soil Ir										natic Hydric S	oils":
Histosol (•		Sandy Gle	-	rix (S4)				Prairie Redox		
	pedon (A2)		Sandy Red						inganese Ma	• •	
Black Hist	, ,		Stripped M	,	o)				rent Material	. ,	
	Sulfide (A4)		Dark Surfa					-		Surface (F22)	
	Layers (A5)		Loamy Mu				—	Julei (i	Explain in Re	emarks)	
2 cm Muc	ж (А10) Below Dark Surfac	ο (Λ11)	Loamy Gle	•	, ,						
	k Surface (A12)	⊙ (∧ i i)	X Redox Dai	,	,		3India	natore :	of hydrophyti	ic vegetation a	nd
	ucky Mineral (S1)		Depleted [` ,)				nust be prese	
	ky Peat or Peat (S	3)	Redox De			,			disturbed or	•	ιτ,
	*				(, 0)					problemation	
Type:	ayer (if observed)	•									
_	1 \										
Denth (inc	ches).						Hydric Soil Pre	sent?		Ves X	Nο
Depth (inc Remarks: The soils were	e disturbed as the s	site was in a	a soybean field.				Hydric Soil Pre	sent?		Yes <u>X</u>	No
Remarks: The soils were	e disturbed as the s	site was in a	a soybean field.				Hydric Soil Pre	sent?		Yes X	No
Remarks: The soils were	e disturbed as the s		a soybean field.				Hydric Soil Pre	sent?		Yes X	No
Remarks: The soils were	e disturbed as the s GY rology Indicators:	:		apply)			•		Indicators (m		
Remarks: The soils were HYDROLOG Wetland Hyd Primary Indica	GY rology Indicators:	:	red; check all that		ives (R9)		<u>Secc</u>	ondary	-	ninimum of two	
Remarks: The soils were HYDROLOG Wetland Hyd Primary Indica Surface W	GY rology Indicators: ators (minimum of a	:	red; check all that Water-Sta	ined Lea	, ,		<u>Secc</u>	ondary Surface	Soil Cracks	ninimum of two	
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indicat Surface W High Wate	e disturbed as the s GY rology Indicators: ators (minimum of over (A1) er Table (A2)	:	red; check all that Water-Sta Aquatic Fa	ined Lea auna (B1	3)		<u>Secc</u>	ondary Surface Orainaç	Soil Cracks ge Patterns (I	ninimum of two s (B6) B10)	
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IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturatior Water Ma	e disturbed as the second of t	:	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 itic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on l) Living Ro	Seco X S [[[(ondary Surface Orainaç Ory-Sea Crayfisl Saturat	e Soil Cracks ge Patterns (l gason Water ∃ n Burrows (C gion Visible on	ninimum of two s (B6) B10) Table (C2)	o required
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indicat Surface W High Wate Saturation Water Ma Sediment Drift Depo	e disturbed as the second of t	:	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on l ced Iron) Living Ro (C4)	Seco	ondary Surface Orainaç Ory-Sea Crayfisl Saturat Stuntec	e Soil Cracks ge Patterns (l gason Water ∃ n Burrows (C gion Visible on	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1)	o required
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indicat Surface W High Wate Saturation Water Ma Sediment Drift Depo	e disturbed as the second of t	:	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc in Reduc	3) s (B14) Odor (C1 eres on led Iron of the thick thick the thick) Living Ro (C4)	Secondary Second	ondary Surface Orainag Ory-Sea Crayfisl Saturat Stunted Geomo	e Soil Cracks ge Patterns (I ason Water I n Burrows (C ion Visible on I or Stressed	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o required
IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturatior Water Ma Sediment Drift Depo X Algal Mat Iron Depo	e disturbed as the second of t	: one is requi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface	3) s (B14) Odor (C1 eres on lead Iron etion in Ti) Living Ro (C4)	Secondary Second	ondary Surface Orainag Ory-Sea Crayfisl Saturat Stunted Geomo	e Soil Cracks ge Patterns (I gason Water I gason Witer I g	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o required
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturatior Water Ma Sediment Drift Depo X Algal Mat Iron Depo Inundatior	e disturbed as the second of t	: one is requii	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	ined Lea auna (B1 sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on led Iron etion in Tiel (C7) a (D9)) Living Ro (C4) illed Soils	Secondary Second	ondary Surface Orainag Ory-Sea Crayfisl Saturat Stunted Geomo	e Soil Cracks ge Patterns (I gason Water I gason Witer I g	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o require
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo X Algal Mat Iron Depo Inundation Sparsely N	e disturbed as the second of t	: one is requii	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	ined Lea auna (B1 sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on led Iron etion in Tiel (C7) a (D9)) Living Ro (C4) illed Soils	Secondary Second	ondary Surface Orainag Ory-Sea Crayfisl Saturat Stunted Geomo	e Soil Cracks ge Patterns (I gason Water I gason Witer I g	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o required
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo X Algal Mat Iron Depo Inundation Sparsely W Field Observ	e disturbed as the second of t	: one is requii	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	ined Lea auna (B1 sulfide (Rhizosph of Reduc on Reduc Surface Well Dat	3) s (B14) Ddor (C1 eres on led Iron (tion in Tie (C7) a (D9) temarks)) Living Ro (C4) illed Soils	Secondary Second	ondary Surface Orainag Ory-Sea Crayfisl Saturat Stunted Geomo	e Soil Cracks ge Patterns (I gason Water I gason Witer I g	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o required
Remarks: The soils were HYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturatior Water Ma Sediment Drift Depo X Algal Mat Iron Depo Inundatior	e disturbed as the second of t	: one is requi Imagery (B7 e Surface (E	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 88) Other (Exp	ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	3) s (B14) Ddor (C1 eres on lead Iron (C7) a (D9) temarks)) Living Ro (C4) illed Soils	Secondary Second	ondary Surface Orainag Ory-Sea Crayfisl Saturat Stunted Geomo	e Soil Cracks ge Patterns (I gason Water I gason Witer I g	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o requirec
Remarks: The soils were HYDROLOG Wetland Hyd Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Inundation Sparsely Field Observ Surface Water Water Table F Saturation Pre	e disturbed as the second of t	: one is requi Imagery (B7 e Surface (E	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or 1 38) Other (Exp	ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat Dlain in F	3) s (B14) Ddor (C1 eres on led Iron of tion in Ti (C7) a (D9) demarks) nches): _nches):) Living Ro (C4) illed Soils	Secondary Second	ondary Surface Drainaç Dry-Sea Crayfisl Saturat Stunted Geomo FAC-No	e Soil Cracks ge Patterns (I gason Water 7 in Burrows (C gion Visible of I or Stressed rphic Positio gutral Test (E	ninimum of two s (B6) B10) Table (C2) c8) n Aerial Image d Plants (D1) on (D2)	o required
HYDROLOG Wetland Hyd Primary Indica Surface W High Water Ma Sediment Drift Depo Inundation Sparsely W Field Observ Water Table F Saturation Pre (includes capi	e disturbed as the second of t	: one is requir Imagery (B7 e Surface (E es es	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on leed Iron tition in Title (C7) a (D9) elemarks) nches): nches):) Living Ro (C4) illed Soils	Second X Second	ondary Surface Drainaç Dry-Sea Crayfisl Saturat Stunted Geomo FAC-Ne	e Soil Cracks ge Patterns (I gason Water 7 in Burrows (C gion Visible of I or Stressed rphic Positio gutral Test (E	ninimum of two s (B6) B10) Table (C2) C8) n Aerial Image d Plants (D1) on (D2)	o required
Remarks: The soils were HYDROLOG Wetland Hyd Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Inundation Sparsely W Field Observ Surface Water Water Table F Saturation Pre (includes capi	e disturbed as the second of t	: one is requir Imagery (B7 e Surface (E es es	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on leed Iron tition in Title (C7) a (D9) elemarks) nches): nches):) Living Ro (C4) illed Soils	Second X Second	ondary Surface Drainaç Dry-Sea Crayfisl Saturat Stunted Geomo FAC-Ne	e Soil Cracks ge Patterns (I gason Water 7 in Burrows (C gion Visible of I or Stressed rphic Positio gutral Test (E	ninimum of two s (B6) B10) Table (C2) C8) n Aerial Image d Plants (D1) on (D2)	o required
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Inundatior Sparsely V Field Observ Surface Wate Water Table F Saturation Pre (includes capi Describe Reco	e disturbed as the second of t	: one is requir Imagery (B7 e Surface (E es es	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on leed Iron tition in Title (C7) a (D9) elemarks) nches): nches):) Living Ro (C4) illed Soils	Second X Second	ondary Surface Drainaç Dry-Sea Crayfisl Saturat Stunted Geomo FAC-Ne	e Soil Cracks ge Patterns (I gason Water 7 in Burrows (C gion Visible of I or Stressed rphic Positio gutral Test (E	ninimum of two s (B6) B10) Table (C2) C8) n Aerial Image d Plants (D1) on (D2)	o required
Remarks: The soils were IYDROLOG Wetland Hyd Primary Indica Surface W High Water Ma Sediment Drift Depo Inundation Sparsely W Field Observ Surface Water Water Table F Saturation Pre (includes capi	e disturbed as the second of t	: one is requir Imagery (B7 e Surface (E es es	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 38) Other (Exp	ined Lea auna (B1 sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in F Depth (i Depth (i	3) s (B14) Ddor (C1 eres on leed Iron tition in Title (C7) a (D9) elemarks) nches): nches):) Living Ro (C4) illed Soils	Second X Second	ondary Surface Drainaç Dry-Sea Crayfisl Saturat Stunted Geomo FAC-Ne	e Soil Cracks ge Patterns (I gason Water 7 in Burrows (C gion Visible of I or Stressed rphic Positio gutral Test (E	ninimum of two s (B6) B10) Table (C2) C8) n Aerial Image d Plants (D1) on (D2)	o required

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	Ci	ty/Count	y: <u>Marylan</u>	d Heights / St. Lo	ouis Sa	mpling Dat	te: <u>8/18</u>	3/2022
Applicant/Owner: NorthPoint Development, LLC				State: N	MO Sar	mpling Poir	nt:	SP-6
Investigator(s): B. Burkart and R. Thies	Sed	ction, To	wnship, Rar	nge: N/A				
Landform (hillside, terrace, etc.): Swale/Depression		Lo	cal relief (c	oncave, convex,	none): Conc	ave		
Slope (%): 0-5 Lat: 38.735262	L	 .ong: -90).501159		Datu	m: NAD 83	3	
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slope	es, occasion	nally flood	ded	NW	l classificatio	n: Upland	,	
Are climatic / hydrologic conditions on the site typical for this tir	ne of year?	Υ	es	No X (If	no, explain i	n Remarks	S.)	
Are Vegetation , Soil X , or Hydrology significar	ntly disturbe	d? Are	e "Normal C	ircumstances" pr	esent? Y	es	No X	
Are Vegetation, Soil, or Hydrology naturally			needed, ex	olain any answers	s in Remarks	<u></u>		_
SUMMARY OF FINDINGS – Attach site map sho			point lo	cations, trans	sects, imp	ortant f	eatures	s, etc.
Hydrophytic Vegetation Present? Yes No X		Is the S	Sampled Ar	ea				
Hydric Soil Present? Yes No X			a Wetland?			No X		
Wetland Hydrology Present? Yes No X								
Remarks:								
The sample point was taken in an agricultural field.SP-6 was to point for WTL-3. Conditions are wetter than normal. Upland.	aken about	1 foot hi	gher in elev	ation than SP-5 a	and serves a	s the exclu	ısionary ı	ıpland
VEGETATION – Use scientific names of plants.								
Absolu	ute Domi	inant	Indicator					
Tree Stratum (Plot size:) % Cov			Status	Dominance To	est workshe	et:		
1				Number of Dor Are OBL, FAC		ies That	0	(A)
3.				Total Number		Species		_` ′
4.				Across All Stra		· _	2	(B)
5				Percent of Dor	•	es That		
Cooling/Chruh Ctratum (Diet size)	=Total	Cover		Are OBL, FAC	W, or FAC:	_	0.0%	_ (A/B)
Sapling/Shrub Stratum (Plot size:) 1.				Prevalence In	dev worksh	eet:		
2.				Total % C			tiply by:	
3.				OBL species	0	x 1 =	0	_
4.				FACW species	s 0	x 2 =	0	_
5				FAC species	0	x 3 =	0	_
	=Total	Cover		FACU species		- ×4=	80	_
Herb Stratum (Plot size: 30x10) 1. Unknown Grass Sp. 30	Ye	ae.		UPL species Column Totals	20	_ x 5 = _ (A)	0 80	— (B)
2. Amaranthus albus 20	Y		FACU		Index = B/A	- ` ' —	4.00	— (D)
3.								_
4.				Hydrophytic V	/egetation lɪ	ndicators:		
5				1 - Rapid 1	Test for Hydr	ophytic Ve	getation	
6					ance Test is			
7					ence Index is ological Adap)rovido ov	.nnortino
8					Remarks or o			
10.					ic Hydrophyt	•		•
50	=Total	Cover		1Indicators of h		-	, .	
Woody Vine Stratum (Plot size:)	<u></u>			be present, un				
1				Hydrophytic				
2	=Total (Cover		Vegetation Present?	Vos	Ma	V	
		COVEI		i-1696llt	Yes	No	<u>^</u>	
Remarks: (Include photo numbers here or on a separate shee The site was mostly disturbed as it was located within an agric	,							

Profile Description: (Describe to the Depth Matrix		ument the indic x Features	ator or c	onfirm the absence o	of indicators.)
(inches) Color (moist) %	_	% Type ¹	Loc ²	Texture	Remarks
0-16 10YR 3/2 97		1 C	PL/M	Loamy/Clayey	Prominent redox concentrations
<u> </u>	1011(3/0		I L/IVI	Loamy/Clayey	
					10YR 5/1, 2%, D, M
<u> </u>					
<u> </u>					
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix. N	/IS=Masked San	d Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	,				s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gle	yed Matrix (S4)			Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Red	lox (S5)		Iron-N	Manganese Masses (F12)
Black Histic (A3)	Stripped M	latrix (S6)		Red F	Parent Material (F21)
Hydrogen Sulfide (A4)	Dark Surfa	ce (S7)		Very	Shallow Dark Surface (F22)
Stratified Layers (A5)	Loamy Mu	cky Mineral (F1)		Other	(Explain in Remarks)
2 cm Muck (A10)	Loamy Gle	yed Matrix (F2)			
Depleted Below Dark Surface (A11) Depleted N	/latrix (F3)			
Thick Dark Surface (A12)		k Surface (F6)			s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		Oark Surface (F7)		nd hydrology must be present,
5 cm Mucky Peat or Peat (S3)	Redox Dep	oressions (F8)		unles	s disturbed or problematic.
Restrictive Layer (if observed):					
Type:					
Depth (inches):				Hydric Soil Present	? Yes No <u>X</u>
HYDROLOGY					
Wetland Hydrology Indicators: Primary Indicators (minimum of one is	required: check all that	annly)		Secondar	y Indicators (minimum of two required)
Surface Water (A1)	*	ned Leaves (B9)	١		ce Soil Cracks (B6)
High Water Table (A2)	Aquatic Fa	` '	'		age Patterns (B10)
Saturation (A3)		tic Plants (B14)			eason Water Table (C2)
Water Marks (B1)		Sulfide Odor (C1)		sh Burrows (C8)
Sediment Deposits (B2)		hizospheres on		oots (C3) Satur	ation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence	of Reduced Iron	(C4)	Stunt	ed or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iro	n Reduction in T	illed Soils	s (C6) Geom	norphic Position (D2)
Iron Deposits (B5)	Thin Muck	Surface (C7)		FAC-	Neutral Test (D5)
Inundation Visible on Aerial Image	· · · — ·	Well Data (D9)			
Sparsely Vegetated Concave Surfa	ice (B8) Other (Exp	lain in Remarks)			
Field Observations:					
Surface Water Present? Yes		Depth (inches):			
Water Table Present? Yes		Depth (inches):			
Saturation Present? Yes	NoX	Depth (inches):		Wetland Hydrolog	y Present? Yes No X
(includes capillary fringe)	a monitoring wall same	I photos provisio	o incoc-	ions) if available:	
Describe Recorded Data (stroom sour	= monuonoo wen aena	i priotos, previou	is illispect	ionoj, ii avallabie.	
Describe Recorded Data (stream gaug	o, momoning won, dona				
Describe Recorded Data (stream gaug Remarks:	o, mornioring won, dona				
, -	e, monitoring won, don't		•		

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development		City/Cοι	unty: <u>Marylar</u>	nd Heights / St. Lo	uis Sar	mpling Date:	. 8/18	/2022
Applicant/Owner: NorthPoint Development, LLC				State: M	<u>//O</u> Sar	mpling Point:	:	SP-7
Investigator(s): B. Burkart and R. Thies		Section,	Township, Ra	ange: N/A				
Landform (hillside, terrace, etc.): Swale/Depression			Local relief (concave, convex, ı	none): Conc	ave		
Slope (%): 0-5 Lat: 38.733867		Long:	-90.500993		Datur	m: NAD 83		
Soil Map Unit Name: Peer silty clay loam, 0 to 2 per	cent slopes, od	casionally flo	ooded	NWI	classificatio	n: Upland		
Are climatic / hydrologic conditions on the site typica	I for this time o	of year?	Yes	No X (If	no, explain ir	n Remarks.)		
Are Vegetation, SoilX, or Hydrology	significantly	disturbed?		Circumstances" pr	esent? Ye	es N	No X	
Are Vegetation, Soil, or Hydrology				kplain any answers				_
SUMMARY OF FINDINGS – Attach site i			ng point lo	ocations, trans	sects, imp	oortant fe	atures	s, etc.
Hydric Soil Present? Yes X Wetland Hydrology Present? Yes X	No No		e Sampled A in a Wetland		<u> </u>	lo		
Remarks: SP-7 was taken in a depression within an agricultur Vegetation and soils were disturbed. Area should b							s hydrolo	ogy.
VEGETATION – Use scientific names of p	olants.							
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	et werkehe	ot:		
1	70 COVE	Opecies:	Status	Number of Don				
2.				Are OBL, FAC	•	es mai	0	(A)
3. 4.				Total Number of Across All Strat		Species	1	– (B)
5.		=Total Cover	. —	Percent of Dom Are OBL, FAC	•		0.0%	_ (A/B)
Sapling/Shrub Stratum (Plot size:	_)							
1.				Prevalence Inc				
2. 3.				Total % Co	over of: 0	$\frac{\text{Multiple}}{\text{x 1 = }}$	oly by: 0	_
				FACW species		x2=	4	_
5.				FAC species	0	x 3 =	0	_
		=Total Cover		FACU species	10	x 4 =	40	_
Herb Stratum (Plot size: 10x30)				UPL species	0	x 5 =	0	_
1. Amaranthus albus	10	Yes	FACU	Column Totals:	12	(A)	44	(B)
2. Cyperus esculentus	2	No	FACW	Prevalence I	ndex = B/A	= 3.6	37	_
3.								
4				Hydrophytic V	_			
5.					-	ophytic Vege	etation	
6. 7.					ince Test is a ince Index is			
•						r <u>≤</u> 3.0 otations¹ (Pro	vide su	nnorting
9.						on a separate		
10.				X Problemati	c Hydrophyt	ic Vegetation	n¹ (Expl	ain)
Woody Vine Stratum (Plot size:	12	=Total Cover		¹ Indicators of h	ydric soil and	d wetland hy	/drology	
1.	_ ′			,	200 diotarber	a or problem		
2.				Hydrophytic Vegetation				
		=Total Cover		Present?	Yes X	No		
Remarks: (Include photo numbers here or on a sep Vegetation was mostly disturbed as the sample poi		bean field, th	nouah there w	as some growing	vegetation			

