

WDNR PROFESSIONALLY ASSURED WETLAND DELINEATION REPORT

Project Name: River Road Lot 2

Project Location: City of Waukesha, Waukesha County, WAKC1375125, T6N/R19E/SEC20.

Prepared For: Bielinski Homes Inc, 1830 Meadow Lane, Suite A, Pewaukee, WI 53072

Prepared By: raSmith, 16745 West Bluemound Road, Suite 200, Brookfield, WI 53005-5938

Date: 5/21/2025

raSmith Project Number: 2255319



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1. INTRODUCTION

The purpose of this delineation was to confirm the presence or lack of wetlands within the 4.74-acre study area boundary. The results and findings of this investigation will help the developer better plan for a multi-family housing development. The study area is located at the intersection of Rapids Trail and River Road in the City of Waukesha, Township 6 North, Range 19 East, Section 20. Parcel number WAKC1375125.

2. STATEMENT OF QUALIFICATIONS

The project area was reviewed and delineated on April 28, 2025, by Ms. Erica Pergande, Senior Wetland Ecologist at raSmith (PWS #3051), with field assistance from Thomas Johns, raSmith Wetland Ecologist. Ms. Pergande is a WDNR Professionally Assured Wetland Delineator with over 20 years of experience supporting public infrastructure, private development, and industrial projects across Wisconsin and the upper Midwest. Her areas of expertise include wetland delineations, regulatory reporting, permit application preparation, compensatory mitigation planning, and floristic quality assessments. She is professionally trained and highly experienced in the application of federal and state wetland delineation protocols, as well as construction site compliance inspections.

3. METHODOLOGY

3.1 Resource Review

Prior to conducting the field investigation, a variety of desktop resources were reviewed to develop a comprehensive understanding of the site and its environmental context. These materials are included in this report and consisted of, but were not limited to, the following:

- USGS Topographic Map (Figure 1A)
- Waukesha County 1-Foot Contour Map (Figure 1B)
- Wisconsin Wetland Inventory (WWI) Map (Figure 2A)
- WDNR Surface Water Data Viewer (SWDV) – LIDAR Map (Figure 2B)
- NRCS Web Soil Survey (Figure 3)
- Historical aerial imagery from multiple years (Figure 4)
- Antecedent Precipitation Tool (APT) results and Palmer Drought Severity Index Report (Appendix A)

Review of these resources provided valuable insight into the site's topography, drainage patterns, mapped wetland boundaries, soil types, surface water features, and historical land use, supporting both pre-field planning and post-field interpretation.

3.2 Site Investigation Procedures

WETLAND BOUNDARY MARKING PROTOCOL

This wetland delineation was conducted in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region

(Version 2.0, 2012). Boundaries of identified wetlands were flagged in the field using pin flags and/or flagging labeled “WETLAND BOUNDARY” to facilitate visual identification and any subsequent survey.

Wetland boundary locations and sample points were recorded using a Trimble Catalyst DA2 GNSS Receiver, providing sub-meter positional accuracy (approximately 30 cm). This GPS data was later integrated into GIS to generate the Wetland Boundary Map.

SAMPLING POINT PROTOCOL

Vegetation Sampling

Vegetation was surveyed using nested circular plots to account for varying plant strata: a 5-foot radius was used for herbaceous species, a 15-foot radius for shrubs, and a 30-foot radius for trees and woody vines. Within each plot, percent cover was visually estimated, and dominant species were determined using the 50/20 Rule and/or the Prevalence Index, as appropriate.

Plant nomenclature and wetland indicator status were based on the National Wetland Plant List (U.S. Army Corps of Engineers, 2020; Version 3.5), available at <http://wetlandplants.usace.army.mil>. When necessary, regional field guides were consulted to assist in plant identification.

Soil Sampling

Soils were evaluated for hydric characteristics through examination of soil profiles obtained using a Dutch auger. Profiles were excavated to a depth sufficient to confirm or refute the presence of hydric soil indicators. Typically, soil profiles were observed to a depth of 18 to 24 inches below the ground surface to enable: (1) assessment of a sufficient portion of the soil profile to determine the presence or absence of hydric soil features; (2) evaluation of hydrology, including depth to the water table and extent of saturation; and (3) identification of potential disturbances, such as buried horizons or plow layers.

In cases where site conditions prevented excavation to the typical 18–24-inch depth, or where hydric indicators were observed outside of that range, specific justifications are provided. Soil color determinations were made using the Munsell Soil Color Charts (Gretag-Macbeth, 1994). Observed soil characteristics were compared with those described in the Soil Survey of Waukesha County (USDA Web Soil Survey, 2024). Hydric soil indicators were assessed in accordance with both the Regional Supplement to the Corps of Engineers Wetland Delineation Manual and the Field Indicators of Hydric Soils in the United States, Version 9.0 (NRCS, 2020).

Hydrology Assessment

Each sample point was evaluated for indicators of wetland hydrology, including surface inundation or standing water, a visible water table, and/or soil saturation measured from the surface. When observed, these hydrologic indicators were recorded on the corresponding data sheets. To ensure accuracy, soil pits were typically left open for a minimum of 30 minutes prior to measurement, allowing potential water levels to stabilize.

Antecedent precipitation conditions were assessed using the Antecedent Precipitation Tool (APT), which calculated and graphed precipitation data for the three months preceding the field visit. This analysis helped determine whether conditions during that period were “dry,” “normal,” or “wet.” NOAA U.S. Daily Gridded Precipitation Data, along with associated station count data, indicated that the 30-day rolling precipitation totals leading up to the site visit fell within the range of “wetter than normal” based on comparisons with 30-year historical averages. Additionally, the Palmer Drought Severity Index (PDSI) was reviewed and indicated mid-range climatic conditions (between -1.99 and +1.99) at the time of the visit.

Based on an evaluation of both datasets—particularly emphasizing the local WETS station data and APT results—climatic conditions at the time of the site visit were classified as “normal” (see Appendix A). Correspondingly, site hydrology appeared to reflect normal conditions.

4. RESULTS

4.1 Desktop Resource Review

The results of the comprehensive desktop review corroborated the findings of the site investigation. A total of three (3) wetlands (W-1-W-3) were identified and delineated within the study area.

4.1.1 Topography, Slope, and Aspect

USGS 3-m digital elevation data and the 1892, 1934, and 1968 topographic sheets indicate the study area occupies a narrow north-south ridge that grades gently (≈ 1 –2 percent) down toward the Fox River floodplain (Figures 2C, 4, 9). Elevations fall from approximately 800 ft (north end) to 785–790 ft (south end). The land surface therefore has a southerly aspect with local micro-relief created by historic drainage improvements (see § 4.1.2).

4.1.2 Surface Hydrology

- **Fox River floodplain** – South and southwest margins; regional receiving water.
- **Historic tributary** – A sinuous natural drain appears on the 1863 plat and persists through all subsequent mapping.
- **Agricultural drainage ditch** – First depicted on the 1968 USGS topo and mapped by NRCS (1971 Soil Survey). The ditch trends southwest–northeast across the south-central portion and remains the primary surface-water conveyance today.
- **Depressional ponding** – Orthophotos from 2000 onward show recurring spring ponding in two shallow basins that correspond to Wetlands W-2 and W-3.

These features collectively support overbank flooding, shallow groundwater emergence, and perched surface runoff that sustain the three delineated wetlands.

4.1.3 Soils

NRCS Web Soil Survey shows three map units inside the study limits (Table 4-1). Of note, the Warsaw loam that underlies Wetlands W-1 and W-2 is well drained and non-hydric; hydric conditions observed in the field therefore reflect a perched water table and altered surface drainage, not inherent soil morphology. The hydric Palms muck (PA) occupies an elongated depression in the flood-plain interior—corresponding to Wetland W-3—while the adjacent

lower side-slopes are mapped as somewhat-poorly-drained Lorenzo loam (LyC2) and the flood-plain flats as well-drained, non-hydric Warsaw loam (WeB).