Depth	Matrix			x Featur		. 2	- :		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type '	Loc ²	Texture	Remarks	
0-16	10YR 3/2	94	10YR 3/6	1	С	PL/M	Loamy/Clayey	Prominent redox concentra	ations
								Also has 10YR 5/1, 5%, I	D, M
<u> </u>	- D. D. D.		Deduced Metric 1	40. 14.			21	DI Describito M Matri	
	oncentration, D=Dep	etion, Rivi	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		: PL=Pore Lining, M=Matrix.	1-3.
ydric Soil I			Condy Clo	und Mat	riv (C1)			s for Problematic Hydric Soi	is .
Histosol	` '		Sandy Gle	-				t Prairie Redox (A16)	
	ipedon (A2)		Sandy Red	. ,				Manganese Masses (F12)	
Black His			Stripped M	•	0)			Parent Material (F21)	
_ ` `	n Sulfide (A4)		Dark Surfa	` '	. (54)			Shallow Dark Surface (F22)	
_	Layers (A5)		Loamy Mu	•	` '		X Othe	r (Explain in Remarks)	
2 cm Mu			Loamy Gle	-					
	Below Dark Surface	(A11)	Depleted N	•			3		
	rk Surface (A12)		Redox Dai		` '			s of hydrophytic vegetation and	
	ucky Mineral (S1)		Depleted [)		nd hydrology must be present,	
5 cm Mu	cky Peat or Peat (S3	·)	Redox De	ression	s (F8)		unles	ss disturbed or problematic.	
	_ayer (if observed):								
T									
Type:									
Depth (in Remarks: Soils were di	· -		_	ultural fi	eld. Due	to the dis	Hydric Soil Present	t that soils were close to meeting	No
Depth (in Remarks: Soils were di ndicators, it	sturbed as the samp was determined that		_	ultural fi	eld. Due	to the dis			
Depth (in Remarks: Soils were dindicators, it	sturbed as the samp was determined that		_	ultural fi	eld. Due	to the dis			
Depth (in Remarks: Soils were dindicators, it	sturbed as the samp was determined that GY drology Indicators:	this area i	is likely a wetland.		eld. Due	to the dis	sturbance and the fac	t that soils were close to meeti	ng hy
Depth (in Remarks: Soils were dindicators, it YDROLO Vetland Hydrianary Indicators (in Remark)	sturbed as the samp was determined that GY drology Indicators: cators (minimum of o	this area i	is likely a wetland.	apply)			sturbance and the fac	t that soils were close to meeting the soils were close to the soil were close to the soils were close to the soil were close to the	ng hy
Depth (in Remarks: Soils were dindicators, it YDROLO Vetland Hydrogen Surface Verimary Indicators)	sturbed as the samp was determined that GY drology Indicators: eators (minimum of o Water (A1)	this area i	is likely a wetland. ired; check all that Water-Sta	apply) ined Lea	ves (B9)		sturbance and the fac 	t that soils were close to meeting that soils were close to meeting the soil cracks (B6)	ng h
Depth (in Remarks: Soils were dindicators, it YDROLO Vetland Hydromary Indicators High Wa	GY drology Indicators: eators (minimum of o	this area i	is likely a wetland. ired; check all that Water-Sta Aquatic Fa	apply) ined Lea auna (B1	aves (B9)		sturbance and the fac Seconda Surfa	ry Indicators (minimum of two race Soil Cracks (B6)	ng h
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See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryla	and Heights / St. Louis Sampling D	ate: <u>8/18/2022</u>
Applicant/Owner: NorthPoint Development, LLC		State: MO Sampling Po	oint: SP-8
Investigator(s): B. Burkart and R. Thies	Section, Township, F	Range: N/A	
Landform (hillside, terrace, etc.): Depression	Local relief	(concave, convex, none): Concave	
Slope (%): 0-5 Lat: 38.732750	Long: -90.499649	Datum: NAD 8	33
Soil Map Unit Name: Lowmo silt loam, 0 to 2 percent slopes, or	ccasionally flooded	NWI classification: Uplan	d
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes	No X (If no, explain in Remar	ks.)
Are Vegetation X , Soil X , or Hydrology significan	itly disturbed? Are "Norma	I Circumstances" present? Yes	No X
Are Vegetation, Soil, or Hydrologynaturally		explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sho		locations, transects, important	features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled within a Wetlan		
Remarks: The sample point was taken within an agricultural field. Though hydrology was noted in the area. This area should be consider			both disturbed and
VEGETATION – Use scientific names of plants.			
Absolu <u>Tree Stratum</u> (Plot size:) % Cov		Dominance Test worksheet:	
1.	ei Opecies: Otatus	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
3. 4.		Total Number of Dominant Species Across All Strata:	(B)
5.	=Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:)			
1		Prevalence Index worksheet:	
2			ıltiply by:
3		FACW species x 2 =	
5.		FAC species x3 =	
	=Total Cover	FACU species x 4 =	
Herb Stratum (Plot size:)			
1.		Column Totals: (A)	(B)
2.		Prevalence Index = B/A =	
3			
4		Hydrophytic Vegetation Indicators	
5		1 - Rapid Test for Hydrophytic \	egetation/
6		2 - Dominance Test is >50%	
7. 8.		3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹	Provido supporting
9.		data in Remarks or on a sepa	
10.		X Problematic Hydrophytic Vegeta	
10	=Total Cover	¹ Indicators of hydric soil and wetland	` . ,
Woody Vine Stratum (Plot size:)		be present, unless disturbed or prob	, ,,
1. 2.	_	Hydrophytic	
		Vegetation	
	=Total Cover	Present? Yes X No	

Depth	Matrix			x Featur		. 2		_
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/1	94	10YR 3/6	1	С	PL/M	Loamy/Clayey	Prominent redox concentration
								Also has 10YR 5/1, 5%, D, M
								-
	ncentration, D=Depl	etion, RM	=Reduced Matrix, N	/IS=Mas	ked San	d Grains.		: PL=Pore Lining, M=Matrix.
lydric Soil I			0 1 0		. (0.1)			s for Problematic Hydric Soils':
Histosol (•		Sandy Gle	-				t Prairie Redox (A16)
	pedon (A2)		Sandy Red					Manganese Masses (F12)
Black His			Stripped M	•	0)			Parent Material (F21)
	Sulfide (A4)		Dark Surfa	` ′				Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	•	` '		X Othe	r (Explain in Remarks)
2 cm Muc		(0.11)	Loamy Gle	-				
	Below Dark Surface	(A11)	Depleted N				31	f h d h d d - d d
	k Surface (A12)		Redox Dar		` '	١		s of hydrophytic vegetation and
	ucky Mineral (S1) cky Peat or Peat (S3	١	Depleted D			,		nd hydrology must be present, s disturbed or problematic.
_		-	Redox Dep	716331011	3 (1 0)		unies	3 disturbed of problematic.
	ayer (if observed):							
Type:								
Donth (in	oboo):						Hudria Cail Brasant	2 Vac V No
Soils were dis	· -		-			to the so	Hydric Soil Present	? Yes X No
Remarks: Soils were dis nydric indicat	sturbed as the sampl ors, it has been dete		-			to the so		
Remarks: Soils were dis nydric indicat	sturbed as the sampl ors, it has been dete		-			to the so		
Remarks: Soils were dis nydric indicate	sturbed as the sampl ors, it has been dete		-			to the so		
Remarks: Soils were dis hydric indicat YDROLO Wetland Hyd Primary Indic	sturbed as the samplors, it has been dete GY Irology Indicators: ators (minimum of o	rmined tha	at the area is likely ired; check all that	a wetlan	nd.		ils being disturbed, al	nd the soils coming close to meeting close to meeting the soils coming close the soils compared the soil
Remarks: Soils were dis nydric indicat YDROLO Wetland Hyd Primary Indic Surface V	GY Irology Indicators: ators (minimum of or	rmined tha	at the area is likely ired; check all that a	a wetlan apply) ined Lea	nd.		ils being disturbed, and see the secondar of t	nd the soils coming close to meeting the soils coming close to meeting the soil of the soil common of the soil cracks (B6)
Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat	GY rology Indicators: ators (minimum of or Vater (A1) er Table (A2)	rmined tha	at the area is likely ired; check all that a Water-Stai Aquatic Fa	a wetlan apply) ined Lea auna (B1	aves (B9)		ils being disturbed, and secondar of the secon	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10)
Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3)	rmined tha	ired; check all that a Mater-Stai Aquatic Fa True Aqua	a wetlan apply) ined Lea auna (B1 tic Plant	oves (B9) 3) s (B14))	ils being disturbed, an Secondal X Surfa X Drair Dry-S	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2)
Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) urks (B1)	rmined tha	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1 tic Plant Sulfide (aves (B9) 3) s (B14) Odor (C1)	ils being disturbed, an Secondal X Surfa X Drair Dry-S Cray	y Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8)
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Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) E Deposits (B2) osits (B3)	rmined tha	ired; check all that : Water-Stai Aquatic Fa True Aqua Hydrogen : Oxidized R	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	aves (B9) 3) s (B14) Odor (C1 eres on ced Iron) Living Ro (C4)	Secondal X Surfa X Drair Dry-5 Crayl ots (C3) X Satur	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C8) ed or Stressed Plants (D1)
Remarks: Soils were dis hydric indicate IYDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo X Algal Mate	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4)	rmined tha	ired; check all that : Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o	apply) ined Lea auna (B1 ttic Plant Sulfide (Rhizosph of Reduc n Reduc	aves (B9) 3) s (B14) Odor (C1 eres on ced Iron ition in T) Living Ro (C4)	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo X Algal Mat Iron Depo	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5)	rmined tha	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc	aves (B9) 3) s (B14) Odor (C1 eres on ced Iron ction in T) Living Ro (C4)	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C8) ed or Stressed Plants (D1)
Permarks: Soils were disported in the control of th	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial In	ne is requi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Garage or No.	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1 eres on ced Iron ction in T e (C7) a (D9)) Living Ro (C4) illed Soils	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depo Iron Depo Inundatio X Sparsely	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial In Vegetated Concave	ne is requi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Garage or No.	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Odor (C1 eres on ced Iron ction in T e (C7) a (D9)) Living Ro (C4) illed Soils	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Remarks: Soils were dishydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wat Saturation Water Ma Sediment Drift Depot Iron Depot Inundation X Sparsely Field Observ	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial In Vegetated Concave	ne is requi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen a Oxidized R Presence of Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat	aves (B9) 3) s (B14) Ddor (C1 eres on cet iron it (C7) a (D9) Remarks)) Living Ro (C4) illed Soils	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Remarks: Soils were dis hydric indicate YDROLO Wetland Hyd Primary Indic Surface V High Wate Ma Sediment Drift Depo Iron Depo Inundatio X Sparsely Field Observ Surface Water	GY Irology Indicators: ators (minimum of or Vater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) n Visible on Aerial In Vegetated Concave rations: er Present? Yes	ne is requi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck Thin Muck The Stai Other (Exp.	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc of Reduc Surface Well Dat blain in R	aves (B9) 3) s (B14) Ddor (C1 eres on ced Iron cition in T e (C7) a (D9) Remarks)) Living Ro (C4) illed Soils	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	y Indicators (minimum of two requires Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Remarks: Soils were dis hydric indicate IYDROLO Wetland Hyd Primary Indic Surface V High Wate Ma Sediment Drift Depo Inundatio X Sparsely Field Observ Surface Water Table	GY rology Indicators: ators (minimum of or	ne is requi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or Valled No X No X	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc Surface Well Dat blain in R	aves (B9) 3) s (B14) Ddor (C1 eres on ced Iron stion in T e (C7) a (D9) Remarks) nches):) Living Ro (C4) illed Soils	Secondar X Surfa X Drair Dry-S Crayl ots (C3) X Satur Stunt Geor FAC-	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (C5) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: Soils were dis hydric indicate IYDROLO Wetland Hyd Primary Indic Surface V High Water Mater Table Indication Primary Indication Mater Ma	GY Irology Indicators: ators (minimum of or	ne is requi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or Valled No X No X	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc of Reduc Surface Well Dat blain in R	aves (B9) 3) s (B14) Ddor (C1 eres on ced Iron stion in T e (C7) a (D9) Remarks) nches):) Living Ro (C4) illed Soils	Secondal X Surfa X Drair Dry-5 Cray ots (C3) X Saturi Stunt Stunt Geor	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (CS) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: Soils were dis nydric indicate IYDROLO Wetland Hyd Primary Indic Surface V High Water Ma Sediment Drift Depo Inundatio X Sparsely Field Observ Surface Water Table I Saturation Pr (includes cap	sturbed as the sample ors, it has been determined by the sample ors, it has been determined by the sample of the s	nagery (Bi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or Name Oxidized Recent Iro Cauge or Name Oxidized Recent Iro Cauge or Name Oxidized Recent Iro Cauge Oxidized Recent Iro C	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc surface Well Dat blain in R Depth (ii Depth (ii	aves (B9) 3) s (B14) Ddor (C1 eres on ced Iron ction in T c (C7) a (D9) Remarks) nches): nches):) Living Rd (C4) illed Soils	Secondal X Surfa X Drair Dry-S Crayr ots (C3) X Satur Stunt Geor FAC-	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (C5) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: Soils were dis nydric indicate IYDROLO Wetland Hyd Primary Indic Surface V High Water Ma Sediment Drift Depo Inundatio X Sparsely Field Observ Surface Water Table I Saturation Pr (includes cap	GY Irology Indicators: ators (minimum of or	nagery (Bi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or Name Oxidized Recent Iro Cauge or Name Oxidized Recent Iro Cauge or Name Oxidized Recent Iro Cauge Oxidized Recent Iro C	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc surface Well Dat blain in R Depth (ii Depth (ii	aves (B9) 3) s (B14) Ddor (C1 eres on ced Iron ction in T c (C7) a (D9) Remarks) nches): nches):) Living Rd (C4) illed Soils	Secondal X Surfa X Drair Dry-S Crayr ots (C3) X Satur Stunt Geor FAC-	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (C5) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Remarks: Soils were dis nydric indicate IYDROLO Wetland Hyd Primary Indic Surface V High Water Ma Sediment Drift Depo Inundatio X Sparsely Field Observ Surface Water Table I Saturation Pr (includes cap	sturbed as the sample ors, it has been determined by the sample ors, it has been determined by the sample of the s	nagery (Bi	ired; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Recent Iro Thin Muck To Gauge or Name Oxidized Recent Iro Cauge or Name Oxidized Recent Iro Cauge or Name Oxidized Recent Iro Cauge Oxidized Recent Iro C	apply) ined Lea auna (B1 titic Plant Sulfide (Rhizosph of Reduc n Reduc surface Well Dat blain in R Depth (ii Depth (ii	aves (B9) 3) s (B14) Ddor (C1 eres on ced Iron ction in T c (C7) a (D9) Remarks) nches): nches):) Living Rd (C4) illed Soils	Secondal X Surfa X Drair Dry-S Crayr ots (C3) X Satur Stunt Geor FAC-	ry Indicators (minimum of two requice Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) rish Burrows (C8) ration Visible on Aerial Imagery (C5) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development		City/Cou	nty: Marylan	d Heights / St. Louis	Sampling Da	ate: 8/18	/2022
Applicant/Owner: NorthPoint Development, LLC				State: MO	Sampling Po	int:	SP-9
Investigator(s): B. Burkart and R. Thies		Section, T	ownship, Rar	nge: N/A			
Landform (hillside, terrace, etc.): Depression			Local relief (c	oncave, convex, none):	Concave		
Slope (%): 0-5 Lat: 38.732453		Long: -	90.499342	,	Datum: Upland	d	
Soil Map Unit Name: Lowmo silt loam, 0 to 2 percent s	lopes, occas				fication: Upland		
Are climatic / hydrologic conditions on the site typical for	or this time o	of year?	Yes	No X (If no, exp	olain in Remark	(s.)	
Are Vegetation, Soil, or Hydrologys		•		ircumstances" present?		No x	
Are Vegetation, Soil, or Hydrologyr				olain any answers in Rei		- No _ N	_
SUMMARY OF FINDINGS – Attach site ma			•	-	·	features	, etc.
		1					
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	<u> </u>		Sampled Ar		No		
Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No		Within	n a Wetland?	Yes X	No		
Remarks:							
The sample point was taken within a forested wetland	just outside	the project bo	undary. Cond	litions are wetter than no	ormal. WTL-6.		
VEGETATION - Use scientific names of pla	nts.						
	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test wor			
Populus deltoides Salix nigra	30	Yes Yes	FAC OBL	Number of Dominant Are OBL, FACW, or F	•	7	(A)
3. Betula nigra	20	Yes	FACW		-		_ (^)
4.				Total Number of Dom Across All Strata:	mant Species	7	(B)
5.				Percent of Dominant	- Snecies That	-	_ (- /
	90	=Total Cover		Are OBL, FACW, or F	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)					-		
1. Salix nigra	10	Yes	OBL	Prevalence Index wo	orksheet:		
2. Morus alba	5	Yes	FAC	Total % Cover of	: Mu	Itiply by:	_
3. Cornus drummondii	5	Yes	FAC	OBL species 4		40	_
4				FACW species 2		50	_
5				FAC species 5		150	_
(5)	20	=Total Cover		FACU species 0		0	_
Herb Stratum (Plot size: 5)				UPL species 0		0	- (D)
1				Column Totals: 11	` ′	240	_ (B)
2. 3.				Prevalence Index	= B/A =	2.09	_
4				Hydrophytic Vegetat	ion Indicators		
5				1 - Rapid Test for			
6.				X 2 - Dominance Te		egetation	
7.				X 3 - Prevalence Inc			
8.				4 - Morphological		Provide su	pporting
9.				data in Remark			
10.				Problematic Hydr	ophytic Vegeta	tion ¹ (Expl	ain)
		=Total Cover		¹ Indicators of hydric s			
Woody Vine Stratum (Plot size: 30))			be present, unless dis			
1. Vitis riparia	5	Yes	FACW	Hydrophytic			
2.				Vegetation			
	5	=Total Cover		Present? Yes	X No		
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Profile Desc Depth	cription: (Describe	to the depth		ument tl x Featur		tor or c	confirm the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/1	85	10YR 3/6	15	<u>C</u>	PL/M	Loamy/Clayey	Prominent redox concentrations
	-							
								-
1							2	
	oncentration, D=De	pletion, RM=F	Reduced Matrix, N	/IS=Mas	ked Sand	Grains		n: PL=Pore Lining, M=Matrix.
Hydric Soil			0		·· (O.4)			rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	-	rix (S4)			st Prairie Redox (A16)
	oipedon (A2)		Sandy Red		2)			Manganese Masses (F12)
Black His	` '		Stripped M	•	0)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	, ,	orol (F1)			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	-			Othe	er (Explain in Remarks)
2 cm Mu	d Below Dark Surfac	ο (Λ11)	Loamy Gle					
l ——	ark Surface (A12)	e (ATT)	X Depleted N Redox Dar	,	•		3Indicato	rs of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted D					and hydrology must be present,
	icky Peat or Peat (S	(3)	Redox Dep		` ′			ss disturbed or problematic.
	•	•	REGOX BE	310331011	3 (1 0)		dillo	so distarbed of problematic.
_	Layer (if observed)):						
Type:	I A-		_				Hardela Oall Barrer	40 V V N-
Depth (ir	ncnes):		_				Hydric Soil Presen	t? Yes X No
Remarks:								
HYDROLO)GY							
Wetland Hy	drology Indicators	:						
Primary India	cators (minimum of	one is require	d; check all that	apply)			Seconda	ry Indicators (minimum of two required)
Surface '	Water (A1)		Water-Sta	ined Lea	ives (B9)		Surfa	ace Soil Cracks (B6)
X High Wa	iter Table (A2)		X Aquatic Fa	iuna (B1	3)		X Drain	nage Patterns (B10)
X Saturation	on (A3)		True Aqua		. ,		Dry-	Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide 0	Odor (C1)	Cray	fish Burrows (C8)
	nt Deposits (B2)		Oxidized F	Rhizosph	eres on l	iving R	oots (C3) Satu	ration Visible on Aerial Imagery (C9)
X Drift Dep			Presence	of Reduc	ced Iron (C4)	Stun	ted or Stressed Plants (D1)
Algal Ma	it or Crust (B4)		Recent Iro			lled Soil		morphic Position (D2)
	osits (B5)		Thin Muck				X FAC	-Neutral Test (D5)
	on Visible on Aerial		Gauge or \					
Sparsely	Vegetated Concav	e Surface (B8	Other (Exp	lain in R	Remarks)			
Field Obser	vations:							
Surface Wat	er Present? Y	es	No X	Depth (i	nches):			
Water Table	Present? Y	es X		Depth (i	· -	3		
Saturation P	resent? Y	es X	No	Depth (i	nches):_	0	Wetland Hydrolo	gy Present? Yes X No
(includes car							1	
Describe Re	corded Data (strear	n gauge, mon	itoring well, aeria	l photos	, previou	s inspec	tions), if available:	
Remarks:								
	point was taken a fe	ew feet away f	rom surface water	er. Aqua	tic frogs v	were see	en within the wetland.	
		,		•	ŭ			