Table 4-1. Mapped Soils and Hydric Status

Map Unit	Series / Description	Drainage Class*	Hydric Rating†	Landscape Position
WeB	Warsaw loam, 0 – 6 % slopes	Well drained	0 % hydric	Flood-plain flats and gentle risers (W-1, W-2)
LyC2	Lorenzo loam, 6 – 12 % slopes, eroded	Somewhat poorly drained	25 % hydric inclusions	Lower side-slopes (margin of W-3)
Pa	Palms muck, 0 – 2 % slopes, eroded	Hydric	100 % hydric	Depressional basins and swales within the flood-plain interior (core of W-3)

* NRCS Official Series Descriptions

† NRCS Hydric Soils List (WI, 2025)

4.1.4 Wetland Inventory and Classification

The WDNR Surface Water Data Viewer (SWDV) shows one Wisconsin Wetland Inventory (WWI) polygon within the northwest corner, coded **E2K** (freshwater shallow marsh). Historic drainage work has altered the original extent; field delineation refined the boundary to the current Wetland W-1. No WDNR-mapped waterways or Areas of Special Natural Resource Interest (ASNRI) intersect the site.

4.1.5 Historic Land Use Summary

Time-frame	Key observations	Source Figures
Pre-1890's	Broad wet prairie flanking a natural tributary; no ditches or roads	1863 GLO plat & township sketch
1890–1945	Conversion to row-crop agriculture; ridge cultivated; floodplain intermittently wet	1892 & 1934 USGS topos; 1937 USDA aerial; 1945 Bordner Survey
1945–1968	Enlargement of agricultural ditch; intensified drainage to support cropping	1956 & 1963 aerials; 1968 USGS topo (Figs 7–9)

1970–1995	Continued farming; initial suburban grading visible 1990–1995	County GIS orthophotos & plats (Figs 10–13)
2000–2015	Residential build-out surrounding site; depressional ponding evident	2000–2015 aerials & GIS (Figs 14–18)

*Historic disturbance explains why Wetlands W-2 and W-3 exhibit anthropogenic boundaries and altered hydrology, while Wetland W-1 retains characteristics of a wet meadow/shallow marsh.

4.1.6 Desktop Conclusions

The desktop resources corroborate the field investigation. Although mapped as non-hydric Warsaw loam, soil profiles within W-1 and W-2 meet hydric criteria due to artificially elevated groundwater and surface-runoff impoundment. No additional WWI wetlands, waterways, or ASNRI features occur within the study limits.

These findings guided the placement of data points and flagging during the on-site delineation (see Section 4.2).

4.2 Field Investigation

WETLAND W-1:

- **Type:** Emergent Meadow (PEM) wetland, dominated by invasive herbaceous vegetation (rcg), consistent with a seasonally saturated low quality wet meadow community.
- **Size:** Approximately 2,350 square feet.
- **Position (Landscape Context & Connectivity):**
Located within a shallow swale that appears to have artificial origins from previous disturbance/stormwater management. Surrounding land use includes old fields and residential development.
- **Dominant Vegetation (By Stratum):**
 - Herbaceous Layer: *Phalaris arundinacea* – FACW & *Poa pratensis* – FACU
 - Shrub Layer: *Apocynum cannabinum* – FAC
 - Tree Layer: Not present
- **Hydric Soil Indicators:** F6 – Redox Dark Surface
Soils exhibited a dark matrix color (10YR 3/2) & N 2.5/ with 5% redox concentrations as soft masses within the upper 12 inches.
- **Hydrology Indicators:** A2 – High Water Table, A3 – Saturation & D2 – Geomorphic Position.
Evidence of wetland hydrology was supported by a high-water table and saturation with 12 inches as well as concave depressional landform. No standing water was observed at the time of the visit, though saturated conditions were present at the soil surface.
- **Data Points:** DP 3-UPL & DP 4-WET

WETLAND W-2:

- **Type:** Emergent Meadow (PEM) wetland, dominated by invasive herbaceous vegetation (rcg), consistent with a seasonally saturated low quality wet meadow community.
- **Size:** Approximately 3,366 square feet.
- **Position (Landscape Context & Connectivity):**
Located within a depression that appears to have artificial origins from previous disturbance and/or stormwater management. Surrounding land use includes old fields and residential development.
- **Dominant Vegetation (By Stratum):**
 - Herbaceous Layer: *Phalaris arundinacea* – FACW & *Carex scoparia* – FACW
 - Shrub Layer: Not present
 - Tree Layer: Not present
- **Hydric Soil Indicators:** F6 – Redox Dark Surface
Soils exhibited a dark matrix color (10YR 3/2) & N 2.5/ with 5% redox concentrations as soft masses within the upper 12 inches.
- **Hydrology Indicators:** A2 – High Water Table, A3 – Saturation, D2 – Geomorphic Position & D5 – FAC-Neutral Test.
Evidence of wetland hydrology was supported by a high-water table and saturation at the surface within a concave depressional landform. Standing water was observed a few feet away from the data point at the time of the visit.
- **Data Points:** DP 5-UPL & DP 6-WET

WETLAND W-3:

- **Type:** Both Forested (Palustrine) and Emergent (Palustrine) wetland characteristics were observed by the dominance of both herbaceous and woody vegetation, consistent with these communities.
- **Size:** Approximately 0.28 acres 12,200 square feet-wetland extends outside of study area.
- **Position (Landscape Context & Connectivity):**
Located within a low-lying topographic position adjacent to a shallow swale that drains seasonally toward an unnamed tributary approximately 400 feet to the southeast. The wetland is part of a fragmented wetland complex with intermittent surface connectivity via overland flow during periods of high precipitation. Surrounding land use includes agricultural fields and residential development.
- **Dominant Vegetation (By Stratum):**
 - Herbaceous Layer: *Alliaria petiolata* (FACU) dominant, *Urtica dioica* (FAC) present.
 - Shrub Layer: *Rhamnus cathartica* (FAC) dominant, *Lonicera morrowii* (FACU) present.
 - Tree Layer: *Acer negundo* (FAC) dominant.
- **Hydric Soil Indicators:** A12 - Thick Dark Surface.
Soils exhibited 0-12 inches of a dark matrix color (7.5YR 2.5/1) sandy loam underlain by 12-24 inches: Mucky loam/clay with redox features.
- **Hydrology Indicators:** B9 – Water-Stained Leaves & D2 – Geomorphic Position
Evidence of wetland hydrology was supported by water-stained leaves and position

within a concave landform receiving overland flow. No standing water was observed at the time of the visit, though saturated conditions were observed at 12 inches in the soil pit.

- **Data Points:** DP 1-WET & DP 7-UPL

SURROUNDING UPLANDS

Surrounding uplands were dominated primarily by turf grass (*Poa pratensis*, FACU), smooth brome (*Bromus inermis* – UPL), fescue (*Festuca rubra* – FACU) and ruderal species (*Leonurus cardiaca* – UPL), (*Plantago rugelii* – FACU), (*Daucus carota* – UPL) with well-drained soils lacking hydric indicators. These areas were topographically elevated at least 1–2 feet above the wetland boundary.

5. CONCLUSION

The procedures described in this report and the field methods used constitute an official wetland delineation in accordance with the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual and applicable Regional Supplement. This report also follows the reporting standards and submittal procedures defined in the 2015 Wisconsin Department of Natural Resources Guidance for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources.

The field delineation was completed by Erica N. Pergande (PWS # 5091). The methodology meets the standards and criteria described in the manual and conforms to the applicable and current standards and regulations at the time the fieldwork was completed. The results reflect the conditions present at the time of the delineation.

6. REGULATORY

Wetlands in the project area are regulated by agencies at the local, state, and federal levels including the USACE and the EPA at the federal level, and the WDNR at the state level. Construction plans that propose any direct alteration or indirect impact to wetlands, water courses, or aquatic resources within the project area may require permits from the appropriate regulatory agencies. Violation of wetland regulations can result in substantial civil and/or criminal penalties.

Wetland Protective Area Requirements NR 151 .12(5)(c)

NR 151 is part of Wisconsin's Runoff Management Administrative Code, which establishes minimum performance standards for stormwater management in post-construction development. Section NR 151.12(5)(c) specifically addresses "protective areas", also referred to as vegetated buffer zones, that must be maintained adjacent to water resources — including wetlands.

Wetland Type	Required Buffer
<i>Highly susceptible wetlands (e.g., calcareous fens, sedge meadows, bogs, marshes)</i>	50 feet
<i>All wetlands ≥ 2 acres</i>	25 feet
<i>All wetlands < 2 acres</i>	10 feet
<i>Wetlands adjacent to lakes, rivers, or streams</i>	50 feet

7. REFERENCES

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Figures

Figure 1A - USGS Site Location Map

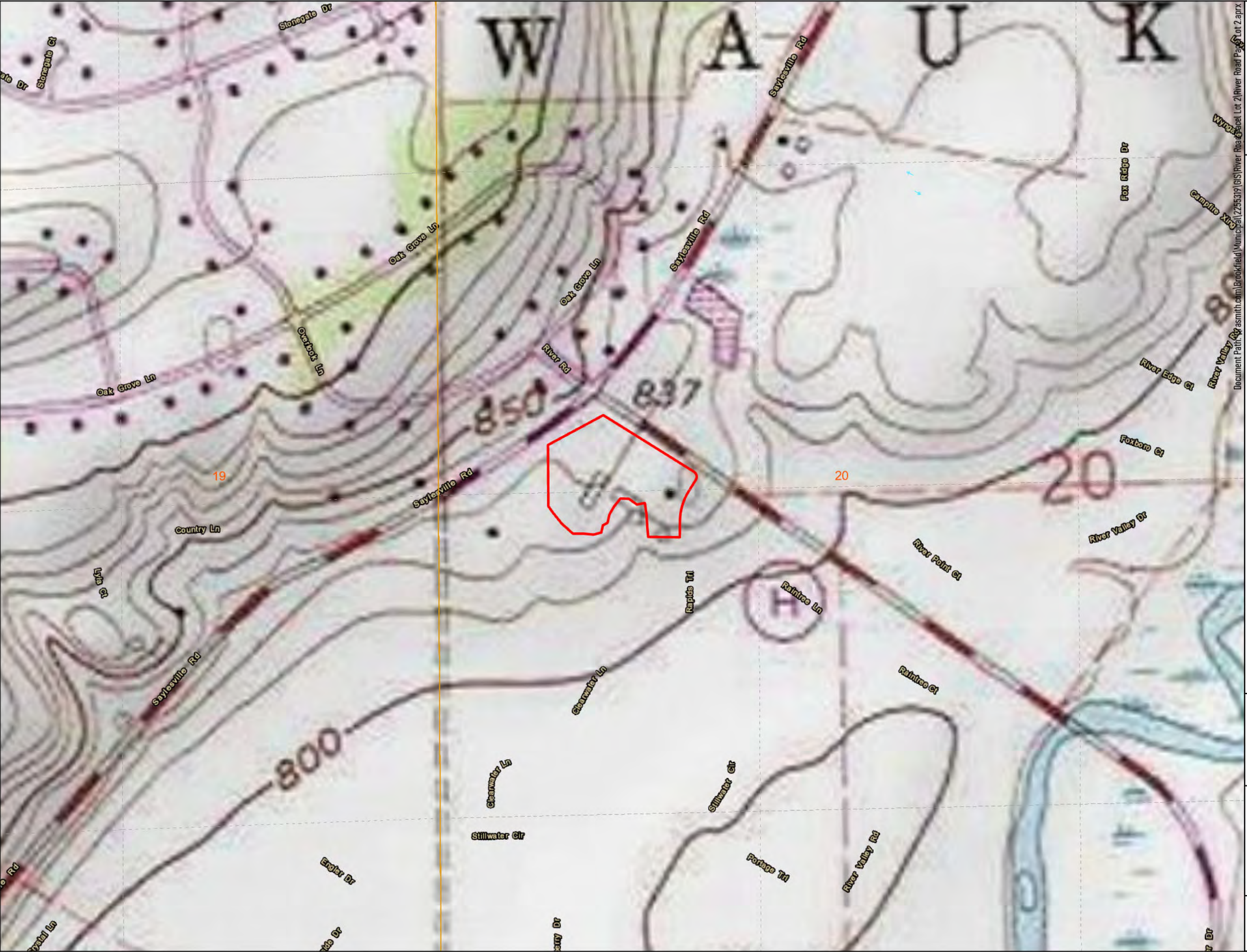
Figure 1B - Waukesha County 1' Contour Map

Figure 2 - Wisconsin Wetland Inventory LiDAR Map

Figure 3 - NRCS Soil Survey Map

Figure 4 - Historic Aerials

Figure 5 - Wetland Delineation Boundary Map




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River Road Lot 2
City of Waukesha
Waukesha County, Wisconsin

Map Legend
 Study Area

USA_Topo_Maps: Copyright:© 2013 National Geographic Society, i-cubed
DW_Map_Dynamic/EN_PLSS_Boundaries_WTM_Ext:
World Transportation: Esri, HERE, iPC

Figure 1A
USGS Site Location Map

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CREATIVITY BEYOND ENGINEERING

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1-inch equals 376-feet




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City of Waukesha
Waukesha County, Wisconsin

Map Legend

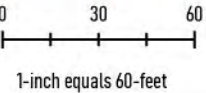
- Study Area
- Intermediate Contour (1-foot)
- Index Contour (5-foot)

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World Transportation: Esri, HERE, iPC

Figure 1B
County 1-foot Contour Map



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Waukesha County, Wisconsin

- Map Legend
- Study Area
 - Wisconsin Wetland Inventory
 - Maximum Extent Wetland Indicators

WDNR Surface Water Data Viewer
World Imagery: SEWRPC, Maxar, Microsoft
World Transportation: Esri, HERE, iPC

Figure 2A
Wisconsin Wetland
Inventory Map




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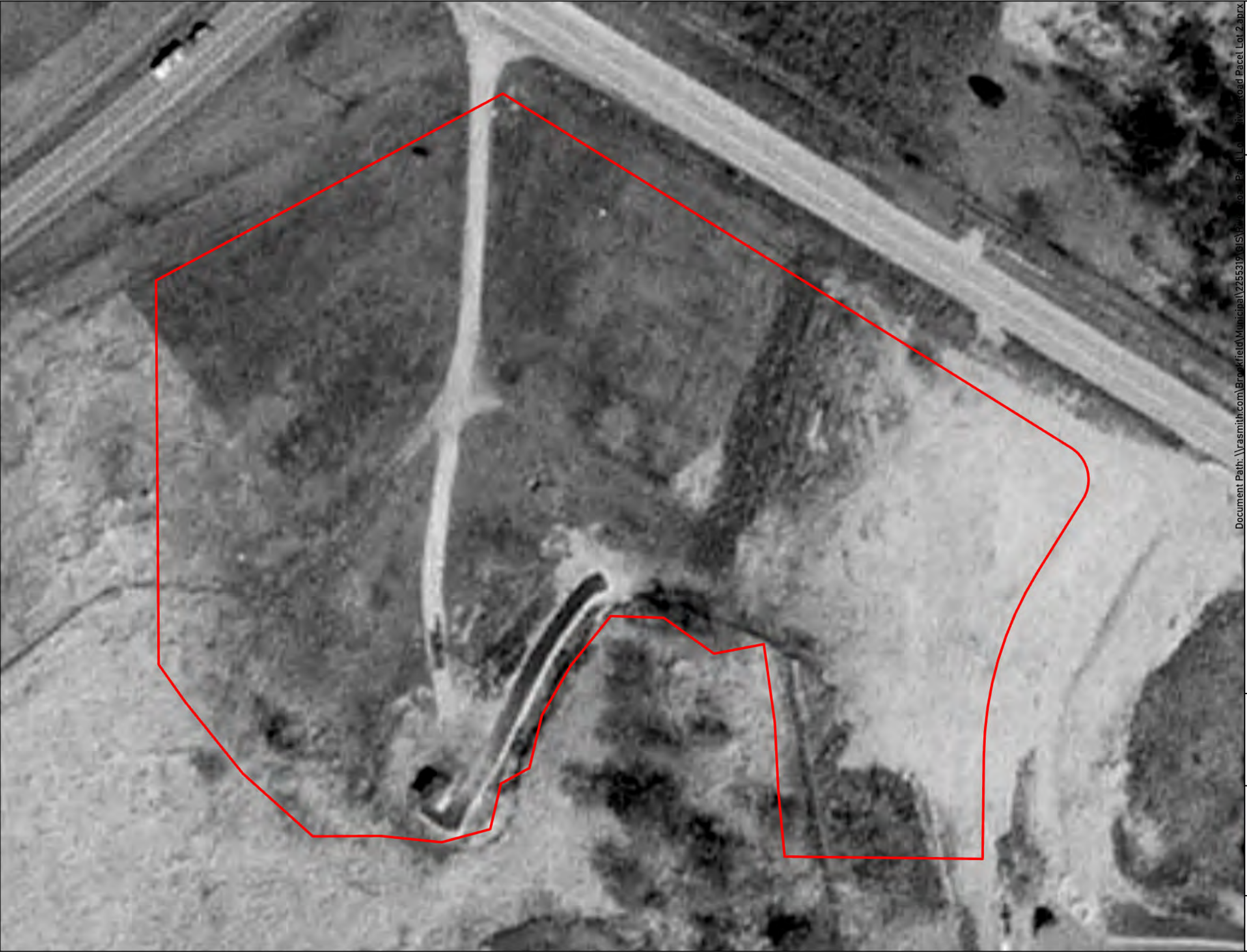
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Map Legend
 Study Area