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development		City/Cou	inty: Marylan	d Heights / St. Louis	Sampling Dat	te: <u>8/18</u>	3/2022
Applicant/Owner: NorthPoint Development, LLC				State: MO	Sampling Poi	nt: S	SP-10
Investigator(s): B. Burkart and R. Thies		Section,	Γownship, Rar	nge: N/A			
Landform (hillside, terrace, etc.): Slight Depression			Local relief (c	oncave, convex, none):	Concave		
Slope (%): 0-5 Lat: 38.732601		Long: -	90.499551		Datum: NAD 83	3	
Soil Map Unit Name: Lowmo silt loam, 0 to 2 percent	slopes, occas	sionally floode	d	NWI classi	ification: Upland		
Are climatic / hydrologic conditions on the site typical	for this time of	of year?	Yes	No X (If no, ex	plain in Remarks	s.)	
Are Vegetation, SoilX_, or Hydrology		•		ircumstances" present?		•	
Are Vegetation, Soil, or Hydrology	="			olain any answers in Re			_
SUMMARY OF FINDINGS – Attach site m	='			· ·	,	eatures	, etc.
	- No		Sampled Ar		•		<u>-</u>
	10 X		n a Wetland?		No		
	No						
Remarks: The sample point was taken within a scrub/shrub are likely disturbed. This area should be considered a weak vegetation. VEGETATION — Use scientific names of pl	etland. Condit				not hydric, but ti	he soils a	re also
·	Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test wo	rksheet:		
1. Morus alba	25	Yes	FAC_	Number of Dominant	•	7	(4)
2. 3.				Are OBL, FACW, or F	_	7	_ ^(A)
4.				Total Number of Dom Across All Strata:	inant Species	9	(B)
5.				Percent of Dominant	Species That		– (D)
	25	=Total Cover		Are OBL, FACW, or F	•	77.8%	(A/B)
Sapling/Shrub Stratum (Plot size: 15)				_		- ` ′
1. Salix nigra	50	Yes	OBL	Prevalence Index w	orksheet:		
2. Morus alba	5	No	FAC	Total % Cover o	f: Mult	tiply by:	_
3. Populus deltoides	5	No	FAC	· —	<u>55</u> x 1 = _	55	_
4					30 x 2 = _	60	_
5		-Tatal Causer			7 x3=_	231	_
Herb Stratum (Plot size: 5)	60	=Total Cover		' <u></u>	$\frac{5}{0}$ $x 4 = $	60 50	_
1. Rumex crispus	15	Yes	FAC	· —	87 (A)	456	(B)
Dichanthelium acuminatum	10	Yes	FAC	Prevalence Index	`` _	2.44	_ (-/
3. Polygonum pensylvanicum	10	Yes	FACW				_
4. Carex blanda	10	Yes	FAC	Hydrophytic Vegeta	tion Indicators:		
5. Setaria viridis	10	Yes	UPL	1 - Rapid Test for	r Hydrophytic Ve	getation	
6. Sorghum halepense	10	Yes	FACU	X 2 - Dominance To			
7. <u>Typha latifolia</u>	5	No	OBL	X 3 - Prevalence In			
8. Calystegia sepium	5	<u>No</u>	<u>FAC</u>	4 - Morphological	l Adaptations' (F ks or on a separ		
9. Amaranthus albus	5 5	No No	FACU		•		•
10. Echinochloa crus-galli	<u>5</u> 87	No No Total Cover	<u>FACW</u>	Problematic Hydr			,
Woody Vine Stratum (Plot size: 30	\	- Total Cover		¹ Indicators of hydric s be present, unless dis		, ,,	must
1. Vitis riparia	_ <i>,</i> 15	Yes	FACW	•	ALGEBOOK OF PRODUC	iauo.	
2.				Hydrophytic Vegetation			
	15	=Total Cover		Present? Yes	X No		
Remarks: (Include photo numbers here or on a sepa	arate sheet.)						
	,						

VEGETATION Continued – Use scientific names of plants.

VEGETATION Continued – Use scientific	names o	f plants.		Sampling Point:	SP-10
Tree Stratum	Absolute % Cover		Indicator Status	Definitions of Vegetation Strata:	
6. 7.				Tree – Woody plants 3 in. (7.6 cm) or more at breast height (DBH), regardless of heigh	
8. 9.				Sapling/Shrub – Woody plants less than 3 and greater than 3.28 ft (1 m) tall.	3 in. DBH
10				Herb – All herbaceous (non-woody) plants, herbaceous vines, regardless of size, and v	
12		=Total Cover		plants less than 3.28 ft tall. Woody Vine – All woody vines greater than	
Sapling/Shrub Stratum 6.		- Total Cover		height.	1 0.20 11 111
7.					
8. 9. 10.					
11. 					
13.		=Total Cover			
Herb Stratum 11. Acer negundo	2	No No	FAC		
12.			TAG		
13					
16					
17 18					
19					
21		=Total Cover			
Woody Vine Stratum 3.		. Total Gover			
4. 5.					
6					
	15	=Total Cover			
Remarks: (Include photo numbers here or on a sepa	irate sneet.)			

Depth	. ` Matr	ix	•	x Featur	es		confirm the absence of	
inches)	Color (moist	:) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/2	98	10YR 5/1	2			Loamy/Clayey	
	1							
	1		-					
	Ú.							
	-							
	0							
,,		Depletion, RM	1=Reduced Matrix, I	MS=Masl	ked Sand	l Grains		: PL=Pore Lining, M=Matrix.
•	Indicators:		Sandy Cla	and Mate	riv (CA)			s for Problematic Hydric Soils ³ :
Histosol	ipedon (A2)		Sandy Gle Sandy Re	-	IIX (54)			t Prairie Redox (A16) Manganese Masses (F12)
Black His			Stripped N	, ,	;)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	•	,,			Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu	, ,	eral (F1)			r (Explain in Remarks)
2 cm Mu	- , ,		Loamy Gl	-				(
	l Below Dark Sui	face (A11)	Depleted					
Thick Da	ark Surface (A12))	Redox Da	rk Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S	1)	Depleted	Dark Surl	face (F7)		wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Pea	(S3)	Redox De	pressions	s (F8)		unles	s disturbed or problematic.
estrictive I	Layer (if observ	ed):						
Type:								
Type: _ Depth (ir Remarks:	nches):						Hydric Soil Present	? Yes No_
Type: _ Depth (ir Remarks: Soils were lik	kely disturbed.						Hydric Soil Present	? Yes No_
Type: _ Depth (ir Remarks: Soils were lik	kely disturbed.						Hydric Soil Present	? Yes No_
Type: Depth (ir Pemarks: Soils were like Type Depth Control of the Pemarks	ely disturbed. OGY drology Indicate						Hydric Soil Present	? Yes No_
Type:	OGY drology Indicate cators (minimum		uired; check all that				<u>Seconda</u>	y Indicators (minimum of two requi
Type: Depth (in lemarks: oils were like type to lemarks were like type to lemarks) YDROLO Vetland Hyrrimary India Surface type type to lemark type type type type type type type type	OGY drology Indicate cators (minimum Water (A1)		Water-Sta	ined Lea			Secondal	y Indicators (minimum of two requir ce Soil Cracks (B6)
Type:	drology Indicate (actors (minimum) Water (A1) ter Table (A2)		Water-Sta Aquatic Fa	nined Lea auna (B1	3)		Secondar Surfa X Drain	ry Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10)
Type:	drology Indicate (cators (minimum) Water (A1) ter Table (A2) on (A3)		Water-Sta Aquatic Fa True Aqua	nined Lea auna (B1 atic Plant	3) s (B14)		Secondar Surfa X Drain Dry-S	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2)
Type:	drology Indicate (actors (minimum) Water (A1) (ter Table (A2) on (A3) arks (B1)		Water-Sta Aquatic Fa True Aqua Hydrogen	nined Lea auna (B1 atic Plant Sulfide C	3) s (B14) Odor (C1)		Secondal Surfa X Drain Dry-S Crayf	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8)
Type:	drology Indicate (bators (minimum) Water (A1) tter Table (A2) on (A3) arks (B1) arks (B2)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	nined Lea auna (B1 atic Plant Sulfide C Rhizosph	3) s (B14) Odor (C1) eres on L	iving R	Secondal Surfa X Drain Dry-S Crayl Doots (C3) Satur	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ation Visible on Aerial Imagery (C9
Type: Depth (in Person	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3)		Water-Sta Aquatic Fa True Aqua Hydrogen	ained Lea auna (B1 atic Plant Sulfide C Rhizosph of Reduc	3) s (B14) Odor (C1) eres on l ced Iron (iving Ro	Secondar Surfa X Drain Dry-S Crayl Satur Stunt	y Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) ish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)
Type:	drology Indicate (bators (minimum) Water (A1) tter Table (A2) on (A3) arks (B1) arks (B2)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ained Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc on Reduc	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti	iving Ro	Secondai Surfa X Drain Dry-S Crayl Satur Stunt Secondai	y Indicators (minimum of two requir ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) iish Burrows (C8) ation Visible on Aerial Imagery (C9
Type: Depth (in Semants: oils were like Surface High Wa Saturatic Water M Sedimen K Drift Dep Algal Ma Iron Dep	drology Indicate Cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) sosits (B3) t or Crust (B4)	of one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc	ained Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc on Reduc s Surface	3) s (B14) Odor (C1) eres on Led Iron (tion in Ti (C7)	iving Ro	Secondai Surfa X Drain Dry-S Crayl Satur Stunt Secondai	y Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (in Semarks: oils were like Performance High Wa Saturatic Water M Sedimen K Drift Dep Algal Ma Iron Dep Inundation	drology Indicate Cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) to r Crust (B4) osits (B5)	of one is required in the second of the seco	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc Thin Muck Gauge or	ained Lea auna (B1 atic Plants Sulfide (Rhizospho of Reduct on Reduct Surface Well Data	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9)	iving Ro	Secondai Surfa X Drain Dry-S Crayl Satur Stunt Secondai	y Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type:	drology Indicated cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) to Deposits (B2) oosits (B3) ot or Crust (B4) oosits (B5) on Visible on Aere Vegetated Concerns (B4)	of one is required in the second of the seco	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc Thin Muck Gauge or	ained Lea auna (B1 atic Plants Sulfide (Rhizospho of Reduct on Reduct Surface Well Data	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9)	iving Ro	Secondai Surfa X Drain Dry-S Crayl Satur Stunt Secondai	y Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type: Depth (in Depth (in Semants: oils were like Properties of the properties	drology Indicated cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) to Deposits (B2) oosits (B3) ot or Crust (B4) oosits (B5) on Visible on Aere Vegetated Concerns (B4)	of one is required in the second of the seco	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or (B8) No X	ained Lea auna (B1: atic Plants Sulfide C Rhizosph- of Reduc on Reduc c Surface Well Dat- plain in R	3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) eemarks)	Living Ro	Secondai Surfa X Drain Dry-S Crayl Satur Stunt Secondai	y Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type:	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) to Deposits (B3) to or Crust (B4) osits (B5) on Visible on Aer Vegetated Concevations: er Present?	ial Imagery (Ecave Surface (Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or (B8) No X No X No X	ained Lea auna (B1: atic Plants Sulfide C Rhizosph- of Reduc of Reduc of Surface Well Dat- plain in R	s (B14) Ddor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _	Living Ro	Secondal Surfa X Drain Dry-S Crayf Crayf Crayf Satur Stunt S (C6) X FAC-	ry Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Fish Burrows (C8) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Type:	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aer Vegetated Conceptations: er Present?	ial Imagery (Ecave Surface (Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or (B8) No X	ained Lea auna (B1: atic Plants Sulfide C Rhizosph- of Reduc on Reduc c Surface Well Dat- plain in R	s (B14) Ddor (C1) eres on L ced Iron (tion in Ti (C7) a (D9) emarks) nches): _ nches): _	Living Ro	Secondal Surfa X Drain Dry-S Crayf Crayf Crayf Satur Stunt S (C6) X FAC-	y Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ration Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2)
Type:	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aer Vegetated Conc vations: er Present? Present? Present?	ial Imagery (Ecave Surface (Yes	Water-Sta	ained Lea auna (B1: atic Plants Sulfide C Rhizosphof of Reduct on Reduct of Surface Well Data plain in R Depth (in Depth (in	3) s (B14) Ddor (C1) eres on L eres on L tition in Ti (C7) a (D9) emarks) nches): nches): nches):	Living Ro	Secondar Surfa X Drain Dry-S Crayf Doots (C3) Satur Stunt S (C6) Geon X FAC-	ry Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Fish Burrows (C8) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Type:	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aer Vegetated Conc vations: er Present? Present? Present?	ial Imagery (Ecave Surface (Yes	Water-Sta Aquatic Fa Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 37) Gauge or (B8) No X No X No X	ained Lea auna (B1: atic Plants Sulfide C Rhizosphof of Reduct on Reduct of Surface Well Data plain in R Depth (in Depth (in	3) s (B14) Ddor (C1) eres on L eres on L tition in Ti (C7) a (D9) emarks) nches): nches): nches):	Living Ro	Secondar Surfa X Drain Dry-S Crayf Doots (C3) Satur Stunt S (C6) Geon X FAC-	ry Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Fish Burrows (C8) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Type:	drology Indicate cators (minimum Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) on Visible on Aer Vegetated Conc vations: er Present? Present? Present?	ial Imagery (Ecave Surface (Yes	Water-Sta	ained Lea auna (B1: atic Plants Sulfide C Rhizosphof of Reduct on Reduct of Surface Well Data plain in R Depth (in Depth (in	3) s (B14) Ddor (C1) eres on L eres on L tition in Ti (C7) a (D9) emarks) nches): nches): nches):	Living Ro	Secondar Surfa X Drain Dry-S Crayf Doots (C3) Satur Stunt S (C6) Geon X FAC-	ry Indicators (minimum of two requirece Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) Fish Burrows (C8) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-11
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Flat	Local relief (concave, convex, none): None
Slope (%):0-5 Lat: 38.732839	Long: -90.500109 Datum: NAD 83
Soil Map Unit Name: Booker silty clay, frequently ponded, 0 to 2 per	cent slopes, occasionally flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology significantly di	sturbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally probl	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g 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	
Remarks:	•
The sample point was taken in a soybean/wheat field. SP-11 was ta exclusionary upland point to WTL-5. Conditions are wetter than nor	ken a few feet higher in elevation to SP-8 and SP-10, and serves as the nal. Upland.
VEGETATION – Use scientific names of plants.	
Absolute Tree Stratum (Plot size:) % Cover	Dominant Indicator Species? Status Dominance Test worksheet:
1.	Number of Dominant Species That
2.	Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species
4	Across All Strata: (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	(445)
1	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
jo	FAC species x 3 =
Herb Stratum (Plot size:)	UPL species x 5 =
1.	Column Totals: (A) (B)
2.	Prevalence Index = B/A =
3	
4	Hydrophytic Vegetation Indicators:
5. 6.	1 - Rapid Test for Hydrophytic Vegetation
7.	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
8.	4 - Morphological Adaptations ¹ (Provide supporting
9.	data in Remarks or on a separate sheet)
10	Problematic Hydrophytic Vegetation ¹ (Explain)
	Total Cover Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	be present, unless disturbed or problematic.
1. 2.	Hydrophytic Vegetation
	Vegetation

Profile Des Depth	cription: (Describe t	to the depth		cument thox Featur		ator or c	confirm the a	absence c	of indicators	.)	
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	Loc ²	Textu	ıre		Remarks	
	· · · · · · · · · · · · · · · · · · ·			1					Duamina		
0-16	10YR 3/1	99	10YR 3/6	- —	<u> </u>	M	Loamy/C	лауеу	Promine	nt redox conce	entrations
1Tymo: C=C	Concentration, D=Depl	otion DM=Da	duced Metrix	MC=Mool		Croins		2l ecetion	DI =Doro Li	ning, M=Matri	
	Indicators:	elion, Kivi–Ke	educed Matrix,	IVIO-IVIASI	teu Sant	Giailis				matic Hydric	
Histosol			Sandy Gl	eved Mat	ix (S4)				Prairie Red		
	pipedon (A2)		Sandy Re	-	(0 .)		-			fasses (F12)	
	istic (A3)		Stripped I		5)		-		Parent Materi	. ,	
	en Sulfide (A4)		Dark Surf	•	,		-			Surface (F22	?)
Stratifie	d Layers (A5)		Loamy M	ucky Mine	eral (F1)		-	Other	(Explain in F	Remarks)	•
2 cm Mu	uck (A10)		Loamy GI	eyed Mat	rix (F2)		-				
Deplete	d Below Dark Surface	(A11)	Depleted	Matrix (F	3)						
Thick D	ark Surface (A12)		Redox Da	ark Surfac	e (F6)		;	³ Indicators	s of hydrophy	tic vegetation	and
Sandy N	Mucky Mineral (S1)		Depleted	Dark Sur	face (F7)			wetlar	nd hydrology	must be pres	ent,
5 cm Mu	ucky Peat or Peat (S3)	Redox De	epression	s (F8)		unless disturbed or problematic.				
Restrictive	Layer (if observed):										
Type:			_								
Depth (i	nches):		_				Hydric Soi	I Present	?	Yes	No X
Remarks:											
The soils we	ere disturbed as the sa	ample point w	as taken in a s	oybean fi	eld.						
HYDROLO	OGY										
_	drology Indicators: icators (minimum of o	no ie roquirod	r check all that	annly)				Secondari	v Indicators /	minimum of to	vo required)
-	Water (A1)	ne is required	Water-Sta		ves (RQ)				ce Soil Crack		wo required)
	ater Table (A2)		Aquatic F		, ,		-		age Patterns	, ,	
Saturati	` '		True Aqua	,	,		-		eason Water		
	/arks (B1)		Hydrogen		, ,)	-		sh Burrows (
	nt Deposits (B2)		Oxidized				oots (C3)			on Aerial Imag	gery (C9)
	posits (B3)		Presence			-	` ′ -			ed Plants (D1)	,
	at or Crust (B4)		Recent Ire	on Reduc	tion in Ti	lled Soil:	s (C6)	Geom	orphic Posit	ion (D2)	
	posits (B5)		Thin Mucl	k Surface	(C7)				Neutral Test		
Inundati	ion Visible on Aerial Ir	nagery (B7)	Gauge or	Well Dat	a (D9)		-	<u></u>			
Sparsel	y Vegetated Concave	Surface (B8)	Other (Ex	plain in R	emarks)						
Field Obser	rvations:										
Surface Wa	ter Present? Ye	s	No X	Depth (ii	nches):						
Water Table	e Present? Yes	s	No X	Depth (ii	nches):						
Saturation F	Present? Yes	s	No X	Depth (ii	nches): _		Wetland	Hydrolog	y Present?	Yes	No X
(includes ca	pillary fringe)										
Describe Re	ecorded Data (stream	gauge, monit	oring well, aeri	al photos	previou	s inspec	ctions), if avai	lable:			
Remarks:											