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Figure 4A
1941 Historic Aerials





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River Road Lot 2
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Waukesha County, Wisconsin

Map Legend
 Study Area

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Figure 4B
2000 Historic Aerials





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Bielinski Homes, Inc.
River Road Lot 2
City of Waukesha
Waukesha County, Wisconsin

Map Legend
 Study Area (4.74 Acres)

RASTER\ORTH02005:
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Figure 4C
2005 Historic Aerials

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City of Waukesha
Waukesha County, Wisconsin

Map Legend
 Study Area (4.74 Acres)

RASTER\ORTH02010: Waukesha County - Land Information System Division
World Transportation: Esri, HERE, iPC


Figure 4D
2010 Historic Aerials





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Map Legend
 Study Area (4.74 Acres)

RASTER\ORTHO2015:
World Transportation: Esri, HERE, iPC

Figure 4E
2015 Historic Aerials





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Map Legend
 Study Area (4.74 Acres)

RASTER\ORTH02020: WC Land Information Office, WLIP, SEWRPC, Ayres Associates
World Transportation: Esri, HERE, iPC

Figure 4F
2020 Historic Aerials





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Waukesha County, Wisconsin

Map Legend
 Study Area (4.74 Acres)

RASTER\ORTH02024: SEWRPC, Waukesha County Land Information Office
World Transportation: Esri, HERE, iPC

Figure 4G
2024 Historic Aerials

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0 30 60
1-inch equals 60-feet


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Waukesha County, Wisconsin

- Map Legend
- Study Area (4.74 Acres)
 - Wetland
 - Off-Site Wetland
 - Sampling Point
 - Cursory Point
 - Structure Point

World Imagery: SEWRPC, Maxar, Microsoft
World Transportation: Esri, HERE, iPC

Figure 5
Wetland Boundary Map



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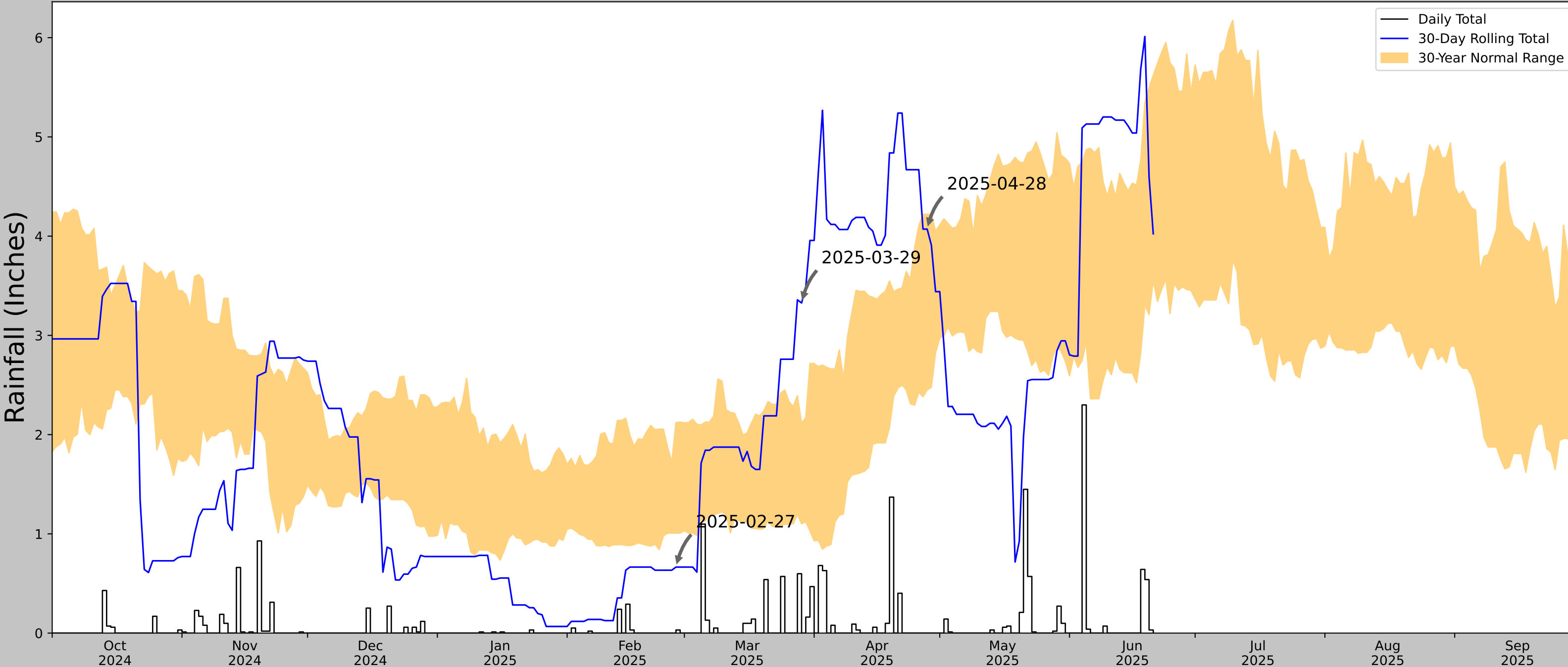
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Appendix A - ATP and Palmer Drought Index Report


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




Coordinates	42.966325, -88.284741
Observation Date	2025-04-28
Elevation (ft)	821.758
Drought Index (PDSI)	Incipient drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-04-28	2.450787	4.220473	4.070866	Normal	2	3	6
2025-03-29	1.101575	2.116536	3.326772	Wet	3	2	6
2025-02-27	1.00748	2.122047	0.665354	Dry	1	1	1
Result							Normal Conditions - 13

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
WAUKESHA WWTP	42.9986, -88.2525	801.837	2.762	19.921	1.298	11253	90
WAUKESHA 2.1 SSW	42.9847, -88.2531	816.929	0.961	15.092	0.447	19	0
WAUKESHA 2.5 SE	42.9851, -88.2052	859.908	2.566	58.071	1.304	1	0
WAUKESHA 1.6 NW	43.0287, -88.2609	967.848	2.123	166.011	1.308	15	0
WAUKESHA 1.6 NW	43.0307, -88.2584	979.003	2.238	177.166	1.404	1	0
WAUKESHA 2.0 NNW	43.036, -88.2596	926.837	2.609	125.0	1.5	7	0
BROOKFIELD WWTP	43.0522, -88.1775	830.053	5.298	28.216	2.534	6	0
W ALLIS	42.9981, -88.0242	772.966	11.537	28.871	5.525	44	0
MT MARY COLLEGE	43.0722, -88.0294	714.895	12.362	86.942	6.638	7	0



US Army Corps
of Engineers®



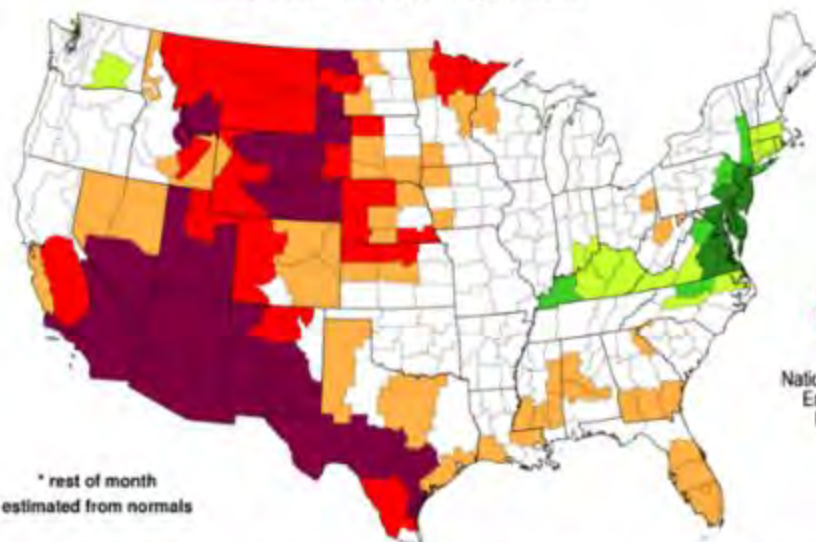
ERDC

Figures and tables made by the
Antecedent Precipitation Tool
Version 2.0

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

Palmer Drought Index Long-Term (Meteorological) Conditions

May 2025: through May 3 2025*



National Centers for
Environmental
Information



Palmer Drought Index Data

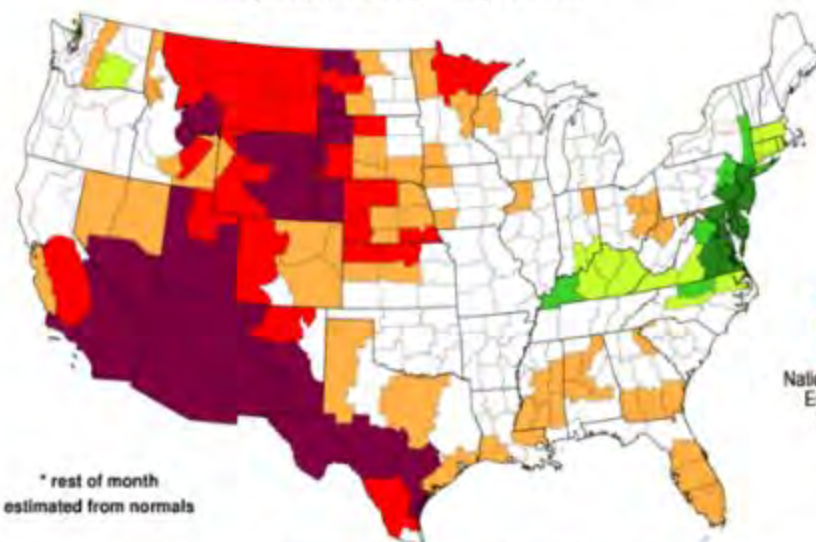
↓ CSV

↓ JSON

↓ XML

Palmer Hydrological Drought Index Long-Term (Hydrological) Conditions

May 2025: through May 3 2025*



National Centers for
Environmental
Information



Palmer Hydrological Drought Index Data

↓ CSV

↓ JSON

↓ XML

Appendix B - Wetland Determination Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
---	--

Project/Site: River Road Lot 2 City/County: City of Waukesha/Waukesha County Sampling Date: 2025-04-28
Applicant/Owner: Bielinski Homes Inc. State: Wisconsin Sampling Point: DP1-WET
Investigator(s): Erica Pergande & TJ Johns Section, Township, Range: S20 T6N R19E
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): A Lat: 42.966325 Long: -88.284741 Datum: WGS 84
Soil Map Unit Name: WeB - Warsaw loam, 2 to 6 percent slopes NWI classification: PFO1/EM1Bg
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>W-3</u>
---	--

Remarks: (Explain alternative procedures here or in a separate report.)

DP is located along the far south edge of the property boundary and is primarily located outside of the study area.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
---	---

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>12</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

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

Saturated at 12"

Remarks:

Saturated at 12".

VEGETATION – Use scientific names of plants.

Sampling Point: DP1-WET

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer negundo</u>	<u>65</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>65</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>120</u></td> <td>x 3 = <u>360</u></td> </tr> <tr> <td>FACU species <u>80</u></td> <td>x 4 = <u>320</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>200</u> (A)</td> <td><u>680</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.40</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>120</u>	x 3 = <u>360</u>	FACU species <u>80</u>	x 4 = <u>320</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>200</u> (A)	<u>680</u> (B)	Prevalence Index = B/A = <u>3.40</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>120</u>	x 3 = <u>360</u>																			
FACU species <u>80</u>	x 4 = <u>320</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>200</u> (A)	<u>680</u> (B)																			
Prevalence Index = B/A = <u>3.40</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Rhamnus cathartica</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>																	
2. <u>Lonicera morrowii</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>30</u>	=Total Cover																		
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Alliaria petiolata</u>	<u>70</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Urtica dioica</u>	<u>35</u>	<input checked="" type="checkbox"/>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>105</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	=Total Cover																		

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

Vegetation passes dominance test.

SOIL

Sampling Point DP1-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 12	7.5YR 2.5/1	100					Sandy Loam	
12 - 24	N 2.5/0	90	10YR 4/6	10	C	M	Mucky Loam/Clay	
24 - 30	10YR 4/1	95	10YR 4/6	5	C	M	Clay	
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ Depleted Below Dark Surface (A11)

☒ Thick Dark Surface (A12)

☐ Iron Monosulfide (A18)

☐ Mesic Spodic (A17)

☐ Sandy Mucky Mineral (S1)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Dark Surface (S7)

☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)

☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)

☐ High Chroma Sands (S11) (LRR K, L)

☐ Loamy Mucky Mineral (F1) (LRR K, L)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

☐ Marl (F10) (LRR K, L)

☐ Red Parent Material (F21) (MLRA 145)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)

☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)

☐ Polyvalue Below Surface (S8) (LRR K, L) Thin

☐ Dark Surface (S9) (LRR K, L)

☐ Iron-Manganese Masses (F12) (LRR K, L, R)

☐ Piedmont Floodplain Soils (F19) (MLRA 149B)

☐ Red Parent Material (F21) (outside MLRA 145)

☐ Very Shallow Dark Surface (F22)

☐ Other (Explain in Remarks)

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric indicator A12-Thick Dark Surface

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
---	--

Project/Site: River Road Lot 2 City/County: City of Waukesha/Waukesha County Sampling Date: 2025-04-28
Applicant/Owner: Bielinski Homes Inc. State: Wisconsin Sampling Point: DP2-UPL
Investigator(s): Erica Pergande & TJ Johns Section, Township, Range: S20 T6N R19E
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): A Lat: 42.96642 Long: -88.284637 Datum: WGS 84
Soil Map Unit Name: WeB - Warsaw loam, 2 to 6 percent slopes NWI classification: PFO1/EM1Bg
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
---	---

Remarks: (Explain alternative procedures here or in a separate report.)
DP is located in an upland shrub community.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
--	--

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

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

Remarks:
No wetland hydrology was observed.

VEGETATION – Use scientific names of plants.