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Ma	aryland Heights / St. Lo	ouis Sampling Da	ite: 8/18/2022	2
Applicant/Owner: NorthPoint Development, LLC		State: N	MO Sampling Po	int: SP-12	2
Investigator(s): B. Burkart and R. Thies	Section, Township	o, Range: N/A			
Landform (hillside, terrace, etc.): Toe of slope	Local rel	lief (concave, convex,	none): Concave		
Slope (%): 0-5 Lat: 38.738298	Long: -90.5039	26	Datum: NAD 8	3	
Soil Map Unit Name: Lowmo silt loam, 0 to 2 percent slopes, occasion	ally flooded	NW	classification: Upland		
Are climatic / hydrologic conditions on the site typical for this time of you	ear? Yes	No X (If	no, explain in Remark	s.)	
Are Vegetation, Soil, or Hydrology significantly dist		` mal Circumstances" pr		· ·	
Are Vegetation, Soil, or Hydrology naturally problem		d, explain any answers			
SUMMARY OF FINDINGS – Attach site map showing		•	,	eatures, et	c.
Hydrophytic Vegetation Present? Yes X No	Is the Sample	ad Area	<u> </u>		
Hydric Soil Present? Yes X No	within a Wetl		X No		
Wetland Hydrology Present? Yes X No			<u> </u>		
Remarks:	L				
The sample point was taken at the toe of a slope in a wetland betwee the project area to the west. Conditions were wetter than normal. WT		ybean field. A culvert f	eeds the wetland. The	wetland leave	S
VEGETATION – Use scientific names of plants.					
Absolute [Dominant Indicat				
· — · — · — — ·	Species? Statu		est worksheet:		
1		Number of Dor Are OBL, FAC	minant Species That W, or FAC:	1 (A))
3.		Total Number	of Dominant Species		
4		Across All Stra	ta: _	1 (B))
5	etal Cauca		ninant Species That	100.00/ ///	(D)
Sapling/Shrub Stratum (Plot size:)	otal Cover	Are OBL, FAC	vv, or FAC:	100.0% (A/	в)
1.		Prevalence In	dex worksheet:		
2.		Total % C		Itiply by:	
3.		OBL species	62 x 1 =	62	
4.		FACW species	25 x 2 =	50	
5.		FAC species	0 x 3 =	0	
=Tr	otal Cover	FACU species	2 x 4 =	8	
Herb Stratum (Plot size: 10x25)		UPL species	0 x 5 =	0	
1. Leersia oryzoides 60	Yes OBL	. Column Totals	: 89 (A)	120 (B))
2. Cyperus esculentus 10	No FACV	V Prevalence	Index = B/A =	1.35	
3. Phalaris arundinacea 10	No FACV				
4. Polygonum pensylvanicum 5	No FACV	_ ' ' ' '	egetation Indicators		
5. <u>Typha latifolia</u> 2	No OBL		Test for Hydrophytic Ve	egetation	
6. Sorghum halepense 2	No FACL	_	ance Test is >50%		
7		_	ence Index is ≤3.0 ¹		
8			ological Adaptations ¹ (F Remarks or on a sepai		ting
9			·	,	
10		_	ic Hydrophytic Vegeta	` ' '	
<u>89</u> =To <u>Woody Vine Stratum</u> (Plot size:)	otal Cover		ydric soil and wetland ess disturbed or probl		;t
1		Hydrophytic			
2.		I HYUIODIIVUC			
_		Vegetation			
=======================================	otal Cover		Yes X No		

Color (moist) Work Color (moist) Work Color (moist) Work Type Loc² Texture Remarks	Profile Desc Depth	cription: (Descr Matr	-				ator or c	confirm the absence	of indicators.)
Also has 10YR 5/1 93 10YR 3/6 5 C PUM Loamy/Clayey Prominent redox concentr	· ·						Loc ²	Texture	Remarks
Also has 10YR 5/1, 2%, Also has 10YR 5/1,									
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Red Parent Material (F21) Stratified Layers (A5) Derk Surface (S7) Very Shallow (A14) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (F1) Depleted Below Dark Surface (A13) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Below Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primar Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X High Water Table (A2) A qualic Fauna (B13) Dry-Season Water Table (C2) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Crayfish Burnow (C8) Surface Soil Cracks (B6) Dry-Season Water Table (C2) Tron Deposits (B3) Presence of Reduced fron (C1) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Vater (A1) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Noter Present? Yes X No Depth (inches): Undudes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:		1011(3/1		10111 3/0			I L/IVI	Loamy/Clayey	
Hydric Soil Indicators:									Also nas 10YR 5/1, 2%, D, M
Hydric Soil Indicators for Problematic Hydric Soil Flats Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Coher (Explain in Remarks) Coher									
Hydric Soil Indicators for Problematic Hydric Soil Cast Prairie Redox (A16) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Other (Explain in Remarks) Other (Explain in Rema									
Hydric Soil Indicators for Problematic Hydric Soil Cast Prairie Redox (A16) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Other (Explain in Remarks) Other (Explain in Rema		-							
Hydric Soil Indicators for Problematic Hydric Soil Cast Prairie Redox (A16) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Red Parent Material (F21) Other (Explain in Remarks) Other (Explain in Rema									
Hydric Soil Indicators Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Coast Prairie Redox (A16) Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (S7) Very Shallow Dark Surface (F22) Very S									_
Hydric Soil Indicators Indicators for Problematic Hydric Soil Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (S7) Very Shallow Dark Surface (F22) Very	¹ Type: C=Co	oncentration, D=	Depletion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	Grains	. ² Location	: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Blow Dark Surface (A10) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Blow Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Seminary Mucky Mineral (S1) Some Mucky Peat or Peat (S3) Redox Depressions (F8) Wetland Hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed): Type: Depth (inches): Primary Indicators (minimum of one is required: check all that apply) X Surface Water (A1) X High Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Dry-Season Water Table (C2) Drift Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) True Aquatic Plants (B1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Water Table (Pcsent? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetla	Hydric Soil	Indicators:	•						•
Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (S7) Very Shallow Dark Surface (F22) Very Shallow Dark Surface (F22) Stratified Layers (A5) Loamy Mucky Mineral (F1) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) 3Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X I Water Atable (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Surface Water (A1) Drainage Patterns (B10) X Surface Water (A1) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C8) X Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes	Histosol	(A1)		Sandy Gle	eyed Mat	trix (S4)		Coas	t Prairie Redox (A16)
Hydrogen Sulfide (A4)	Histic Ep	oipedon (A2)		Sandy Re	dox (S5)			Iron-l	Manganese Masses (F12)
Stratified Layers (A5)	Black His	stic (A3)		Stripped N	/latrix (S	6)		Red I	Parent Material (F21)
2 cm Muck (A10)	X Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) X Redox Dark Surface (F6) Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Secondary Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Permary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) Water Table (A2) Water Marks (B1) Sediment Deposits (B3) Sediment Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) In Deposits (B3) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Pield Observations: Surface Water Present? Yes X No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Stratified	l Layers (A5)		Loamy Mu	ıcky Min	eral (F1)		Other	r (Explain in Remarks)
Thick Dark Surface (A12)		, ,	_						
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)			, ,		,	•		3	
S cm Mucky Peat or Peat (S3) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed):						, ,			· · · · ·
Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X Hydrogen Sulfide Advantic Fauna (B13) X Saturation (A3) X Hydrogen Sulfide Odor (C1) X Sediment Deposits (B2) Dirit Deposits (B3) Dirit Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Algal Mat or Crust (B4) Foend Iron Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) Dirit Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Water Table Present? Yes X No Depth (inches): Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:		•	•			` '	1		• •
Type:	5 cm Mu	icky Peat or Pea	(83)	Redox De	pression	is (F8)		unles	is disturbed or problematic.
Depth (inches): HYDROLOGY		Layer (if observ	ed):						
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X High Water Table (A2) Yet Aquatic Fauna (B13) X Saturation (A3) X Hydrogen Sulfide Odor (C1) Yet Meter Marks (B1) Yet Meter Marks (B1) Yet Meter Marks (B1) Yet Meter Marks (B3) Presence of Reduced Iron (C4) Into Deposits (B3) Presence of Reduced Iron (C4) Into Deposits (B5) Into Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Other (Explain photos, previous inspections), if available:	-	1 \							
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Water Table (A2) Advantic Fauna (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Advantic Plants (B14) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Iron Deposits (B5) Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Other (Ferein Reductions), if available:	Depth (ir	nches):		_				Hydric Soil Present	:? Yes <u>X</u> No _
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two recompleted in the primary Indicators (minimum of two recompleted in the present? X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) X Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Innundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No	HYDROLO)GY							
Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) X High Water Table (A2) Water-Stained Leaves (B9) X Saturation (A3) True Aquatic Fauna (B13) Water Marks (B1) X Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Tried Observations: Surface Water Present? Yes X No Depth (inches): Secondary Indicators (minimum of two reconstructions) Surface (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B10) Dray-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Indication Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Owetland Hydrology Present? Yes X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			vre.						
X Surface Water (A1)	_			red: check all that	apply)			Secondar	v Indicators (minimum of two requir
X High Water Table (A2) X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Other (Explain in Remarks) Wetland Hydrology Present? Yes X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			or one is requi			aves (B9)			•
X Saturation (A3)		, ,							
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): Saturation Visible on Aerial Imagery (B7) Depth (inches): Saturation Present? Yes X No Saturation Visible on Aerial Imagery X FAC-Neutral Test (D5) X FAC-Neutral Test (D5) X FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X Inches X					•				
Drift Deposits (B3)				X Hydrogen	Sulfide (Odor (C1))		
Algal Mat or Crust (B4)	Sedimen	nt Deposits (B2)		Oxidized F	Rhizosph	neres on l	_iving Ro	oots (C3) Satur	ration Visible on Aerial Imagery (C9
Iron Deposits (B5)	Drift Dep	oosits (B3)		Presence	of Redu	ced Iron ((C4)	Stunt	ed or Stressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 0 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		` '					lled Soil:		
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present?								X FAC-	Neutral Test (D5)
Field Observations: Surface Water Present? Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 0 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X I (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			• • •	·					
Surface Water Present? Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 0 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X I (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			cave Surface (E	38)Other (Exp	olain in F	Remarks)		1	
Water Table Present? Yes X No Depth (inches): 0 Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X I (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Saturation Present? Yes X No Depth (inches): 0 Wetland Hydrology Present? Yes X I (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						′ -			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						′ =		Watland Undrala	my Drosout2 Vos V No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			res	NO	Depth (i	inches):_	0	wetiand hydrolog	gy Present? Yes X No _
			eam naune mo	nitoring well aeria	al nhotos	nrevious	s inspec	tions) if available:	
Remarks:	Dogoribe Ne	co. dod Data (Sti	Jam gaago, me	Antoning won, acre	, priotos	, proviou	о пторос	aonoj, ii avallabio.	
	Remarks:								

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights	/ St. Louis Sampli	ing Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	Sta	ite: MO Sampli	ng Point: SP-13
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A	4	
Landform (hillside, terrace, etc.): Flat	Local relief (concave, c	onvex, none): None	
Slope (%): Lat: 38.738228	Long: -90.503860	Datum: N	NAD 83
Soil Map Unit Name: Lowmo silt loam, 0 to 2 percent slopes, occasion	ally flooded	NWI classification: U	Jpland
Are climatic / hydrologic conditions on the site typical for this time of	ear? Yes No >	(If no, explain in Re	emarks.)
Are Vegetation X , Soil X , or Hydrology significantly dis	urbed? Are "Normal Circumstar	nces" present? Yes	No X
Are Vegetation, Soil, or Hydrologynaturally proble		_	
SUMMARY OF FINDINGS – Attach site map showing		, transects, import	ant 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			
Remarks:	•		
The sample point was taken in a soybean field about 1 foot higher in 7. Conditions were wetter than normal. Upland.	elevation than SP-12 and serves	as the upland exclusiona	ary point for SP-12/WTL
VEGETATION – Use scientific names of plants. Absolute	Dominant Indicator		
<u>Tree Stratum</u> (Plot size:) % Cover		ance Test worksheet:	
1.	Numbe	er of Dominant Species 1	Гһаt
2	Are OE	BL, FACW, or FAC:	(A)
3		lumber of Dominant Spe	
4		All Strata:	(B)
		t of Dominant Species T BL, FACW, or FAC:	hat (A/B)
Sapling/Shrub Stratum (Plot size:)	7.110	_, , , , , , , , , , , , , , , , , , ,	(\'\'\'
1	Preval	ence Index worksheet:	
2.	To	otal % Cover of:	Multiply by:
3			(1 =
<u> </u>			(2 =
] 5			(3 = (4 =
Herb Stratum (Plot size:)	UPL sp	·	5 =
1.	•	n Totals: (A)	(B)
2.	Prev	valence Index = B/A =	
3			
4		ohytic Vegetation Indic	
5		Rapid Test for Hydrophy Dominance Test is >50°	
6		Prevalence Index is ≤3.	
8.		Morphological Adaptation	
9.		data in Remarks or on a	' '
10		oblematic Hydrophytic V	
		tors of hydric soil and we	, ,,
Woody Vine Stratum (Plot size:) 1.	·	sent, unless disturbed or	problematic.
2.	Hydrop	-	
	otal Cover Preser		No X
Remarks: (Include photo numbers here or on a separate sheet.)			
Vegetation is disturbed as the sample point was taken in a soybean	eld.		

	• •	•				ator or o	confirm the absence	of indicators.)	
Depth	Matri		Red	ox Featur					
(inches)	Color (moist	<u> %</u> _	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/1	80	10YR 3/6	10	<u>C</u>	<u>M</u>	Loamy/Clayey	Also has 10YR 5/2, 10%, D, M	
		<u> </u>							
				<u> </u>					
-								-	
	-								
l ———								-	
	oncentration, D=[Depletion, RM=R	leduced Matrix,	MS=Mas	ked San	d Grains		: PL=Pore Lining, M=Matrix.	
Hydric Soil								rs for Problematic Hydric Soils ³ :	
Histosol			Sandy Gl	-	rix (S4)			t Prairie Redox (A16)	
	pipedon (A2)		Sandy Re					Manganese Masses (F12)	
	stic (A3)		Stripped I	,	5)			Parent Material (F21)	
_ · ·	n Sulfide (A4)		Dark Surf	, ,	1 (54)			Shallow Dark Surface (F22)	
	d Layers (A5)		Loamy M	-			Otne	r (Explain in Remarks)	
	ick (A10)	face (A11)	Loamy Gl						
l — ·	d Below Dark Sur ark Surface (A12)	ace (ATT)	X Redox Da	,	,		3Indicator	rs of hydrophytic vegetation and	
	lucky Mineral (S1	`	X Depleted		, ,	`		and hydrology must be present,	
	icky Peat or Peat	•	Redox De		` '	,		ss disturbed or problematic.	
	•	` '	RCGOX BC	ргозоюн	3 (1 0)		dilloc	do distarbed of problematic.	
	Layer (if observe	ea):							
Type: Depth (ii	nchee).		_				Hydric Soil Presen	t? Yes X No	
, ,			_				Tiyunc 3011 Fresen	1es_ <u></u>	_
Remarks:	turbed as the san	anle noint was to	ken in a souher	n fiold					
Solis are dis	turbed as the san	ipie poirit was te	iken in a soybea	an neid.					
HYDROLO	OGY								
Wetland Hy	drology Indicato	rs:							
_	cators (minimum		d; check all that	apply)			<u>Seconda</u>	ry Indicators (minimum of two requir	<u>ed)</u>
Surface	Water (A1)	•	Water-Sta	ained Lea	ves (B9))	Surfa	ace Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drair	nage Patterns (B10)	
Saturation	on (A3)		True Aqu	atic Plant	s (B14)		Dry-9	Season Water Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide (Odor (C1)	Cray	fish Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	eres on l	Living R	oots (C3) Satu	ration Visible on Aerial Imagery (C9))
Drift Dep	oosits (B3)		Presence	of Reduc	ced Iron	(C4)	Stun	ted or Stressed Plants (D1)	
	at or Crust (B4)		Recent Ire			illed Soil	s (C6) Geor	norphic Position (D2)	
	oosits (B5)		Thin Muc				FAC-	Neutral Test (D5)	
	on Visible on Aeri		Gauge or						
Sparsely	/ Vegetated Conc	ave Surface (B8) Other (Ex	plain in F	temarks)	l			
Field Obser									
Surface Wat		Yes	No X	Depth (i	· -				
Water Table		Yes	No X	Depth (i					
Saturation P		Yes	No X	Depth (i	nches):_		Wetland Hydrolo	gy Present? Yes No	<u>X</u>
	pillary fringe)			_1 _1			tions Vife on the late		
Describe Re	corded Data (stre	am gauge, mon	itoring well, aeri	aı pnotos	, previou	s inspec	tions), if available:		
Remarks:									
i veillains.									
1									

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	Project/Site: NorthPoint Development City/County: 1							
Applicant/Owner: NorthPoint Development, LLC				State: M	O San	npling Poi	nt: S	P-14
Investigator(s): B. Burkart and R. Thies		Section, T	ownship, Ra	nge: N/A				
Landform (hillside, terrace, etc.): Toe of slope		լ	ocal relief (concave, convex, n	one): Conca	ıve		
Slope (%): 0-5 Lat: 38.735313		Long: -9	90.509095		Datum	n: NAD 83	 3	
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent	t slopes, o			NWI	 classificatior			
Are climatic / hydrologic conditions on the site typical for	this time o	f year?	Yes	No X (If r	ıo, explain ir	Remarks	3.)	
Are Vegetation, Soil, or Hydrologysig		-						
Are Vegetation, Soil, or Hydrologynat				plain any answers				_
SUMMARY OF FINDINGS – Attach site map				•			eatures	, etc.
Hydrophytic Vegetation Present? Yes X No		lo the	Sampled A	roo				
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No			a Wetland		X N	0		
Wetland Hydrology Present? Yes X No		"""	i a wedana			<u> </u>		
Remarks:								
The sample point was taken in a wetland between a leve	ee and an	active soybear	n field. Cond	itions were wetter t	han normal.	WTL-8.		
VEGETATION – Use scientific names of plant								
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	st worksher	ot.		
1.	70 00101	Ороскоо.	Otatao	Number of Dom				
2.				Are OBL, FACV		_	2	(A)
3.				Total Number o	f Dominant S	Species		
4				Across All Strat	a:	_	2	_(B)
5		Total Cavar		Percent of Dom	•	s That	100.00/	(A /D)
Sapling/Shrub Stratum (Plot size:)		=Total Cover		Are OBL, FACV	7, or FAC:	_	100.0%	_ (A/B)
1				Prevalence Ind	ex workshe	et:		
2.				Total % Co			tiply by:	
3.				OBL species	75	x 1 =	75	_
4.				FACW species	25	x 2 =	50	_
5				FAC species	0	x 3 =	0	_
<u> </u>	:	=Total Cover		FACU species	0	x 4 =	0	_
Herb Stratum (Plot size: 10x30)				UPL species	5	x 5 =	25	_
Acorus calamus	35	Yes	OBL	Column Totals:		(A) _	150	_(B)
2. Leersia oryzoides	35	Yes	OBL	Prevalence II	ndex = B/A	=1	1.43	_
3. Cyperus esculentus	10	No	FACW					
4. Polygonum pensylvanicum	10	No No	FACW	Hydrophytic Ve	-			
5. <u>Setaria viridis</u>	5	No	UPL	· ·	est for Hydro		getation	
6. Equisetum hyemale	5	No No	FACW	X 2 - Dominar				
7. Phyla lanceolata 8.		<u>No</u>	OBL	X 3 - Prevaler	ogical Adapt		rovido ou	onortina
9.					emarks or o			
10.				Problematic	Hydrophytic	c Vegetati	ion¹ (Expla	ain)
	105 :	Total Cover		¹ Indicators of hy		_		
Woody Vine Stratum (Plot size:)				be present, unle				maot
1				Hydrophytic				
2.				Vegetation				
<u> </u>	:	=Total Cover		Present?	Yes X	No_		
Remarks: (Include photo numbers here or on a separat	e sheet.)							

Profile Desc Depth	ription: (Descri Matri:	-		ument t ox Featu		ator or c	onfirm the absence of	ot indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-16	2.5Y 3/1	98	10YR 3/6	2		M	Sandy	Prominent redox concentration			
	-										
	-										
1			-Dadwaad Matrix		Load Care		21 ti	. Di -Dana Linina M-Matriu			
Hydric Soil I		pepietion, Rivi-	=Reduced Matrix,	vi5=ivias	ked Sand	u Grains.		: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :			
Histosol (Sandy Gle	ved Mat	riv (S4)			t Prairie Redox (A16)			
	ipedon (A2)		X Sandy Re	-				Manganese Masses (F12)			
Black His			Stripped N	, ,				Parent Material (F21)			
	n Sulfide (A4)		Dark Surf	•	-,			Shallow Dark Surface (F22)			
	Layers (A5)		Loamy Mu		eral (F1)			r (Explain in Remarks)			
2 cm Mu			Loamy GI	-				,			
	Below Dark Surf	ace (A11)	Depleted	•	, ,						
	rk Surface (A12)	, ,	Redox Da	,	•		³ Indicators of hydrophytic vegetation and				
Sandy M	ucky Mineral (S1)	Depleted	Dark Sui	face (F7))	wetla	nd hydrology must be present,			
5 cm Mucky Peat or Peat (S3) Redox Depressions (F8)				ıs (F8)		unles	s disturbed or problematic.				
Restrictive L	ayer (if observe	ed):									
Type:											
Depth (in	ches):						Hydric Soil Present	:? Yes <u>X</u> No_			
Remarks:											
The soil may	be comprised of	fill from the co	onstruction of the I	evee as	the samp	ole point	was taken at the toe o	f a levee.			
HYDROLO											
-	Irology Indicato										
		of one is requi	red; check all that		(5.0)			y Indicators (minimum of two requi			
X Surface \	, ,		Water-Sta		, ,)		ice Soil Cracks (B6)			
	ter Table (A2)		X Aquatic F	•				age Patterns (B10)			
X Saturatio	` '		True Aqua			`		Season Water Table (C2)			
Water Ma	` '		X Hydrogen Oxidized I		,	,		fish Burrows (C8)			
	t Deposits (B2)					•	` '	ration Visible on Aerial Imagery (C9			
	osits (B3) t or Crust (B4)		Presence Recent Ind					ed or Stressed Plants (D1) norphic Position (D2)			
Iron Depo			Thin Mucl			illeu Solis	` '	Neutral Test (D5)			
	on Visible on Aeri	al Imagery (B7			. ,		<u>X</u> 170-	rvedital rest (D3)			
	Vegetated Conc	0 , (· — ·		, ,						
Field Observ											
Surface Water		Yes X	No	Depth (inches):	2					
Water Table		Yes X	No	Depth (· -	0					
Saturation Pr		Yes X	No	. ,	inches):	0	Wetland Hydrolog	gy Present? Yes X No			
(includes cap	illary fringe)			, ,	´ -						
		am gauge, mo	onitoring well, aeria	al photos	, previou	s inspec	tions), if available:				
D !											
Remarks:											

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-15
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Slight hillslope	Local relief (concave, convex, none): None
Slope (%): <u>5-10</u> Lat: <u>38.735097</u>	Long: <u>-90.508907</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occa	sionally flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology significantly dist	urbed? Are "Normal Circumstances" present? Yes No _X
Are Vegetation, Soil, or Hydrologynaturally probler	natic? (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	
Remarks:	
The sample point was taken in a soybean field about 1 foot higher in Conditions were wetter than normal. Upland.	elevation to SP-14/WTL-8 and serves as the exclusionary upland point.
VEGETATION – Use scientific names of plants.	
	Ominant Indicator Species? Status Dominance Test worksheet:
1.	Number of Dominant Species That
2.	Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species
4	(B)
5	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	(vs)
1	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
	FAC species x 3 = FACU species x 4 =
Herb Stratum (Plot size:	UPL species x 5 =
1.	Column Totals: (A) (B)
2.	Prevalence Index = B/A =
3	
4	Hydrophytic Vegetation Indicators:
5. 6.	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8.	4 - Morphological Adaptations (Provide supporting
9.	data in Remarks or on a separate sheet)
10	Problematic Hydrophytic Vegetation ¹ (Explain)
	¹Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:) 1.	be present, unless disturbed or problematic.
2.	Hydrophytic Vegetation
	otal Cover Present? Yes No X
<u></u> · · ·	··· <u></u> ··· <u></u>

	cription: (Descr	ibe to the dept				ator or o	confirm the absence	of indicators	.)	
Depth	Matr			ox Featu						
(inches)	Color (moist) % _	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 4/2	100					Loamy/Clayey			
							1			
-										
				- —						
1 _{Type: C=C}	oncentration, D=I	Oppletion PM=	Poducod Matrix	MS=Moo	kod Son		² l coatio	n: PL=Pore Li	nina M-Matrix	,
Hydric Soil		Depletion, Kivi-i	reduced Matrix,	IVIO-IVIAS	keu San	Giallis		ors for Proble		•
Histosol			Sandy Gl	eved Mat	rix (S4)			ist Prairie Redo	-	
	oipedon (A2)		Sandy Re	-				-Manganese M		
Black Hi			Stripped I					l Parent Materia	, ,	
	n Sulfide (A4)		Dark Surf	•	,			y Shallow Dark	. ,)
Stratified	d Layers (A5)		Loamy M	ucky Min	eral (F1)			er (Explain in F		
2 cm Mu	ıck (A10)		Loamy Gl	eyed Ma	trix (F2)					
Depleted	d Below Dark Sur	face (A11)	Depleted	Matrix (F	3)					
Thick Da	ark Surface (A12)		Redox Da	ırk Surfa	ce (F6)		³ Indicate	ors of hydrophy	tic vegetation	and
Sandy M	lucky Mineral (S1)	Depleted	Dark Sur	face (F7)	١	wetl	land hydrology	must be prese	ent,
5 cm Mu	icky Peat or Peat	(S3)	Redox De	pression	ıs (F8)		unle	ess disturbed o	r problematic.	
Restrictive	Layer (if observe	ed):								
Type:			_							
Depth (ii	nches):		_				Hydric Soil Presei	nt?	Yes	No X
Remarks:										
The soils we	ere disturbed as th	ne sample point	was taken in a s	oybean f	ield.					
HYDROLO	OGY									
	drology Indicate	ors:								
_	cators (minimum		ed: check all that	apply)			Seconda	ary Indicators (minimum of tw	vo required)
	Water (A1)		Water-Sta		aves (B9)			face Soil Crack		,
	ater Table (A2)		Aquatic F					inage Patterns		
Saturation	on (A3)		True Aqua				Dry-	-Season Water	Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide	Odor (C1)	Cra	yfish Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized	Rhizosph	neres on I	_iving R	oots (C3) Sati	uration Visible	on Aerial Imag	ery (C9)
Drift Dep	oosits (B3)		Presence			, ,		nted or Stresse	. ,	
	at or Crust (B4)		Recent Ire			lled Soil		morphic Positi		
	oosits (B5)		Thin Mucl				FAC	C-Neutral Test	(D5)	
	on Visible on Aer									
	/ Vegetated Cond	ave Surrace (Ba	8) Other (Ex	piain in F	remarks)		1			
Field Obser		V	NI- V	D = = 41= /3	:\.					
Surface Wat		Yes	No X		inches): _					
Water Table Saturation P		Yes Yes	No X No X	Depth (i Depth (i			Wetland Hydrolo	nav Procent?	Yes	No X
	pillary fringe)		110 <u>X</u>	Deptii (i			vvetiana nyarok	ogy i resent:		<u> </u>
		eam gauge, mor	nitoring well, aeri	al photos	. previou	s inspec	tions), if available:			
2 2301.50 110	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:										
i)										

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development		City/Cou	nty: Marylan	d Heights / St. Louis	Sampling Da	ate: <u>8/18</u>	/2022
Applicant/Owner: NorthPoint Development, LLC				State: MO	Sampling Po	int: S	P-16
Investigator(s): B. Burkart and R. Thies		Section, T	ownship, Rai	nge: N/A			
Landform (hillside, terrace, etc.): Toe of slope			Local relief (c	oncave, convex, none):	Concave		
Slope (%): 0-5 Lat: 38.735110		Long: -	90.509393		Datum: NAD 8	3	
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percen	t slopes, o	ccasionally flo	oded	NWI class	ification: Upland	t	
Are climatic / hydrologic conditions on the site typical for	this time o	f year?	Yes	No X (If no, ex	plain in Remark	(s.)	
Are Vegetation, Soil, or Hydrologysig	nificantly o	disturbed? A	Are "Normal C	Circumstances" present?			
Are Vegetation, Soil, or Hydrologyna				plain any answers in Re			_
SUMMARY OF FINDINGS – Attach site map				•	*	features	, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No			Sampled Ar		No		
Wetland Hydrology Present? Yes X No		Within	i a wetianu:	les	No		
Remarks: The sample point was taken in a wetland between a lev	ee and a s	ovbean field (Conditions we	ere wetter than normal.	WTI -9		
The cample point has taken in a neutral a settlect a left	oo ana a o	oyboan noid.	oonamono w	ore wetter than normal.			
VEGETATION – Use scientific names of plant							
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:		
1. 2.	-			Number of Dominant Are OBL, FACW, or	•	2	(A)
3				Total Number of Don Across All Strata:	ninant Species	2	(B)
5.				Percent of Dominant	•		_
Sapling/Shrub Stratum (Plot size:)		=Total Cover		Are OBL, FACW, or	-AC: _	100.0%	– ^(A/B)
1				Prevalence Index w	orksheet:		
2				Total % Cover o	f: Mu	Itiply by:	_
3				· -	35 x 1 = _	85	_
4				FACW species 1	10 x 2 = _	20	_
5					0 x 3 = _	0	_
-		=Total Cover			0 x 4 = _	0	_
Herb Stratum (Plot size: 15x30)	50	V	ODI	· -	$\frac{0}{25}$ x 5 = _	0	- (D)
Typha latifolia Schoenoplectus tabernaemontani	20	Yes Yes	OBL OBL	Column Totals: 9 Prevalence Index	95 (A) - B/A -	105 1.11	- ^(B)
Leersia oryzoides	15	No	OBL	Frevalence index	- b/A -	1.11	-
Cyperus esculentus	5	No	FACW	Hydrophytic Vegeta			
5. Echinochloa crus-galli	5	No	FACW	1 - Rapid Test fo			
6.			17.011	X 2 - Dominance T	, , ,	ogotation	
7.				X 3 - Prevalence In			
8.				4 - Morphologica		Provide su	pporting
9.					ks or on a sepa		
10.				Problematic Hyd	rophytic Vegeta	tion ¹ (Expl	ain)
Woody Vine Stratum (Plot size:)	95	=Total Cover		¹ Indicators of hydric s	soil and wetland	hydrology	
1				Hydrophytic			
2				Vegetation			
<u> </u>		=Total Cover		Present? Yes	X No		
Remarks: (Include photo numbers here or on a separat	e sheet.)						

Depth (inches)	Matrix			x Featur			onfirm the absence	,
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	2.5Y 3/1	98	10YR 3/6	2	<u> </u>	<u>M</u>	Sandy	Prominent redox concentrations
1 _{Type: C=C}	oncentration, D=Dep	olotion DM-	-Poducod Matrix I		kod San		² l contin	n: PL=Pore Lining, M=Matrix.
Hydric Soil		Jielion, Kivi-	-Neduced Matrix, i	vio-ivias	keu San	i Giailis.		ors for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	ved Mat	rix (S4)			ast Prairie Redox (A16)
	pipedon (A2)		X Sandy Re	-				n-Manganese Masses (F12)
Black His			Stripped N					d Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	,	-,			y Shallow Dark Surface (F22)
	Layers (A5)		Loamy Mu		eral (F1)			er (Explain in Remarks)
2 cm Mu	- , ,		Loamy Gle	-				er (2/prain in Normanie)
	d Below Dark Surfac	e (A11)	Depleted I					
	ark Surface (A12)	· (· · · ·)	Redox Da	•	•		3Indicate	ors of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted I		, ,	,		land hydrology must be present,
<u> </u>	icky Peat or Peat (S	3)	Redox De		` '			ess disturbed or problematic.
Restrictive I	Layer (if observed)	:		-				
Type:		•						
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
Remarks:						I		
	Tiave been compile	sed of fill fro	m the construction	of the le	evee.			
UVDBOL O		ea or illi fro	m the construction	of the le	evee.			
HYDROLO	DGY		m the construction	of the le	evee.			
Wetland Hy	DGY drology Indicators:	:			evee.		Sanand	on Indicators (minimum of two require
Wetland Hyd	OGY drology Indicators: cators (minimum of o	:	red; check all that	apply)				ary Indicators (minimum of two required
Wetland Hyd Primary Indic X Surface	OGY drology Indicators: cators (minimum of o	:	red; check all that Water-Sta	apply) ined Lea	ıves (B9)		Sur	face Soil Cracks (B6)
Wetland Hyde Primary India X Surface X X High Wa	DGY drology Indicators: cators (minimum of o	:	red; check all that Water-Sta Aquatic Fa	apply) ined Lea auna (B1	ives (B9) 3)		Sur Dra	face Soil Cracks (B6) inage Patterns (B10)
Wetland Hyde Primary Indic X Surface X X High Wa X Saturation	drology Indicators: cators (minimum of of Water (A1) oter Table (A2) on (A3)	:	red; check all that Water-Sta Aquatic Fa True Aqua	apply) ined Lea auna (B1 atic Plant	ives (B9) 3) s (B14)		Sur Dra Dry	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Wetland Hyderimary Indices X Surfaces X High Water M Water M	drology Indicators: cators (minimum of a Water (A1) tter Table (A2) on (A3) arks (B1)	:	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen	apply) ined Lea auna (B1 tiic Plant Sulfide (ves (B9) 3) s (B14) Ddor (C1)	Sur Dra Dry Cra	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
Wetland Hyv Primary Indio X Surface X High Wa X Saturatio Water M Sedimen	drology Indicators: cators (minimum of a Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2)	:	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized F	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph	ves (B9) 3) s (B14) Ddor (C1 eres on l) _iving Ro	Sur Dra Dry Cra coots (C3) Sat	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
Wetland Hyderimary India X Surface X High Wa X Saturatic Water M Sediment Drift Dep	drology Indicators: cators (minimum of a Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3)	:	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized F	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc	oves (B9) 3) s (B14) Odor (C1 eres on loced Iron o) _iving Ro (C4)	Sur Dra Dry Cra Sat X Stu	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Wetland Hyderimary India X Surface X High Wa X Saturatio Water M Sediment Drift Dep X Algal Ma	drology Indicators: cators (minimum of a Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) tt or Crust (B4)	:	red: check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Iro	apply) ined Lea auna (B1 tic Plant Sulfide (Rhizosph of Reduc on Reduc	oves (B9) 3) s (B14) Odor (C1 eres on l ced Iron o) _iving Ro (C4)	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Wetland Hyderimary India X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep	drology Indicators: cators (minimum of a Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3)	: one is requi	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Iro	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc n Reduc Surface	oves (B9) 3) s (B14) Odor (C1 eres on lead Iron election in Ties (C7)) _iving Ro (C4)	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Wetland Hyderimary India X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatio	drology Indicators: cators (minimum of a Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	: one is requi	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc n Reduc s Surface Well Dat	oves (B9) 3) s (B14) Odor (C1 eres on lead Iron election in Tiele (C7) a (D9)) _iving Ro (C4)	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Wetland Hyderimary India X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatio	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial In	: one is requi	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc n Reduc s Surface Well Dat	oves (B9) 3) s (B14) Odor (C1 eres on lead Iron election in Tiele (C7) a (D9)) _iving Ro (C4)	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Wetland Hyd Primary Indio X Surface X High Wa X Saturatio Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatio Sparsely	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial In v Vegetated Concave vations:	: one is requi	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Iro Thin Muck 7) Gauge or	apply) ined Lea auna (B1 stic Plant Sulfide (Rhizosph of Reduc n Reduc s Surface Well Dat	oves (B9) 3) s (B14) Ddor (C1 eres on lead from the (C7) a (D9) Remarks)) _iving Ro (C4)	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Wetland Hyderimary Indice X Surface X High Wa X Saturatio Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatio Sparsely Field Observation	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present?	: one is requi Imagery (B7 e Surface (E	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 88) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc to Reduc to Surface Well Dat	oves (B9) 3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) Remarks) nches): _) Living Rc (C4) Illed Soils	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) omorphic Position (D2)
Wetland Hyderimary Indice X Surface X High Wa X Saturatio Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Water	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Ye Present?	: one is requi Imagery (B7 e Surface (E	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Ird Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc t Surface Well Dat blain in R	oves (B9) 3) s (B14) Ddor (C1 eres on led from the (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils	Sur Dra Dry Cra Sat X Stu Ss (C6) X Geo	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indice X Surface X High Wa X Saturatio Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatio Sparsely Field Obser Surface Wat Water Table	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Present? Yeresent?	one is requi	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Ird Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on led from the (C7) a (D9) Remarks) nches): _ nches): _) Living Ro (C4) Illed Soils 2 0	Sur Dra Dra Dry Cra Sat X Stu S (C6) X FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indice X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Table Saturation P (includes cap	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Present? Yeresent?	Imagery (B7 e Surface (E es X es X es X	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Irc Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat Depth (i Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) Remarks) nches): nches): nches):) Living Ro C4) Illed Soils 2 0 0	Sur Dra Dry Cra Sots (C3) Sat X Stu S (C6) X FAC Wetland Hydrole	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indice X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Table Saturation P (includes cap Describe Received)	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Present? Ye resent? Ye poillary fringe)	Imagery (B7 e Surface (E es X es X es X	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Irc Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat Depth (i Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) Remarks) nches): nches): nches):) Living Ro C4) Illed Soils 2 0 0	Sur Dra Dry Cra Sots (C3) Sat X Stu S (C6) X FAC Wetland Hydrole	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indice X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Table Saturation P (includes cap	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Present? Ye resent? Ye poillary fringe)	Imagery (B7 e Surface (E es X es X es X	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Irc Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat Depth (i Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) Remarks) nches): nches): nches):) Living Ro C4) Illed Soils 2 0 0	Sur Dra Dry Cra Sots (C3) Sat X Stu S (C6) X FAC Wetland Hydrole	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indice X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Table Saturation P (includes cap Describe Received)	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Present? Ye resent? Ye poillary fringe)	Imagery (B7 e Surface (E es X es X es X	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Irc Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat Depth (i Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) Remarks) nches): nches): nches):) Living Ro C4) Illed Soils 2 0 0	Sur Dra Dry Cra Sots (C3) Sat X Stu S (C6) X FAC Wetland Hydrole	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Wetland Hyderimary Indice X Surface X High Wa X Saturatic Water M Sedimen Drift Dep X Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Water Table Saturation P (includes cap Describe Received)	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aerial If of Vegetated Concave vations: er Present? Present? Ye resent? Ye poillary fringe)	Imagery (B7 e Surface (E es X es X es X	red; check all that Water-Sta Aquatic Fa True Aqua X Hydrogen Oxidized Fa Presence Recent Irc Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat Depth (i Depth (i	oves (B9) 3) s (B14) Ddor (C1 eres on led Iron et (C7) a (D9) Remarks) nches): nches): nches):) Living Ro C4) Illed Soils 2 0 0	Sur Dra Dry Cra Sots (C3) Sat X Stu S (C6) X FAC Wetland Hydrole	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022						
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-17						
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A						
Landform (hillside, terrace, etc.): Flat	Local relief (concave, convex, none): None						
Slope (%): 0-5 Lat: 38.734815	Long: -90.509192 Datum: NAD 83						
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occas	sionally flooded NWI classification: Upland						
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No_X (If no, explain in Remarks.)						
Are Vegetation X , Soil X , or Hydrology significantly distu	urbed? Are "Normal Circumstances" present? Yes No X						
Are Vegetation, Soil, or Hydrology naturally problem							
 -	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							
Remarks: The sample point was taken in a sovhean field about 3 foot higher in e	elevation than SP-16/WTL-9 and serves as the exclusionary upland point.						
Conditions were wetter than normal. Upland.	gevation than or-10/44 it-5 and serves as the exclusionary upland point.						
VEGETATION – Use scientific names of plants.							
	Ominant Indicator Species? Status Dominance Test worksheet:						
Tree Stratum (Plot size:)	Species? Status Dominance Test worksheet: Number of Dominant Species That						
2.	Are OBL, FACW, or FAC: (A)						
3.	Total Number of Dominant Species						
4.	Across All Strata: (B)						
5	Percent of Dominant Species That						
	otal Cover Are OBL, FACW, or FAC: (A/B)						
Sapling/Shrub Stratum (Plot size:)	Prevalence Index worksheet:						
2.	Total % Cover of: Multiply by:						
3.	OBL species x 1 =						
4.	FACW species x 2 =						
5.	FAC species x 3 =						
=To	otal Cover FACU species x 4 =						
Herb Stratum (Plot size:)	UPL species x 5 =						
1	Column Totals: (A) (B)						
2.	Prevalence Index = B/A =						
3.							
4.	Hydrophytic Vegetation Indicators:						
5	1 - Rapid Test for Hydrophytic Vegetation						
6	2 - Dominance Test is >50%						
7	3 - Prevalence Index is ≤3.0 ¹						
8	4 - Morphological Adaptations ¹ (Provide supporting						
9	data in Remarks or on a separate sheet)						
10	X_Problematic Hydrophytic Vegetation ¹ (Explain)						
Woody Vine Stratum (Plot size:)	otal Cover Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1.							
2.	Hydrophytic Vegetation						
	otal Cover Present? Yes No X						
	<u> </u>						
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation is disturbed as the sample point was taken in a soybea	an field and thus is problematic.						