Sampling Point: DP2-UPL

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer negundo</u>	<u>45</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.66</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>95</u></td> <td>x 3 = <u>285</u></td> </tr> <tr> <td>FACU species <u>55</u></td> <td>x 4 = <u>220</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>155</u> (A)</td> <td><u>510</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.29</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>95</u>	x 3 = <u>285</u>	FACU species <u>55</u>	x 4 = <u>220</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>155</u> (A)	<u>510</u> (B)	Prevalence Index = B/A = <u>3.29</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>95</u>	x 3 = <u>285</u>																			
FACU species <u>55</u>	x 4 = <u>220</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>155</u> (A)	<u>510</u> (B)																			
Prevalence Index = B/A = <u>3.29</u>																				
2. <u>Populus deltoides</u>	<u>5</u>		<u>FAC</u>																	
3. <u>Salix nigra</u>	<u>5</u>		<u>OBL</u>																	
4. _____	_____																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
		<u>55</u> =Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Rhamnus cathartica</u>	<u>45</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____																			
3. _____	_____																			
4. _____	_____																			
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
		<u>45</u> =Total Cover																		
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Glechoma hederacea</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																
2. <u>Alliaria petiolata</u>	<u>5</u>		<u>FACU</u>																	
3. <u>Galium aparine</u>	<u>5</u>		<u>FACU</u>																	
4. <u>Hackelia virginiana</u>	<u>5</u>		<u>FACU</u>																	
5. _____	_____																			
6. _____	_____																			
7. _____	_____																			
8. _____	_____																			
9. _____	_____																			
10. _____	_____																			
11. _____	_____																			
12. _____	_____																			
		<u>55</u> =Total Cover																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____																			
2. _____	_____																			
3. _____	_____																			
4. _____	_____																			
		_____ =Total Cover																		

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

Veg passes dominance test.

SOIL

Sampling Point DP2-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 10	7.5YR 2.5/1	100					Loamy Sand	Rock and gravel mixed in
11 - 12	10YR 2/2	100					Loamy Sand	Restricted at 12 rock and gravel fill
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:						Indicators for Problematic Hydric Soils³:		
<input type="checkbox"/> Histosol (A1)		<input type="checkbox"/> Dark Surface (S7)		<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)				
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R,		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> MLRA 149B)		<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) Thin				
<input type="checkbox"/> Hydrogen Sulfide (A4)		<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)		<input type="checkbox"/> Dark Surface (S9) (LRR K, L)				
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)		<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)				
<input type="checkbox"/> Depleted Below Dark Surface (A11)		<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)		<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)				
<input type="checkbox"/> Thick Dark Surface (A12)		<input type="checkbox"/> Loamy Gleyed Matrix (F2)		<input type="checkbox"/> Red Parent Material (F21) (outside MLRA 145)				
<input type="checkbox"/> Iron Monosulfide (A18)		<input type="checkbox"/> Depleted Matrix (F3)		<input type="checkbox"/> Very Shallow Dark Surface (F22)				
<input type="checkbox"/> Mesic Spodic (A17)		<input type="checkbox"/> Redox Dark Surface (F6)		<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> (MLRA 144A, 145, 149B)		<input type="checkbox"/> Depleted Dark Surface (F7)						
<input type="checkbox"/> Sandy Mucky Mineral (S1)		<input type="checkbox"/> Redox Depressions (F8)						
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Marl (F10) (LRR K, L)						
<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Red Parent Material (F21) (MLRA 145)						
<input type="checkbox"/> Stripped Matrix (S6)								

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present?

YesNo

Remarks:

restricted at 12" rock and gravel. Soils are disturbed and do not meet any hydric indicators.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: River Road Lot 2 City/County: City of Waukesha/Waukesha County Sampling Date: 2025-04-28
Applicant/Owner: Bielinski Homes Inc. State: Wisconsin Sampling Point: DP3-UPL
Investigator(s): Erica Pergande & TJ Johns Section, Township, Range: S20 T6N R19E
Landform (hillside, terrace, etc.): Hill Local relief (concave, convex, none): Concave Slope %: 3
Subregion (LRR or MLRA): A Lat: 42.96642 Long: -88.17034 Datum: WGS 84
Soil Map Unit Name: Warsaw loam NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)
Data point is located on an upland hillslope

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ____ Surface Water (A1) ____ Water-Stained Leaves (B9) ____ High Water Table (A2) ____ Aquatic Fauna (B13) ____ Saturation (A3) ____ Marl Deposits (B15) ____ Water Marks (B1) ____ Hydrogen Sulfide Odor (C1) ____ Sediment Deposits (B2) ____ Oxidized Rhizospheres on Living Roots (C3) ____ Drift Deposits (B3) ____ Presence of Reduced Iron (C4) ____ Algal Mat or Crust (B4) ____ Recent Iron Reduction in Tilled Soils (C6) ____ Iron Deposits (B5) ____ Thin Muck Surface (C7) ____ Inundation Visible on Aerial Imagery (B7) ____ Other (Explain in Remarks) ____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> ____ Surface Soil Cracks (B6) ____ Drainage Patterns (B10) ____ Moss Trim Lines (B16) ____ Dry-Season Water Table (C2) ____ Crayfish Burrows (C8) ____ Saturation Visible on Aerial Imagery (C9) ____ Stunted or Stressed Plants (D1) ____ Geomorphic Position (D2) ____ Shallow Aquitard (D3) ____ Microtopographic Relief (D4) ____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology could not be met. DP is located in an upland field.	

VEGETATION – Use scientific names of plants.

 Sampling Point: **DP3-UPL**

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>75</u></td> <td>x 4 = <u>300</u></td> </tr> <tr> <td>UPL species <u>40</u></td> <td>x 5 = <u>200</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>500</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.34</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>75</u>	x 4 = <u>300</u>	UPL species <u>40</u>	x 5 = <u>200</u>	Column Totals: <u>115</u> (A)	<u>500</u> (B)	Prevalence Index = B/A = <u>4.34</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>75</u>	x 4 = <u>300</u>																			
UPL species <u>40</u>	x 5 = <u>200</u>																			
Column Totals: <u>115</u> (A)	<u>500</u> (B)																			
Prevalence Index = B/A = <u>4.34</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Bromus inermis</u>	<u>40</u>	<u>✓</u>	<u>UPL</u>																	
2. <u>Poa pratensis</u>	<u>35</u>	<u>✓</u>	<u>FACU</u>																	
3. <u>Festuca rubra</u>	<u>25</u>	<u>✓</u>	<u>FACU</u>																	
4. <u>Trifolium pratense</u>	<u>10</u>		<u>FACU</u>																	
5. <u>Taraxacum officinale</u>	<u>5</u>		<u>FACU</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>115</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
=Total Cover				Hydrophytic Vegetation Present? Yes <u> </u> No <u>✓</u>																

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

Upland vegetation is dominant.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 13	10YR 3/3	100					Silt Loam	
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.
²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Iron Monosulfide (A18) <input type="checkbox"/> Mesic Spodic (A17) (MLRA 144A, 145, 149B) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR K, L) <input type="checkbox"/> Red Parent Material (F21) (MLRA 145)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) Thin <input type="checkbox"/> Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Red Parent Material (F21) (outside MLRA 145) <input type="checkbox"/> Very Shallow Dark Surface (F22) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: <u>rock</u> Depth (inches): <u>12</u>	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

Soils did not meet any hydric criteria indicators.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: River Road Lot 2 City/County: City of Waukesha/Waukesha County Sampling Date: 2025-04-28
Applicant/Owner: Bielinski Homes Inc. State: Wisconsin Sampling Point: DP4-WET
Investigator(s): Erica Pergande & TJ Johns Section, Township, Range: S20 T6N R19E
Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): L 95 Lat: 42.966588 Long: -88.284358 Datum: WGS 84
Soil Map Unit Name: WeB - Warsaw loam, 2 to 6 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ☒ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ☒
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W-1</u>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)
Excavated swale

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>12</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Saturation at the surface. Remarks: Wetland hydrology is met.	

VEGETATION – Use scientific names of plants.

 Sampling Point: **DP4-WET**

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.66</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>80</u></td> <td>x 2 = <u>160</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>20</u></td> <td>x 4 = <u>80</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>130</u> (A)</td> <td><u>330</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.53</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>80</u>	x 2 = <u>160</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>20</u>	x 4 = <u>80</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>130</u> (A)	<u>330</u> (B)	Prevalence Index = B/A = <u>2.53</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>80</u>	x 2 = <u>160</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>20</u>	x 4 = <u>80</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>130</u> (A)	<u>330</u> (B)																			
Prevalence Index = B/A = <u>2.53</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Apocynum cannabinum</u>	<u>30</u>	<u>✓</u>	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phalaris arundinacea</u>	<u>80</u>	<u>✓</u>	<u>FACW</u>																	
2. <u>Poa pratensis</u>	<u>20</u>	<u>✓</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
=Total Cover																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
✓ 2 - Dominance Test is >50%
✓ 3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

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

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

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

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

Hydrophytic Vegetation Present? Yes ✓ No

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

Vegetation meets hydric criteria.