		-				ator or o	confirm the absence	of indicators.)	
Depth	Matr			ox Featu						
(inches)	Color (moist) % _	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0-16	2.5Y 5/3	100					Loamy/Clayey			
							1			
1Type: C=C	oncentration, D=I	Dopletion PM-I	Poducod Matrix	MS=Moo	kod Son		² l coatio	n: PL=Pore Lir	aina M-Matrix	,
Hydric Soil		Depletion, Kivi-i	Reduced Matrix,	IVIO-IVIAS	keu San	Giailis		ors for Probler		•
Histosol			Sandy Gle	eved Mat	rix (S4)			ist Prairie Redo	-	
	oipedon (A2)		Sandy Re	-				-Manganese M		
Black Hi			Stripped N					Parent Materia		
	n Sulfide (A4)		Dark Surf	•	,			y Shallow Dark	. ,)
Stratified	d Layers (A5)		Loamy Mu	ucky Min	eral (F1)			er (Explain in R		
2 cm Mu	ıck (A10)		Loamy GI	eyed Ma	trix (F2)					
Depleted	d Below Dark Sur	face (A11)	Depleted	Matrix (F	3)					
Thick Da	ark Surface (A12)		Redox Da	ırk Surfa	ce (F6)		³ Indicate	ors of hydrophy	tic vegetation	and
Sandy M	lucky Mineral (S1)	Depleted	Dark Su	face (F7)	ı	wet	and hydrology	must be prese	ent,
5 cm Mu	icky Peat or Peat	(S3)	Redox De	pression	ıs (F8)		unle	ess disturbed or	problematic.	
Restrictive	Layer (if observe	ed):								
Type:										
Depth (ir	nches):						Hydric Soil Presei	nt?	Yes	No X
Remarks:										
Soils were d	isturbed as the sa	ample point was	s taken in a soybe	ean field.						
HYDROLO	OGY									
	drology Indicate	ors:								
_	cators (minimum		ed: check all that	apply)			Seconda	ary Indicators (i	minimum of tw	o required)
	Water (A1)	<u> </u>	Water-Sta		aves (B9)			face Soil Crack		<u> </u>
High Wa	ater Table (A2)		Aquatic F					inage Patterns		
Saturation	on (A3)		True Aqua	atic Plan	ts (B14)		Dry-	-Season Water	Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide	Odor (C1)	Cra	yfish Burrows (C8)	
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosph	neres on I	_iving R	oots (C3) Sati	uration Visible o	on Aerial Imag	ery (C9)
	oosits (B3)		Presence					nted or Stresse	, ,	
	at or Crust (B4)		Recent Iro			lled Soil		morphic Positi		
	oosits (B5)		Thin Mucl				FAC	C-Neutral Test (D5)	
	on Visible on Aer									
	/ Vegetated Cond	ave Surrace (B	8) Other (Ex	piain in F	remarks)		1			
Field Obser		V	N- V	D = = 41= /	:\.					
Surface Wat		Yes	No X		inches): _					
Water Table Saturation P		Yes Yes	No X No X	Depth (Depth (Wetland Hydrolo	nav Procent?	Yes	No X
	pillary fringe)		<u> </u>	Deptii (vvetiana nyarok	ogy i resent:		<u> </u>
		eam gauge, mor	nitoring well, aeria	al photos	. previou	s inspec	tions), if available:			
	- 3 2 (0110	gaago, moi		p110100	, p. 0 + 10 u	opoc	, aranabio.			
Remarks:										

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

oject/Site: NorthPoint Development	City/County: Maryland Heights /	St. Louis Sampling Date: 8/18/	2022
oplicant/Owner: NorthPoint Development, LLC	State	:MO Sampling Point:SI	P-18
vestigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A		
ndform (hillside, terrace, etc.): Flat	Local relief (concave, cor	ivex, none): None	
ope (%):0-5 Lat: <u>38.732686</u>	Long: <u>-90.510883</u>	Datum: NAD 83	
oil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occ	asionally flooded	NWI classification: Upland	
e climatic / hydrologic conditions on the site typical for this time of	ear? Yes No_X	(If no, explain in Remarks.)	
e Vegetation, Soil, or Hydrologysignificantly dis	turbed? Are "Normal Circumstance	es" present? Yes No _X	_
e Vegetation, Soil, or Hydrologynaturally proble	matic? (If needed, explain any an	swers in Remarks.)	
UMMARY OF FINDINGS – Attach site map showing	sampling point locations, t	ransects, important features,	, etc.
lydrophytic Vegetation Present? Yes No X	Is the Sampled Area		
lydric Soil Present? Yes No X	within a Wetland?	Yes NoX_	
Vetland Hydrology Present? Yes No X			
Remarks:	on their respect tilliand		
he sample point was taken in a soybean field. Conditions were we	er than normal. Opland.		
ECETATION Lies scientific names of plants			
EGETATION – Use scientific names of plants. Absolute	Dominant Indicator		
		nce Test worksheet:	
:		of Dominant Species That FACW, or FAC:	(A)
		mber of Dominant Species	- ` ′
·	Across Al	ll Strata:	(B)
·		of Dominant Species That	
	otal Cover Are OBL,	FACW, or FAC:	(A/B)
eapling/Shrub Stratum (Plot size:)	Provalen	ce Index worksheet:	
·		Il % Cover of: Multiply by:	
	OBL spec		-
·	FACW sp	pecies x 2 =	_
·	FAC spec	cies x 3 =	_
	· · ·	ecies x 4 =	_
lerb Stratum (Plot size:)	UPL spec		-
·	Column T		_(B)
·	Preval	ence Index = B/A =	-
·	Hydroph	ytic Vegetation Indicators:	
` <u></u>		•	
·		, , , , , , , , , , , , , , , , , , , ,	
·			norting
		ta in Remarks or on a separate sheet)	
	Probl	ematic Hydrophytic Vegetation ¹ (Expla	ain)
		, , , , , , , ,	•
Voody Vine Stratum (Plot size:)		nt, unless disturbed or problematic.	
·	Hydroph	-	
	Vegetatio		
<u></u> -	otal Cover Present?	Yes No X	
Voody Vine Stratum (Plot size:) .	1 - Ri 2 - Di 3 - Pi 4 - M da Probl otal Cover Hydroph Vegetatic Present?	apid Test for Hydrophytic Vegetation ominance Test is >50% revalence Index is ≤3.0¹ orphological Adaptations¹ (Provide s ta in Remarks or on a separate sheelematic Hydrophytic Vegetation¹ (Express of hydric soil and wetland hydrologot, unless disturbed or problematic. ytic	up et)

Profile Des	cription: (Describe Matrix	e to the depth		ument t x Featur		tor or c	confirm the absenc	e of indicators	.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 3/2	100					Loamy/Clayey			
	10111 3/2						Loamyrolaycy	_		
	-									
	· -									
-								_		
								_		
¹ Type: C=C	concentration, D=De	nletion RM=R	educed Matrix M	AS=Mas	ked Sand	Grains	² l ocatio	on: PL=Pore Li	ning M=Matrix	
Hydric Soil		piction, ravi	caacca Matrix, 1	710 11100	itea Garie	Ciano		ors for Probler		
Histosol			Sandy Gle	ved Mat	rix (S4)			ast Prairie Redo		
	pipedon (A2)		Sandy Red	-				n-Manganese M		
	istic (A3)		Stripped M					d Parent Materia		
	en Sulfide (A4)		Dark Surfa	,	-,			ry Shallow Dark	. ,	ı
_ ` `	d Layers (A5)		Loamy Mu		eral (F1)			ner (Explain in F	, ,	
	uck (A10)		Loamy Gle	-					,	
	d Below Dark Surfa	ce (A11)	Depleted N							
Thick Da	ark Surface (A12)	,	Redox Dai	k Surfac	e (F6)		³ Indicat	tors of hydrophy	tic vegetation	and
Sandy N	Mucky Mineral (S1)		Depleted [Dark Sur	face (F7)		we	tland hydrology	must be prese	ent,
5 cm Mu	ucky Peat or Peat (S	33)	Redox De	oression	s (F8)		unl	ess disturbed o	problematic.	
Restrictive	Layer (if observed):	<u> </u>							
Type:	• (•								
Depth (i	nches):		_				Hydric Soil Prese	ent?	Yes	No X
Remarks:										
	ere disturbed as the	sample point v	was taken in a so	ybean f	ield.					
				•						
HYDROLO	OGY									
Wetland Hy	drology Indicators	:								
Primary Indi	icators (minimum of	one is require	d; check all that	apply)				<u>lary Indicators (</u>		o required)
	Water (A1)		Water-Sta		, ,			rface Soil Crack	. ,	
	ater Table (A2)		Aquatic Fa	,	•			ainage Patterns		
Saturation	, ,		True Aqua		, ,			/-Season Water		
	Marks (B1)		Hydrogen					ayfish Burrows (•	(00)
	nt Deposits (B2)		Oxidized F			-		turation Visible	_	ery (C9)
	posits (B3)		Presence			,		inted or Stresse	, ,	
	at or Crust (B4)		Recent Iro			ilea Soii		omorphic Positi		
	oosits (B5)	Imagany (P7)	Thin Muck				<u> </u>	C-Neutral Test	(05)	
	on Visible on Aerial y Vegetated Concav	• • • •	Gauge or '		, ,					
_		e Suriace (Bo) Other (Exp	naiii iii r	(emarks)					
Field Obser		' 00	No. V	Donth (nahaa\.					
		es	No X	Depth (i						
Water Table Saturation F		'es			nches):		Wetland Hydrol	logy Procent?	Yes	No V
	pillary fringe)	es	NO X	Depth (i			Wetland Hydrol	ogy Fresent:	163	No X
_,	ecorded Data (strea	m gauge moni	toring well agric	Inhotos	previous	e inenec	tions) if available:			
Pescine Ke	corucu Data (Sifeat	ıı yauye, mom	tornig well, aella	i priotos	, previous	э шэрес	alono), ii avallable.			
Remarks:										
1										

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-19
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Flat	Local relief (concave, convex, none): None
Slope (%): 0-5 Lat: 38.731485	Long: -90.508639 Datum: NAD 83
Soil Map Unit Name: SansDessein silty clay, 0 to 2 percent slopes, oc	casionaly flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly dist	
Are Vegetation , Soil , or Hydrology naturally probler	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sampled Area within a Wetland? Yes No_X_
Remarks: The sample point was taken in a corn field. Conditions were wetter the	an normal. Upland.
VEGETATION – Use scientific names of plants.	
	Ominant Indicator Species? 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)
5.	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x1 =
	FACW species x 2 =
5	FAC species x 3 =
	tal Cover FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 = (A)
1	Column Totals: (A) (B) Prevalence Index = B/A =
3	Trevalence index - D/A -
4.	Hydrophytic Vegetation Indicators:
5	1 - Rapid Test for Hydrophytic Vegetation
6.	2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8.	4 - Morphological Adaptations ¹ (Provide supporting
9.	data in Remarks or on a separate sheet)
10.	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	otal Cover Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	Hydrophytic
2.	Vegetation
=TC	otal Cover Present? Yes No X
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation is disturbed as the sample point was taken in a corn fi	eld.

Profile Desc Depth	ription: (Descri Matri	-		ument tox Featur		ator or c	onfirm the absenc	ce of indicators.)	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	S
0-16	10YR 3/1	100					Loamy/Clayey		-
0 10	101110/1						Loaniyrolaycy		
							-	_	
-									
¹ Type: C=Cc	oncentration, D=[Depletion, RM	=Reduced Matrix, I	MS=Mas	ked Sand	d Grains.	² Locati	ion: PL=Pore Lining, M=Ma	atrix.
Hydric Soil I	ndicators:	•						tors for Problematic Hydr	•
Histosol ((A1)		Sandy Gle	eyed Mat	rix (S4)		Co	oast Prairie Redox (A16)	
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			Iro	on-Manganese Masses (F12	2)
Black His	stic (A3)		Stripped N	/latrix (S	6)		Re	ed Parent Material (F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Ve	ery Shallow Dark Surface (F	22)
	Layers (A5)		Loamy Mu	ıcky Min	eral (F1)		Ot	ther (Explain in Remarks)	
2 cm Mud	, ,		Loamy Gle						
	Below Dark Surf	ace (A11)	Depleted I	,	•		2		
	rk Surface (A12)		Redox Da					ators of hydrophytic vegetat	
	ucky Mineral (S1	•	Depleted I					etland hydrology must be pr	
5 cm Mud	cky Peat or Peat	(83)	Redox De	pression	s (F8)		un	nless disturbed or problema	tic.
	_ayer (if observe	d):							
Type:									
Depth (in	iches):						Hydric Soil Pres	ent? Yes	NoX
LIVEROL O	0.7								
HYDROLO									
-	drology Indicato		irod: chook all that	annly)			Sacan	dary Indicators (minimum c	of two requires
-	vater (A1)	one is requ	ired; check all that Water-Sta		wos (P0)			<u>dary Indicators (minimum c</u> urface Soil Cracks (B6)	or two required
	ter Table (A2)		Aquatic Fa					rainage Patterns (B10)	
Saturatio			True Aqua	,	,			y-Season Water Table (C2)
Water Ma			Hydrogen		, ,)		ayfish Burrows (C8)	,
	t Deposits (B2)		Oxidized F					aturation Visible on Aerial Ir	magery (C9)
	osits (B3)		Presence	of Redu	ced Iron ((C4)		unted or Stressed Plants (D	
Algal Mat	t or Crust (B4)		Recent Iro	n Reduc	ction in Ti	lled Soils	s (C6) Ge	eomorphic Position (D2)	
Iron Depo	osits (B5)		Thin Muck	Surface	e (C7)		FA	AC-Neutral Test (D5)	
Inundatio	n Visible on Aeri	al Imagery (B	7) Gauge or	Well Da	ta (D9)				
Sparsely	Vegetated Conc	ave Surface (l	38) Other (Exp	olain in F	Remarks)				
Field Observ	vations:								
Surface Water	er Present?	Yes	No X	Depth (inches):				
Water Table	Present?	Yes	No X		inches):				
Saturation Pr	resent?	Yes	No <u>X</u>	Depth (inches):		Wetland Hydro	ology Present? Yes	No_X
(includes cap									
Describe Red	corded Data (stre	am gauge, m	onitoring well, aeria	al photos	, previous	s inspec	tions), if available:		
Domailie									
Remarks:									

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/18/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-20
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Flat	Local relief (concave, convex, none): None
Slope (%): <u>0-5</u> Lat: <u>38.733833</u>	Long: <u>-90.505571</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, occa	sionally flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly distr	urbed? Are "Normal Circumstances" present? Yes No _X
Are Vegetation, Soil, or Hydrology naturally problem	
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	
Remarks:	
The sample point was taken in a soybean field. Conditions were wetter	er than normal. Upland.
NEGETATION III : "" (1)	
VEGETATION – Use scientific names of plants. Absolute D	lominant Indicator I
	Ominant Indicator Species? Status Dominance Test worksheet:
1	Number of Dominant Species That
2	Are OBL, FACW, or FAC:(A)
3	Total Number of Dominant Species
4	Across All Strata: (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x1 =
5	FACW species x 2 = FAC species x 3 =
=Tc	otal Cover FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1	Column Totals: (A) (B)
2.	Prevalence Index = B/A =
3	Lindranh, die Verentetien Indicatore
	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
6.	2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8.	4 - Morphological Adaptations ¹ (Provide supporting
9	data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	otal Cover Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	Hydrophytic
2.	Nydrophytic
=Tc	otal Cover Present? Yes No X
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation was disturbed as the sample point was taken in a soyl	bean field.

Profile Desc Depth	cription: (Describe Matrix	to the depth		ument tox Featur		tor or c	confirm the abser	nce of indicators	5.)	
(inches)	Color (moist)	%	Color (moist)	% %	Type ¹	Loc ²	Texture		Remarks	
0-16	10YR 3/2	100	Color (molec)		1)00		Loamy/Clayey		rtomanto	
	10113/2	100		·			Loamy/Claye	<u>/</u>		
				·						
								<u> </u>		
1Type: C=C	oncentration, D=Dep	letion RM=R	Peduced Matrix	MS=Mas	ked Sand		² l oca	ation: PL=Pore Li	ining M=Matri	<u> </u>
Hydric Soil		iction, raw i	teduced Wattix,	IVIO IVIGO	ica Gari	Ciano		ators for Proble		
Histosol			Sandy Gle	eved Mat	rix (S4)			Coast Prairie Red		
	pipedon (A2)		Sandy Re	-				ron-Manganese N		
Black Hi	. , ,		Stripped N					Red Parent Materi		
	n Sulfide (A4)		Dark Surfa	,	,			ery Shallow Dark	, ,)
Stratified	Layers (A5)		Loamy Mu	ucky Min	eral (F1)		—	other (Explain in F	Remarks)	,
2 cm Mu	ck (A10)		Loamy Gl	eyed Ma	trix (F2)					
Depleted	l Below Dark Surface	e (A11)	Depleted	Matrix (F	3)					
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	ce (F6)		³ Indio	cators of hydrophy	ytic vegetation	and
Sandy M	lucky Mineral (S1)		Depleted	Dark Sur	face (F7)		V	vetland hydrology	must be prese	ent,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pression	s (F8)		ι	ınless disturbed c	or problematic.	
Restrictive	Layer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Pre	sent?	Yes	No X
HYDROLC	GY									
Wetland Hy	drology Indicators:									
1	cators (minimum of c	ne is require	d: check all that	apply)			Seco	ndary Indicators	(minimum of tv	vo required)
	Water (A1)		Water-Sta		ives (B9)			Surface Soil Crack	•	
High Wa	ter Table (A2)		Aquatic F	auna (B1	3)			Drainage Patterns	(B10)	
Saturation	on (A3)		True Aqua	atic Plant	s (B14)			Ory-Season Wate	r Table (C2)	
Water M	arks (B1)		Hydrogen	Sulfide (Odor (C1)	<u> </u>	Crayfish Burrows	(C8)	
	t Deposits (B2)		Oxidized I	Rhizosph	eres on l	_iving Ro	oots (C3)	Saturation Visible	on Aerial Imag	gery (C9)
	oosits (B3)		Presence			. ,		Stunted or Stresse		
	t or Crust (B4)		Recent Iro			lled Soil		Geomorphic Posit		
	osits (B5)		Thin Muck				F	FAC-Neutral Test	(D5)	
	on Visible on Aerial I	0 , (,	Gauge or		, ,					
	Vegetated Concave	Surface (B8) Other (Ex	plain in F	Remarks)		•			
Field Obser			N V	5						
Surface Wat			No X		nches): _					
Water Table		s	No X No X		nches):		Watland Hydr	rology Procent?	Voc	No V
Saturation P (includes car		·	NO	Depth (i	ilches).		welland Hydi	rology Present?	Yes	No X
· ·	corded Data (stream	gauge mon	itoring well aeris	al nhotos	previous	s inspec	tions) if available			
Besonbe re	coraca Data (otream	gaage, mon	itoring wen, dent	ai priotos	, proviou	з шорсо	atorio), ii avaliabio	•		
Remarks:										

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Slope (%):	Pe, convex, none): None Datum: NAD 83 NWI classification: Upland X (If no, explain in Remarks.) stances" present? Yes No X any answers in Remarks.)
Landform (hillside, terrace, etc.): Flat	pe, convex, none): None Datum: NAD 83 NWI classification: Upland X (If no, explain in Remarks.) stances" present? Yes No X any answers in Remarks.) ons, transects, important features, etc. Yes No X minance Test worksheet: mber of Dominant Species That
Slope (%):	Datum: NAD 83 NWI classification: Upland X (If no, explain in Remarks.) stances" present? Yes No X any answers in Remarks.) stancests, important features, etc. Yes No X minance Test worksheet: mber of Dominant Species That
Soil Map Unit Name: SansDessein silty clay, 0 to 2 percent slopes, occasionally flooded Are climatic / hydrologic conditions on the site typical for this time of year? Yes No Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circum Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain a SUMMARY OF FINDINGS – Attach site map showing sampling point location Hydrophytic Vegetation Present? Yes No X within a Wetland? Hydrophytic Vegetation Present? Yes No X within a Wetland? Wetland Hydrology Present? Yes No X within a Wetland? Remarks: The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION – Use scientific names of plants. Pree Stratum (Plot size:)	NWI classification: Upland X (If no, explain in Remarks.) stances" present? Yes No _X any answers in Remarks.) ons, transects, important features, etc. Yes No _X minance Test worksheet: mber of Dominant Species That
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circum Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain a SUMMARY OF FINDINGS – Attach site map showing sampling point location Hydrophytic Vegetation Present? Yes No _X	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circum Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain a SUMMARY OF FINDINGS – Attach site map showing sampling point location	stances" present? Yes No _X any answers in Remarks.) Ins, transects, important features, etc. Yes No _X minance Test worksheet: mber of Dominant Species That
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain a SUMMARY OF FINDINGS – Attach site map showing sampling point location Hydrophytic Vegetation Present? Yes No X Is the Sampled Area Hydric Soil Present? Yes No X within a Wetland? Wetland Hydrology Present? Yes No X Wetland Hydrology Present? Yes No X Wetland Hydrology Present? Yes No X Within a Wetland? Remarks: The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION – Use scientific names of plants. Dominant Indicator	yes No X minance Test worksheet: mber of Dominant Species That
SUMMARY OF FINDINGS – Attach site map showing sampling point location Hydrophytic Vegetation Present? Yes	Yes No _X
Hydrophytic Vegetation Present? Yes No X Within a Wetland? Wetland Hydrology Present? Yes No X Remarks: The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION — Use scientific names of plants. Tree Stratum (Plot size:) Absolute Dominant Indicator Species? Status Doi 1. 2. Assolute Dominant Indicator Species? Status Are 3. 4. Are 3. 4. For a sample point was taken in a corn field. Conditions were wetter than normal. Upland.	Yes No _X minance Test worksheet: mber of Dominant Species That
Hydric Soil Present? Yes No X within a Wetland? Wetland Hydrology Present? Yes No X Remarks: The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION — Use scientific names of plants. Tree Stratum (Plot size:) Absolute Dominant Indicator Species? Status Doi Nur Are 3. 1.	minance Test worksheet: mber of Dominant Species That
Wetland Hydrology Present? Yes No X Remarks: The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION — Use scientific names of plants. Tree Stratum (Plot size:)	minance Test worksheet: mber of Dominant Species That
Remarks: The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION — Use scientific names of plants. Tree Stratum (Plot size:)	mber of Dominant Species That
The sample point was taken in a corn field. Conditions were wetter than normal. Upland. VEGETATION — Use scientific names of plants. Tree Stratum (Plot size:)	mber of Dominant Species That
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size:) Absolute % Cover Species? Dominant Status Indicator Status Dominant Status Dominant Species? Status Dominant Status Dominant Species? Dominant Status Dominant	mber of Dominant Species That
Absolute Dominant Indicator Species? Status Dominant Species? Status Dominant Are Species? Status Statu	mber of Dominant Species That
Absolute Dominant Indicator Species? Status Dominant Species? Status Dominant Are Species? Status Statu	mber of Dominant Species That
1.	mber of Dominant Species That
2.	•
4	
5 =Total Cover	al Number of Dominant Species oss All Strata: (B)
=Total Cover	recent of Dominant Species That
1 Pre OB	OBL, FACW, or FAC: (A/B)
2	
	evalence Index worksheet:
	Total % Cover of: Multiply by: L species x 1 =
"	L species x 1 = CW species x 2 =
	C species x 3 =
	CU species x 4 =
Herb Stratum (Plot size: UP	L species x 5 =
1 Col	umn Totals: (A) (B)
2 F	Prevalence Index = B/A =
3	
^{4.} Hyd	drophytic Vegetation Indicators:
<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
<u> </u>	2 - Dominance Test is >50%
7	3 - Prevalence Index is ≤3.0 ¹
8	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
10.	Problematic Hydrophytic Vegetation ¹ (Explain)
	1 Toblematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:) be	licators of hydric soil and wotland hydrology must
l •	dicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
	present, unless disturbed or problematic.
Remarks: (Include photo numbers here or on a separate sheet.)	present, unless disturbed or problematic.

Profile Desc Depth	ription: (Descri	-		ument tox Featur		tor or c	onfirm the absend	ce of indicators.)	
(inches)	Color (moist		Color (moist)	%	Type ¹	Loc ²	Texture	Remark	(S
0-16	10YR 3/2	100			-71		Loamy/Clayey		
	10111 0/2						Loanty/olayey		
	-							_	
	-							_	
-							(<u> </u>		
							1		
¹Type: C=Cc	oncentration D=I	Depletion RM	=Reduced Matrix, I	MS=Mas	ked Sand	Grains	² l ocati	ion: PL=Pore Lining, M=M	1atrix
Hydric Soil I		- opiotion, i tili	Trouble Tribution,		ntou ount	<u> </u>		tors for Problematic Hyd	
Histosol (Sandy Gle	eyed Mat	trix (S4)		Co	past Prairie Redox (A16)	
	ipedon (A2)		Sandy Re	-				on-Manganese Masses (F1	12)
Black His	stic (A3)		Stripped N	/latrix (S	6)			ed Parent Material (F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Ve	ery Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Min	eral (F1)		Ot	ther (Explain in Remarks)	
2 cm Mud	ck (A10)		Loamy Gl	eyed Ma	trix (F2)				
Depleted	Below Dark Sur	face (A11)	Depleted	Matrix (F	3)				
Thick Da	rk Surface (A12)		Redox Da	rk Surfa	ce (F6)		³ Indica	ators of hydrophytic vegeta	ition and
Sandy M	ucky Mineral (S1)	Depleted	Dark Sui	face (F7)		we	etland hydrology must be p	resent,
5 cm Mud	cky Peat or Peat	(S3)	Redox De	pression	ıs (F8)		un	nless disturbed or problema	atic.
Restrictive L	ayer (if observe	ed):							
Type:									
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No_X
									
HYDROLO									
-	drology Indicato			(، با سسم			C	dam da dia atawa (mainima da da	- f h
•		of one is requ	ired; check all that		(DO)			dary Indicators (minimum	of two required
	Water (A1) ter Table (A2)		Water-Sta Aquatic Fa		, ,			urface Soil Cracks (B6) rainage Patterns (B10)	
Saturatio			True Aqua	•	,			ry-Season Water Table (C	2)
Water Ma			Hydrogen					rayfish Burrows (C8)	-)
	t Deposits (B2)		Oxidized F					aturation Visible on Aerial I	magery (C9)
	osits (B3)		Presence	•		•		unted or Stressed Plants (
Algal Mat	t or Crust (B4)		Recent Iro	n Reduc	ction in Ti	led Soils	G (C6) G	eomorphic Position (D2)	•
Iron Depo	osits (B5)		Thin Muck	Surface	e (C7)		FA	AC-Neutral Test (D5)	
Inundatio	on Visible on Aeri	ial Imagery (B	7) Gauge or	Well Da	ta (D9)				
Sparsely	Vegetated Cond	ave Surface (l	B8) Other (Ex	plain in F	Remarks)				
Field Observ	vations:								
Surface Water	er Present?	Yes	No X	Depth (inches): _				
Water Table	Present?	Yes	No X	Depth (inches):				
Saturation Pr	esent?	Yes	No X	Depth (inches): _		Wetland Hydro	ology Present? Yes	No_X
(includes cap									
Describe Red	corded Data (stre	eam gauge, m	onitoring well, aeria	al photos	, previous	s inspect	ions), if available:		
Damarica									
Remarks:									

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/19/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-22
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave
Slope (%): 0-5 Lat: 38.737431	Long: -90.503604 Datum: NAD 83
Soil Map Unit Name: Sarpy fine sand, 0 to 2 percent slopes, occasional	ally flooded NWI classification: PEM1Ad
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly distr	
Are Vegetation, Soil, or Hydrologynaturally probler	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	
Remarks:	
	ne area appeared to be inundated with water seasonally as the area was mostly
void of vegetation with some stunted soybean plants. Conditions were	e wetter than normal. WTL-1.
VEGETATION – Use scientific names of plants.	
	pominant Indicator Species? Status Dominance Test worksheet:
1.	Number of Dominant Species That
2.	Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species
4	(B)
5	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	Ale ODE, I ACW, OI I AC.
1.	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FAC species x 3 = FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1.	Column Totals: (A) (B)
2.	Prevalence Index = B/A =
3.	
4	Hydrophytic Vegetation Indicators:
5	1 - Rapid Test for Hydrophytic Vegetation
6	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
8.	4 - Morphological Adaptations ¹ (Provide supporting
9.	data in Remarks or on a separate sheet)
10	X Problematic Hydrophytic Vegetation ¹ (Explain)
	otal Cover ¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	be present, unless disturbed or problematic.
1	Hydrophytic
	Vegetation tal Cover Present? Yes No
Remarks: (Include photo numbers here or on a separate sheet.)	
The vegetation was disturbed as the sample point was taken in a soyl	pean field and thus is problematic.

Profile Desc Depth	ription: (Desci	-		ument t x Featu		ator or c	onfirm the absence	of indicators.)
(inches)	Color (mois		Color (moist)	% " Cata	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/1	87	10YR 3/6	3	C	PL/M	Loamy/Clayey	Prominent redox concentrations
0-10	1011(3/1		1011(3/0			I L/IVI	Loamy/Clayey	
								Also has 10YR 5/1, 10%, D, M
	-							
¹ Type: C=Co	ncentration. D=	Depletion, RM:	=Reduced Matrix, I	MS=Mas	ked Sand	Grains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I		•	· ·					rs for Problematic Hydric Soils ³ :
Histosol ((A1)		Sandy Gle	eyed Mat	rix (S4)		Coas	t Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			Iron-l	Manganese Masses (F12)
Black His	stic (A3)		Stripped N	/latrix (S	6)		Red	Parent Material (F21)
Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Μι	icky Min	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Ma	trix (F2)			
	Below Dark Su	, ,	Depleted I	Matrix (F	3)			
Thick Da	rk Surface (A12)	X Redox Da	rk Surfac	ce (F6)		³ Indicator	s of hydrophytic vegetation and
	ucky Mineral (S	,	X Depleted I	Dark Sur	face (F7))		nd hydrology must be present,
5 cm Mu	cky Peat or Pea	t (S3)	Redox De	pression	s (F8)		unles	ss disturbed or problematic.
Restrictive L	.ayer (if observ	ed):						
Type:								
Depth (in	ches):						Hydric Soil Present	t? Yes <u>X</u> No
HYDROLO								
_	drology Indicate		ired: cheek all that	annly)			Socondo	ny Indiantora (minimum of two required
-	Nater (A1)	or one is requi	red; check all that Water-Sta		wos (B0)			ry Indicators (minimum of two required ace Soil Cracks (B6)
	ter Table (A2)		Aquatic Fa					nage Patterns (B10)
Saturatio			True Aqua	•				Season Water Table (C2)
Water Ma			Hydrogen		, ,)		fish Burrows (C8)
	t Deposits (B2)		Oxidized F					ration Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Presence	of Redu	ced Iron ((C4)		ted or Stressed Plants (D1)
X Algal Ma	t or Crust (B4)		Recent Iro	n Reduc	ction in Ti	lled Soils	s (C6) X Geor	norphic Position (D2)
X Iron Depo	osits (B5)		Thin Muck	Surface	e (C7)		FAC-	Neutral Test (D5)
X Inundation	n Visible on Aer	ial Imagery (B	7) Gauge or	Well Dat	ta (D9)			
Sparsely	Vegetated Cond	cave Surface (E	38) Other (Exp	olain in F	Remarks)			
Field Observ	/ations:							
Surface Water	er Present?	Yes	No X	Depth (i	inches):_			
Water Table		Yes	No X	Depth (i				
Saturation Pr		Yes	No <u>X</u>	Depth (i	inches):_		Wetland Hydrolog	gy Present? YesX No
(includes cap								
Describe Red	corded Data (str	eam gauge, mo	onitoring well, aeria	ai photos	, previou	s inspec	tions), if available:	
Remarks:								
. tomanto.								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/19/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-23
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Slight hillslope	Local relief (concave, convex, none): None
Slope (%): <u>5-10</u> Lat: <u>38.737189</u>	Long: -90.503585 Datum: NAD 83
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percent slopes, oc	casionally flooded NWI classification: PEM1Ad
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology significantly di	sturbed? Are "Normal Circumstances" present? Yes No _X_
Are Vegetation, Soil, or Hydrologynaturally probl	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g 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	
Remarks: The sample point was taken in a soybean field several feet higher in	n elevation to SP-22/WTL-1 and serves as the exclusionary upland point.
Conditions were wetter than normal. Upland.	1 Storation to St. 227772 Fund Solves do the Solvestonary apiana point.
VEGETATION – Use scientific names of plants.	
Absolute Tree Stratum (Plot size:) % Cover	Dominant Indicator Species? Status Dominance Test worksheet:
1	Number of Dominant Species That
3	Are OBL, FACW, or FAC: (A) Total Number of Dominant Species
4.	Across All Strata: (B)
5	Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:)	Total Cover Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3.	OBL species x 1 =
4	FACW species x 2 =
5	FAC species x 3 =
	Total Cover FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1	Column Totals: (A) (B)
2	Prevalence Index = B/A =
4	Hydrophytic Vegetation Indicators:
5	1 - Rapid Test for Hydrophytic Vegetation
6.	2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8.	4 - Morphological Adaptations ¹ (Provide supporting
9.	data in Remarks or on a separate sheet)
10.	Problematic Hydrophytic Vegetation ¹ (Explain)
=	Total Cover Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	be present, unless disturbed or problematic.
1	Hydrophytic
2	Vegetation Total Cover Present? Yes No _ X

						ator or o	confirm the absence	of indicators.)
Depth	Matrix			x Featu		12	T . (D. v. d.
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type	Loc ²	Texture	Remarks
0-14	10YR 3/1		10YR 5/1	12	<u>D</u>	M	Loamy/Clayey	
14-16	10YR 4/2	99	10YR 3/6	1	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
	-							
1- 0.0					. —		2	
	oncentration, D=D	epletion, RM=	Reduced Matrix,	VIS=Mas	ked Sand	Grains		n: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
Hydric Soil			Sandy Cla	wod Mat	riv (C1)			•
Histosol			Sandy Gle	-				st Prairie Redox (A16)
	oipedon (A2) istic (A3)		Sandy Re Stripped M					Manganese Masses (F12) Parent Material (F21)
	. ,		Dark Surfa	,	5)			, ,
	en Sulfide (A4)				oral (E1)			Shallow Dark Surface (F22)
	d Layers (A5) uck (A10)		Loamy Mu	-				r (Explain in Remarks)
	d Below Dark Surf	aco (A11)	Loamy Gl					
· ·	ark Surface (A12)	ace (ATT)	Redox Da	,	,		³ Indicato	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		X Depleted					and hydrology must be present,
ı —	icky Peat or Peat		Redox De		, ,			ss disturbed or problematic.
		,		proceion	0 (1 0)	Т	dillo	se dictarsed of presidentatio.
	Layer (if observe	u):						
Type: Depth (i	nohoo):		_				Hydric Soil Presen	t? Yes X No
Remarks:			_				Tiyunc 3011 Fresen	t? Yes <u>X</u> No
HYDROLO	OGY							
Wetland Hy	drology Indicato	s:						
Primary Indi	cators (minimum o	of one is requir	ed; check all that	apply)			<u>Seconda</u>	ry Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Lea	aves (B9)		Surfa	ace Soil Cracks (B6)
	ater Table (A2)		Aquatic F	,	,			nage Patterns (B10)
Saturation	on (A3)		True Aqua		, ,			Season Water Table (C2)
	larks (B1)		Hydrogen					fish Burrows (C8)
	nt Deposits (B2)		Oxidized I			-		ration Visible on Aerial Imagery (C9)
	posits (B3)		Presence			,		ted or Stressed Plants (D1)
	at or Crust (B4)		Recent Iro			lled Soil		morphic Position (D2)
	posits (B5)	/5-7	Thin Muck				FAC	-Neutral Test (D5)
	on Visible on Aeria	• • •			. ,			
	Vegetated Conca	ive Suriace (B	8) Other (Ex	piain in F	kemarks)		1	
Field Obser		V.	NI. V	D //				
		Yes	No X		nches):_			
Water Table		Yes	No X	Depth (i	· -		Wetlend Hudrele	my Brasant2 Van Na V
Saturation F		Yes	No <u>X</u>	Depth (i	nches)		Wetland Hydrolo	gy Present? Yes No X
	pillary fringe)	am dalide mo	nitoring well acris	al nhotos	nrevious	e inener	tions), if available:	
Pescine Ke	oorded Data (Sife)	an yauye, 1110	intorning well, aerik	ai priotos	, previous	a mapec	alono), ii avallable.	
Remarks:								
1								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development	City/County: Maryland Heights / St. Louis Sampling Date: 8/19/2022
Applicant/Owner: NorthPoint Development, LLC	State: MO Sampling Point: SP-24
Investigator(s): B. Burkart and R. Thies	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Flat	Local relief (concave, convex, none): None
Slope (%): 0-5 Lat: 38.728797	Long: -90.510380 Datum: NAD 83
Soil Map Unit Name: Booker silty clay, frequently ponded, 0 to 2 percent	nt slopes, occasionally flooded NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No_X (If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology significantly distu	urbed? Are "Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)
	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	
Remarks:	
The sample point was taken in a corn field. Conditions were wetter that	an normal. Upland.
VEGETATION III : ""	
VEGETATION – Use scientific names of plants. Absolute D	Dominant Indicator
	Species? Status Dominance Test worksheet:
1	Number of Dominant Species That
2	Are OBL, FACW, or FAC:(A)
3	Total Number of Dominant Species
4	Across All Strata:(B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	``
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 = FACW species x 2 =
4	FAC species x3 =
=To	otal Cover FACU species x 4 =
Herb Stratum (Plot size:)	UPL species x 5 =
1	(A)(B)
2	Prevalence Index = B/A =
3	Hydrophytic Vegetation Indicators:
5.	1 - Rapid Test for Hydrophytic Vegetation
6.	2 - Dominance Test is >50%
7.	3 - Prevalence Index is ≤3.0 ¹
8	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9	Problematic Hydrophytic Vegetation ¹ (Explain)
10====	problematic hydrophytic vegetation (Explain) tal Cover Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	be present, unless disturbed or problematic.
1	Hydrophytic
2.	Vegetation
	tal Cover Present? Yes No X
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation was disturbed as the sample point was taken in a corn	n field