SOIL

Sampling Point **DP4-WET****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 4	10YR 3/2	100					Sand	sand, gravel, rocks mix
2 - 16	N 2.5/0	95	10YR 5/8	5	C	M	Clay Loam	
17 - 24	N 2.5/0	20	10YR 5/8	10	C	M	Clay Loam	
17 - 24	10YR 4/2	70					Clay Loam	
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Iron Monosulfide (A18)
☐ Mesic Spodic (A17)
(MLRA 144A, 145, 149B)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7)
☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
☐ High Chroma Sands (S11) (**LRR K, L**)
☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (**LRR K, L**)
☐ Red Parent Material (F21) (**MLRA 145**)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
☐ Polyvalue Below Surface (S8) (**LRR K, L**) Thin
☐ Dark Surface (S9) (**LRR K, L**)
☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
☐ Red Parent Material (F21) (**outside MLRA 145**)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet F6-Redox Dark Surface.

<div>U.S. Army Corps of Engineers</div> <div>WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region</div> <div>See ERDC/EL TR-12-1; the proponent agency is CECW-COR</div>	<div>OMB Control #: 0710-0024, Exp: 09/30/2027</div> <div>Requirement Control Symbol EXEMPT:</div> <div>(Authority: AR 335-15, paragraph 5-2a)</div>
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Project/Site: <u>River Road Lot 2</u>	City/County: <u>City of Waukesha/Waukesha County</u>	Sampling Date: <u>2025-04-28</u>
Applicant/Owner: <u>Bielinski Homes Inc.</u>	State: <u>Wisconsin</u>	Sampling Point: <u>DP5-UPL</u>
Investigator(s): <u>Erica Pergande & TJ Johns</u>	Section, Township, Range: <u>S20 T6N R19E</u>	
Landform (hillside, terrace, etc.): <u>Berm</u>	Local relief (concave, convex, none): <u>Convex</u>	Slope %: <u>0-2</u>
Subregion (LRR or MLRA): <u>A</u>	Lat: <u>42.966626</u>	Long: <u>-88.284416</u>
Soil Map Unit Name: <u>WeB - Warsaw loam, 2 to 6 percent slopes</u>	Datum: <u>WGS 84</u>	
Soil NWI classification: _____		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No <u>✓</u> (If no, explain in Remarks.)		
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No <u>✓</u>		
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)		

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

Hydrophytic Vegetation Present? Yes _____ No <u>✓</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>✓</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>✓</u>	
Wetland Hydrology Present? Yes _____ No <u>✓</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	
DP 5-UPL is located in between 2 artificial wetland scrapes/detention areas. Upland berm.	

HYDROLOGY

<div>Wetland Hydrology Indicators:</div> <div>Primary Indicators (minimum of one is required; check all that apply)</div> <div><div><div><div><input type="checkbox"/> Surface Water (A1)</div><div><input type="checkbox"/> High Water Table (A2)</div><div><input type="checkbox"/> Saturation (A3)</div><div><input type="checkbox"/> Water Marks (B1)</div><div><input type="checkbox"/> Sediment Deposits (B2)</div><div><input type="checkbox"/> Drift Deposits (B3)</div><div><input type="checkbox"/> Algal Mat or Crust (B4)</div><div><input type="checkbox"/> Iron Deposits (B5)</div><div><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</div><div><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</div></div><div><div><input type="checkbox"/> Water-Stained Leaves (B9)</div><div><input type="checkbox"/> Aquatic Fauna (B13)</div><div><input type="checkbox"/> Marl Deposits (B15)</div><div><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</div><div><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</div><div><input type="checkbox"/> Presence of Reduced Iron (C4)</div><div><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</div><div><input type="checkbox"/> Thin Muck Surface (C7)</div><div><input type="checkbox"/> Other (Explain in Remarks)</div></div></div></div>	<div>Secondary Indicators (minimum of two required)</div> <div><div><div><input type="checkbox"/> Surface Soil Cracks (B6)</div><div><input type="checkbox"/> Drainage Patterns (B10)</div><div><input type="checkbox"/> Moss Trim Lines (B16)</div><div><input type="checkbox"/> Dry-Season Water Table (C2)</div><div><input type="checkbox"/> Crayfish Burrows (C8)</div><div><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</div><div><input type="checkbox"/> Stunted or Stressed Plants (D1)</div><div><input type="checkbox"/> Geomorphic Position (D2)</div><div><input type="checkbox"/> Shallow Aquitard (D3)</div><div><input type="checkbox"/> Microtopographic Relief (D4)</div><div><input type="checkbox"/> FAC-Neutral Test (D5)</div></div></div>
<div>Field Observations:</div> <div><div><div><div>Surface Water Present? Yes _____ No <u>✓</u></div><div>Water Table Present? Yes _____ No <u>✓</u></div><div>Saturation Present? Yes _____ No <u>✓</u></div><div>(includes capillary fringe)</div></div><div><div>Depth (inches): _____</div><div>Depth (inches): _____</div><div>Depth (inches): _____</div></div></div></div>	<div>Wetland Hydrology Present? Yes _____ No <u>✓</u></div>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: **DP5-UPL**

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>60</u></td> <td>x 2 = <u>120</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL species <u>30</u></td> <td>x 5 = <u>150</u></td> </tr> <tr> <td>Column Totals: <u>130</u> (A)</td> <td><u>415</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.19</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>60</u>	x 2 = <u>120</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>25</u>	x 4 = <u>100</u>	UPL species <u>30</u>	x 5 = <u>150</u>	Column Totals: <u>130</u> (A)	<u>415</u> (B)	Prevalence Index = B/A = <u>3.19</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>60</u>	x 2 = <u>120</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>25</u>	x 4 = <u>100</u>																			
UPL species <u>30</u>	x 5 = <u>150</u>																			
Column Totals: <u>130</u> (A)	<u>415</u> (B)																			
Prevalence Index = B/A = <u>3.19</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
=Total Cover																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phalaris arundinacea</u>	<u>60</u>	<u>✓</u>	<u>FACW</u>																	
2. <u>Bromus inermis</u>	<u>30</u>	<u>✓</u>	<u>UPL</u>																	
3. <u>Poa pratensis</u>	<u>25</u>		<u>FACU</u>																	
4. <u>Barbarea vulgaris</u>	<u>15</u>		<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>130</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
=Total Cover																				
Hydrophytic Vegetation Present? Yes <u> </u> No <u>✓</u>																				

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

SOIL

Sampling Point **DP5-UPL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 10	10YR 2/1	100					Sandy Clay Loam	
11 - 24	N 2.5/0	70					Clay Loam	
11 - 24	10YR 4/2	30					Clay Loam	
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Iron Monosulfide (A18) <input type="checkbox"/> Mesic Spodic (A17) (MLRA 144A, 145, 149B) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Marl (F10) (LRR K, L) <input type="checkbox"/> Red Parent Material (F21) (MLRA 145)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) Thin <input type="checkbox"/> Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Red Parent Material (F21) (outside MLRA 145) <input type="checkbox"/> Very Shallow Dark Surface (F22) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
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Remarks:

Soils do not meet any hydric indicators.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: River Road Lot 2 City/County: City of Waukesha/Waukesha County Sampling Date: 2025-04-28
Applicant/Owner: Bielinski Homes Inc. State: Wisconsin Sampling Point: DP6-WET
Investigator(s): Erica Pergande & TJ Johns Section, Township, Range: S20 T6N R19E
Landform (hillside, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): A Lat: 42.966674 Long: -88.284451 Datum: WGS 84
Soil Map Unit Name: WeB - Warsaw loam, 2 to 6 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ☒ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ☒
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W-2</u>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

Data point is located in an excavated depression (potentially for stormwater purposes) dominated by rcg. Standing water was observed adjacent to the data point.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>12</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Wetland hydrology is observed.	

VEGETATION – Use scientific names of plants.