Depth	Matri	x	Redo	ox Featur	es				
inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 3/1	94	10YR 3/6	1	С	PL/M	Loamy/Clayey	Prominent redox conce	ntrations
								Also has 10YR 5/1, 5%	%, D, M
									-, ,
								-	
							21 11		
lype: C=Co lydric Soil li	· · · · · · · · · · · · · · · · · · ·	Depletion, RIV	1=Reduced Matrix, I	MS=Mas	ked Sand	Grains.		n: PL=Pore Lining, M=Matrix ors for Problematic Hydric S	
Histosol (Sandy Gle	wad Mat	riv (S/1)			st Prairie Redox (A16)	oons :
	ipedon (A2)		Sandy Re	-				-Manganese Masses (F12)	
Black His			Stripped N					Parent Material (F21)	
	Sulfide (A4)		Dark Surfa	,	-,			Shallow Dark Surface (F22)	
	Layers (A5)		Loamy Mu	, ,	eral (F1)			er (Explain in Remarks)	
2 cm Muc			Loamy Gl	-				,	
	Below Dark Sur	face (A11)	Depleted						
Thick Dar	rk Surface (A12)		Redox Da	rk Surfac	e (F6)		³ Indicato	ors of hydrophytic vegetation	and
Sandy Mu	ucky Mineral (S1)	Depleted	Dark Sur	face (F7)		wetl	and hydrology must be prese	ent,
5 cm Muc	cky Peat or Peat	(S3)	Redox De	pression	s (F8)		unle	ss disturbed or problematic.	
		nd):							
Restrictive L	ayer (if observe	ŧu).							
Restrictive L Type:	.ayer (if observe	eu).							
Type: Depth (ind Remarks:	ches):		int was taken in a c	orn field.			Hydric Soil Preser	nt? Yes	No
Type: Depth (ind Remarks:	ches):		int was taken in a c	orn field.			Hydric Soil Presei	nt? Yes	No
Type: Depth (ind Remarks:	ches):		int was taken in a c	orn field.			Hydric Soil Preser	nt? Yes	No
Type:	ches):	ne sample poi	int was taken in a c	orn field.			Hydric Soil Preser	nt? Yes	No
Type:	ches): re disturbed as the	ne sample poi	int was taken in a c				•	nt? Yes	
Type: Depth (ind Remarks: The soils were YDROLO Vetland Hyd Surface V	GY drology Indicators (minimum) Nater (A1)	ne sample poi	uired; check all that Water-Sta	apply) ained Lea	, ,		Seconda Surl	ary Indicators (minimum of twace Soil Cracks (B6)	
Type: Depth (ind Remarks: The soils were YDROLO Vetland Hyd Primary Indic. Surface V High Wat	GY drology Indicators (minimum Nater (A1) ter Table (A2)	ne sample poi	uired: check all that Water-Sta Aquatic Fa	apply) ained Lea auna (B1	3)		Seconda Surl Drai	ary Indicators (minimum of tw ace Soil Cracks (B6) nage Patterns (B10)	
Type: Depth (ind Remarks: The soils were YDROLO Vetland Hyd Primary Indica Surface V High Wat Saturation	GY drology Indicators (minimum Nater (A1) ter Table (A2) n (A3)	ne sample poi	uired; check all that Water-Sta Aquatic Fa	apply) nined Lea auna (B1 atic Plant	3) s (B14)		Seconda Surl Drai Dry-	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2)	
Type: Depth (ind Remarks: The soils were YDROLO Vetland Hyd Primary Indic. Surface V High Wat Saturation Water Ma	GY drology Indicators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1)	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua	apply) nined Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)	Seconda Surl Drai Dry- Cra	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) r/fish Burrows (C8)	vo require
Type: Depth (ind Remarks: The soils were YDROLO Vetland Hyd Primary Indic. Surface V High Wat Saturation Water Ma Sediment	GY drology Indicators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) nined Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1) eres on l) _iving Ro	Seconda Surl Drai Dry- Cray oots (C3) Satu	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) r/fish Burrows (C8) uration Visible on Aerial Imag	vo requir
Type: Depth (included in the soils were soils were soils were soils were soils were soils were soils water Manager soils water	GY drology Indicators (minimum Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3)	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) nined Lea auna (B1 autic Plant Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1) eres on l ced Iron () _iving Ro (C4)	Seconda Surl Drai Dry- Cra- Satu Stur	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imaguted or Stressed Plants (D1)	∕o requir
Type: Depth (included in the soils were soils were soils were soils were soils were soils were soils water Marting sediment Drift Depot Algal Mater (in the soil soils water Marting sediment	GY drology Indicators (minimum Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc	3) s (B14) Odor (C1) eres on I ced Iron () _iving Ro (C4)	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagented or Stressed Plants (D1) morphic Position (D2)	vo requir
Type:	GY drology Indicators (minimum Nater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc	apply) ined Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface	3) s (B14) Odor (C1) eres on led Iron (etion in Ti) _iving Ro (C4)	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imaguted or Stressed Plants (D1)	vo requir
Type:	GY drology Indicators (minimum Nater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeri	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc Thin Muck Gauge or	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	3) s (B14) Odor (C1) eres on l ced Iron (ction in Ti e (C7) a (D9)) _iving Ro (C4)	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagented or Stressed Plants (D1) morphic Position (D2)	∕o requir
Type:	GY drology Indicators (minimum) Nater (A1) ter Table (A2) n (A3) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeri Vegetated Conc	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc Thin Muck Gauge or	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat	3) s (B14) Odor (C1) eres on l ced Iron (ction in Ti e (C7) a (D9)) _iving Ro (C4)	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagented or Stressed Plants (D1) morphic Position (D2)	∕o requir
Type:	GY frology Indicatorators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aeri Vegetated Concretions:	ors: of one is required in the sample points: all Imagery (E	uired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized Fi Presence Recent Irc Thin Muck 37) Gauge or (B8) Other (Exp	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc of Reduc of Surface Well Dat plain in R	3) s (B14) Odor (C1) eres on l ced Iron (ction in Ti e (C7) a (D9) Remarks)) _iving Ro (C4)	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagented or Stressed Plants (D1) morphic Position (D2)	∕o requir
Type:	GY frology Indicatorators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aeri Vegetated Concretions: er Present?	ne sample poi	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc Thin Muck Gauge or	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc c Surface Well Dat plain in R	3) s (B14) Ddor (C1) eres on I ced Iron (tition in Ti c(C7) a (D9) Remarks)) Living Ro (C4) Iled Soil:	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagented or Stressed Plants (D1) morphic Position (D2)	vo requir
Type:	GY frology Indicatorators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeri Vegetated Concretions: er Present? Present?	ors: of one is required in the sample points: all Imagery (Einave Surface in Yes	uired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized Fi Presence Recent Irc Thin Muck 37) Gauge or (B8) Other (Ext	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc c Surface Well Dat plain in R	3) s (B14) Ddor (C1) eres on I ced Iron (tition in Tit (C7) a (D9) Remarks) nches):nches):) Living Ro (C4) Iled Soil:	Seconda Suri Drai Dry- Cra- Soots (C3)	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Image ted or Stressed Plants (D1) morphic Position (D2) :-Neutral Test (D5)	vo requir
Type:	GY Irology Indicatorators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeri Vegetated Concurations: er Present? Present?	ors: of one is required in the sample points: of one is required in the sample points in the	uired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized Fi Presence Recent Irc Thin Muck 37) Gauge or (B8) Other (Ext	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc c Surface Well Dat plain in R	3) s (B14) Ddor (C1) eres on I ced Iron (tition in Tit (C7) a (D9) Remarks) nches):nches):) Living Ro (C4) Iled Soil:	Seconda Surl Drai Dry- Crai Stur S (C6) Geo	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Image ted or Stressed Plants (D1) morphic Position (D2) :-Neutral Test (D5)	o requir
Type:	GY Irology Indicatorators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeri Vegetated Concurations: er Present? Present? esent?	ors: of one is required at Imagery (Eave Surface to Yes Yes Yes Yes	uired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized Fi Presence Recent Irc Thin Muck 37) Gauge or (B8) Other (Ext	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc os Surface Well Dat plain in R Depth (i Depth (i	3) s (B14) Ddor (C1) eres on I eres on I tition in Ti (C7) a (D9) Remarks) nches): nches):) Living Ro C4) Illed Soil:	Seconda Surf Drai Dry Cray Soots (C3) Stur Stur GC6) FAC	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Image ted or Stressed Plants (D1) morphic Position (D2) :-Neutral Test (D5)	o requir ery (C9)
Type:	GY Irology Indicatorators (minimum Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aeri Vegetated Concurations: er Present? Present? esent?	ors: of one is required at Imagery (Eave Surface to Yes Yes Yes Yes	uired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence Recent Irc Thin Muck 37) Gauge or (B8) Other (Ex) No X No X	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc os Surface Well Dat plain in R Depth (i Depth (i	3) s (B14) Ddor (C1) eres on I eres on I tition in Ti (C7) a (D9) Remarks) nches): nches):) Living Ro C4) Illed Soil:	Seconda Surf Drai Dry Cray Soots (C3) Stur Stur GC6) FAC	ary Indicators (minimum of twace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Image ted or Stressed Plants (D1) morphic Position (D2) :-Neutral Test (D5)	o requir ery (C9)

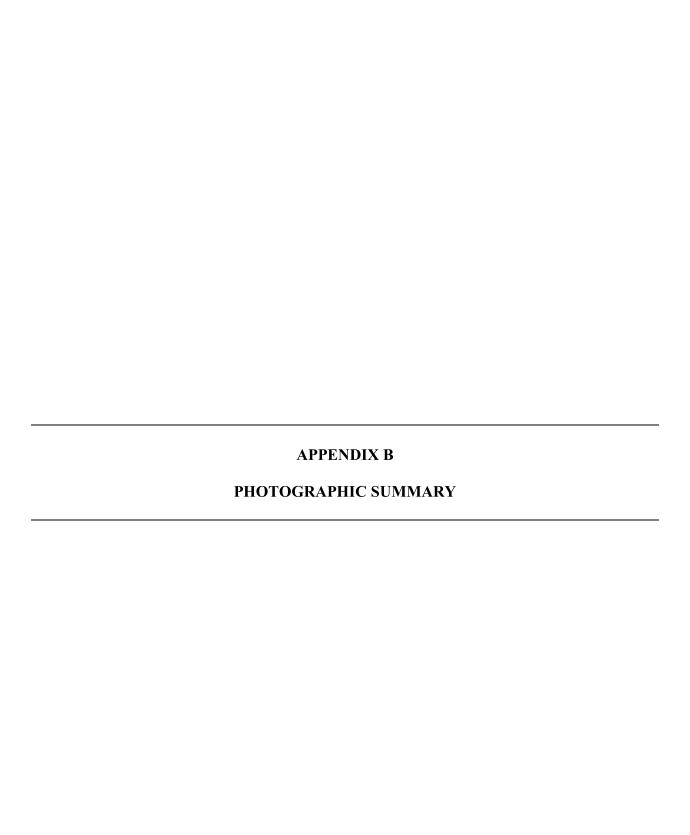
U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: NorthPoint Development		City/Cour	nty: Marylar	nd Heights / St. Louis	Sampling Da	te: <u>8/19</u>	/2022
Applicant/Owner: NorthPoint Development, LLC				State: MO	Sampling Poi	nt: S	P-25
Investigator(s): B. Burkart and R. Thies		Section, T	ownship, Ra	nge: N/A			
Landform (hillside, terrace, etc.): Top of a berm		լ	_ocal relief (c	concave, convex, none):	Convex		
Slope (%): 0-5 Lat: 38.734296		Long: -9	90.501674	•	Datum: NAD 8	3	
Soil Map Unit Name: Peers silty clay loam, 0 to 2 percentage	ent slopes, c				ication: Upland		
Are climatic / hydrologic conditions on the site typical f	or this time o	of vear?	Yes	No X (If no, exp	olain in Remark	s.)	
Are Vegetation, Soil, or Hydrology		•		Circumstances" present?		, No	
Are Vegetation, Soil, or Hydrology				plain any answers in Rer			_
SUMMARY OF FINDINGS – Attach site ma				-	·	eatures	, etc.
Hydrophytic Vegetation Present? Yes X No		la tha	Campled A	· · · · · · · · · · · · · · · · · · ·			
	S X		Sampled Aı a Wetlandî		No X		
	$\frac{X}{X}$				<u>//</u>		
Remarks:	<u> </u>	<u> </u>					
The sample point was taken on a berm within a wood	ed area betv	veen a corn fie	ld and a soyl	oean field. Conditions we	re wetter than r	normal. Up	oland.
VEGETATION – Use scientific names of pla							
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	kshoot.		
1. Diospyros virginiana	45	Yes	FAC	Number of Dominant			
2. Morus alba	35	Yes	FAC	Are OBL, FACW, or F		4	(A)
3. Celtis occidentalis	10	No	FAC	Total Number of Dom	inant Species		- `′
4.				Across All Strata:		5	(B)
5.				Percent of Dominant	Species That		
	90	=Total Cover		Are OBL, FACW, or F	AC:	80.0%	_ (A/B)
Sapling/Shrub Stratum (Plot size: 15)						
1. Lonicera maackii	55	Yes	UPL	Prevalence Index wo		Carlos Issas	
2				Total % Cover of OBL species		tiply by: 0	-
3. 4.				OBL species C FACW species C		0	-
5.				FAC species 10		300	-
·	55	=Total Cover		FACU species 0		0	_
Herb Stratum (Plot size: 5)				UPL species 5		275	_
1. Celtis occidentalis	5	Yes	FAC	Column Totals: 15	5 (A)	575	– (B)
2. Diospyros virginiana	5	Yes	FAC	Prevalence Index	= B/A =	3.71	_
3.							
4				Hydrophytic Vegetat	ion Indicators:	:	
5				1 - Rapid Test for	, ,	egetation	
6				X 2 - Dominance Te			
7.				3 - Prevalence Ind 4 - Morphological			
8				data in Remark			
9. 10.				Problematic Hydr			
10	10	=Total Cover		¹ Indicators of hydric s			,
Woody Vine Stratum (Plot size: 30)	70101 00701		be present, unless dis			must
1.				Hydrophytic	,		
2.				Vegetation			
		=Total Cover		Present? Yes	X No		
Remarks: (Include photo numbers here or on a separate	rate sheet.)						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth		ox Featu									
(inches)	Color (moist	<u> </u>	Color (moist)	%_	Type ¹	Loc ²	Texture		Remarks		
0-16	10YR 4/3	100					Loamy/Clayey				
				. —							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.							² l coatio	n: PL=Pore Li	ning M-Motrix	,	
Hydric Soil Indicators:								ors for Proble		•	
Histosol	Sandy Gle	eved Mat	rix (S4)		Coast Prairie Redox (A16)						
Histic Epipedon (A2)			Sandy Re	-			Iron-Manganese Masses (F12)				
Black Hi	Stripped N				Red Parent Material (F21)						
Hydroge	Dark Surf	,	,		Very Shallow Dark Surface (F22)						
Stratified	Loamy Mu	ucky Min	eral (F1)		Other (Explain in Remarks)						
2 cm Mu	Loamy GI	eyed Ma	trix (F2)								
Depleted	Depleted	Matrix (F	3)								
Thick Da	Redox Da	rk Surfac	ce (F6)		³ Indicators of hydrophytic vegetation and						
Sandy M	Depleted	Dark Sur	face (F7)		wetland hydrology must be present,						
5 cm Mu	Redox De	Redox Depressions (F8)				unless disturbed or problematic.					
Restrictive	Layer (if observe	ed):									
Type:	_										
Depth (inches):			_					Hydric Soil Present? Yes No X			
Remarks:											
Soil was likely disturbed as the sample point was taken on top of a berm.											
HYDROLOGY											
Wetland Hydrology Indicators:											
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two									vo required)		
Surface	Water-Sta		aves (B9)		Surface Soil Cracks (B6)						
High Wa	Aquatic F					inage Patterns					
Saturation	True Aqua	atic Plant	ts (B14)		Dry-	-Season Water	Table (C2)				
Water M	Hydrogen	Sulfide	Odor (C1)	Cra	yfish Burrows ((C8)				
Sedimer	Oxidized I	Rhizosph	neres on I	_iving R	oots (C3) Sati	uration Visible	on Aerial Imag	ery (C9)			
Drift Dep	Presence					nted or Stresse	, ,				
Algal Ma	Recent Iro			lled Soil		omorphic Positi					
Iron Dep		Thin Muck Surface (C7)				C-Neutral Test	(D5)				
Inundation											
	/ Vegetated Cond	ave Surrace (B	8) Other (Ex	piain in F	remarks)						
Field Obser		V	N- V	D = == 41= /3	:\.						
Surface Wat		Yes	No X		inches): _						
			No X No X	Depth (i Depth (i			Wetland Hydrology Present? Yes No X				
	<u> </u>	Deptii (i			Wellula Hydrology Freschi: Fes No _X						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
2 2301.50 110	- 3 (0110	gaago, mo		p.110100	, p. 0 + 10 u	opoc	, arandolo.				
Remarks:											
ii											





Description: Emergent wetland (WTL-1). Direction of view (DOV) is southwest.



Photo Number: 2

Description: WTL-1. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: WTL-1. Photo taken of sample point (SP-1). DOV is southwest.



Photo Number: 4

Description: WTL-1. Photo taken of SP-2. DOV is northwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. Photo taken of SP-3. DOV is northeast.



Photo Number: 6

Description: Emergent wetland (WTL-2). Photo taken of SP-4. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 8

Description: Emergent wetland (WTL-3). DOV is southwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: WTL-3. Photo taken of SP-5. DOV is northwest.



Photo Number: 10

Description: Upland. DOV is southeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. Photo taken of SP-6. DOV is west.



Photo Number: 12

Description: Upland. DOV is northwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is southwest.



Photo Number: 14

Description: Emergent wetland (WTL-4). Photo taken of SP-7. DOV is east.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is southeast.



Photo Number: 16

Description: Emergent wetland (WTL-5). Photo taken of SP-8. DOV is west.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 18

Description: Upland. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Ditch (D-1). DOV is northwest.



Photo Number: 20

Description: Scrub/shrub wetland (WTL-5). Photo taken of SP-10. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Forested wetland (WTL-6). Photo taken of SP-9. DOV is southwest.



Photo Number: 22

Description: Upland. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. Photo taken of SP-11. DOV is east.



Photo Number: 24

Description: Upland. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 26

Description: Upland. DOV is northwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 28

Description: Upland. DOV is south.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is south.



Photo Number: 30

Description: Upland. DOV is west.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is southwest.



Photo Number: 32

Description: Upland. DOV is southeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Emergent wetland (WTL-7). Photo taken of SP-12. DOV is northwest.



Photo Number: 34

Description: Upland. Photo taken of SP-13. DOV is north.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is southeast.



Photo Number: 36

Description: Upland. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is east.



Photo Number: 38

Description: Upland. DOV is southeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Emergent wetland (WTL-8). DOV is southeast.



Photo Number: 40

Description: Emergent wetland (WTL-9). DOV is southwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: WTL-8. Photo taken of SP-14. DOV is northeast.



Photo Number: 42

Description: Upland. Photo taken of SP-15. DOV is southwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: WTL-9. Photo taken of SP-16. DOV is west.



Photo Number: 44

Description: Upland. Photo taken of SP-17. DOV is west.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is east.



Photo Number: 46

Description: Upland. DOV is south.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is southeast.



Photo Number: 48

Description: Upland. DOV is southeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 50

Description: Upland. DOV is northwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northeast.



Photo Number: 52

Description: Upland. DOV is northwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 54

Description: Upland. DOV is east.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. Photo taken of SP-18. DOV is east.



Photo Number: 56

o Namber. 30

Description: Upland. Photo taken of SP-19. DOV is southwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northeast.



Photo Number: 58

Description: Upland. Photo taken of SP-20. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. Photo taken of SP-21. DOV is northeast.



Photo Number: 60

Description: Upland. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Upland. DOV is northeast. Description:



Photo Number: 62

Description: WTL-1. Photo taken of SP-22. DOV is southwest.



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Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: WTL-1. DOV is northwest.



Photo Number: 64

Description: WTL-1. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. Photo taken of SP-23. DOV is north.



Photo Number: 66

Description: Upland. DOV is west.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 68

Description: Upland. DOV is southwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is north.



Photo Number: 70

Description: Upland. DOV is southwest.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Photo Number: 72

Description: Upland. Photo taken of SP-24. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is southeast.



Photo Number: 74

Description: Upland. Photo taken of SP-25. DOV is northeast.



Civil & Environmental Consultants, Inc.

Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC



Description: Upland. DOV is northwest.



Project Name: NorthPoint Development

Client Name: NorthPoint Development, LLC
Project Number: 324-613