 Sampling Point: **DP6-WET**

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>90</u></td> <td>x 2 = <u>180</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>90</u> (A)</td> <td><u>180</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>90</u>	x 2 = <u>180</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>90</u> (A)	<u>180</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>90</u>	x 2 = <u>180</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>90</u> (A)	<u>180</u> (B)																			
Prevalence Index = B/A = <u>2.00</u>																				
=Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Phalaris arundinacea</u>	<u>80</u>	<u>✓</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Carex scoparia</u>	<u>10</u>		<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>90</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				

Definitions of Vegetation Strata:

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

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

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

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

Hydrophytic Vegetation Present? Yes ✓ No _____

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

Wetland vegetation is dominant.

SOIL

Sampling Point **DP6-WET****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 4	10YR 3/2	100					Sand	sand, gravel, rocks mix
2 - 16	N 2.5/0	95	10YR 5/8	5	C	M	Clay Loam	
17 - 24	N 2.5/0	20	10YR 5/8	10	C	M	Clay Loam	
17 - 24	10YR 4/2	70					Clay Loam	
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Dark Surface (S7) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Iron Monosulfide (A18) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Mesic Spodic (A17) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| (MLRA 144A, 145, 149B) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Marl (F10) (LRR K, L) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Red Parent Material (F21) (MLRA 145) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
☐ Polyvalue Below Surface (S8) (**LRR K, L**) Thin
☐ Dark Surface (S9) (**LRR K, L**)
☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
☐ Red Parent Material (F21) (**outside MLRA 145**)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soils meet hydric indicator F6-Redox Dark Surface.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: River Road Lot 2 City/County: City of Waukesha/Waukesha County Sampling Date: 2025-04-28
Applicant/Owner: Bielinski Homes Inc. State: Wisconsin Sampling Point: DP7-UPL
Investigator(s): Erica Pergande & TJ Johns Section, Township, Range: S20 T6N R19E
Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope %: 0-2
Subregion (LRR or MLRA): L 95 Lat: 42.96605 Long: -88.285196 Datum: WGS 84
Soil Map Unit Name: Warsaw loam, 2 to 6 percent slopes NWI classification: _____
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation ☒, Soil ☒, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)
Restrictive layer at 6" rock and gravel fill

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ____ Surface Water (A1) ____ Water-Stained Leaves (B9) ____ High Water Table (A2) ____ Aquatic Fauna (B13) ____ Saturation (A3) ____ Marl Deposits (B15) ____ Water Marks (B1) ____ Hydrogen Sulfide Odor (C1) ____ Sediment Deposits (B2) ____ Oxidized Rhizospheres on Living Roots (C3) ____ Drift Deposits (B3) ____ Presence of Reduced Iron (C4) ____ Algal Mat or Crust (B4) ____ Recent Iron Reduction in Tilled Soils (C6) ____ Iron Deposits (B5) ____ Thin Muck Surface (C7) ____ Inundation Visible on Aerial Imagery (B7) ____ Other (Explain in Remarks) ____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> ____ Surface Soil Cracks (B6) ____ Drainage Patterns (B10) ____ Moss Trim Lines (B16) ____ Dry-Season Water Table (C2) ____ Crayfish Burrows (C8) ____ Saturation Visible on Aerial Imagery (C9) ____ Stunted or Stressed Plants (D1) ____ Geomorphic Position (D2) ____ Shallow Aquitard (D3) ____ Microtopographic Relief (D4) ____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: DP7-UPL

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer negundo</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>15</u>	<u>=Total Cover</u>																		
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. <u>Rhamnus cathartica</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>40</u></td> <td>x 4 = <u>160</u></td> </tr> <tr> <td>UPL species <u>30</u></td> <td>x 5 = <u>150</u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>475</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.51</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>40</u>	x 4 = <u>160</u>	UPL species <u>30</u>	x 5 = <u>150</u>	Column Totals: <u>135</u> (A)	<u>475</u> (B)	Prevalence Index = B/A = <u>3.51</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>30</u>	x 2 = <u>60</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>40</u>	x 4 = <u>160</u>																			
UPL species <u>30</u>	x 5 = <u>150</u>																			
Column Totals: <u>135</u> (A)	<u>475</u> (B)																			
Prevalence Index = B/A = <u>3.51</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>20</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Leonurus cardiaca</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Phalaris arundinacea</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FACW</u>																	
3. <u>Cirsium arvense</u>	<u>20</u>	_____	<u>FACU</u>																	
4. <u>Nepeta cataria</u>	<u>10</u>	_____	<u>FACU</u>																	
5. <u>Arctium minus</u>	<u>5</u>	_____	<u>FACU</u>																	
6. <u>Galium aparine</u>	<u>5</u>	_____	<u>FACU</u>																	
7. <u>Pastinaca sativa</u>	<u>5</u>	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>105</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

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

Veg passes dominance test with creeping rcg.

SOIL

Sampling Point DP7-UPL**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 6	10YR 2/2	100					Sandy Loam	
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Dark Surface (S7) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> High Chroma Sands (S11) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Iron Monosulfide (A18) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Mesic Spodic (A17) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| (MLRA 144A, 145, 149B) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Marl (F10) (LRR K, L) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Red Parent Material (F21) (MLRA 145) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**) Thin
- ☐ Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Red Parent Material (F21) (**outside MLRA 145**)
- ☐ Very Shallow Dark Surface (F22)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):Type: Rock and gravelDepth (inches): 6Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils are fill and do not meet any hydric indicators.

Appendix C - Site Photographs

Site Photos



Photo 1: DP 1 facing south toward offsite wetland (W-3)



Wetland boundary flag (pink) facing DP1-WET (orange flag)

Site Photos



Photo 2:DP2-UPL



Photo 3:DP2-UPL

Site Photos



Photo 4: DP4-WET



Photo 5: Shrub line on south side

Site Photos



Photo 6: W-1



Photo 7: W-2 DP6-WET

Site Photos



Photo 8: Bem between W-2 and W-2 facing south



Photo 9: W-3 on far south edge

Site Photos



Photo 10: Fallow area of site facing west from access road



Photo 11: Upland facing east

Site Photos



Photo 12: DP7-UPL



Photo 13:DP7-UPL facing south

Site Photos



Photo 14:W-3 facing south

Appendix D -

Assured Wetland Delineator 2025 Confirmation Letter



April 1, 2025

Erica Pergande, PWS
raSmith
16745 West Bluemound Road
Brookfield, WI 53005

Subject: 2025 Assured Wetland Delineator Confirmation

Dear Erica Pergande:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2025 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: <http://dnr.wi.gov/topic/wetlands/assurance.html>.

In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

To comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate in which system the data are projected. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.). Please send these data to Calvin Lawrence (608-266-0756 or email at calvin.lawrence@wisconsin.gov).

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

Kara Brooks
Wetland Identification Coordinator
Bureau of Watershed Management

Appendix E - Wetland Delineation Confirmation Request Checklist

Wetland Delineation Confirmation Request Check List

WDNR Wetland Identification Program

The following is the preferred order for all information provided in wetland delineation reports submitted for wetland confirmation. Please include this completed checklist with all wetland delineation report submittals. All of the following must be included with all wetland delineation reports that are submitted for confirmation:

- ☒ **Basic Report Components** (check to make sure these are in the report)
- ☒ **Introductory Section**
 - Why the delineation was undertaken
 - Date the field work was completed
 - Who conducted field work
 - Qualifications
- ☒ **Methods used during the wetland delineation**
 - Description of methods
 - Sources Reviewed (WWI mapping, Soil Survey, etc.)
 - Description of any site specific agency guidance (site meetings, etc.)
- ☒ **Results and Discussion**
 - Antecedent hydrologic condition analysis
 - Previous wetland delineation mapping
 - Existing environmental mapping (WWI mapping, Soil survey, etc.)
 - Amount and types of wetland located within the project area
 - Discussion explaining how the wetland/upland boundary was differentiated
 - Disturbed and problematic areas encountered during the delineation
 - Other water resources located in the project area (navigable streams, etc.)
- ☒ **Topographic mapping** (Include map scale, clearly identified review area, a north arrow)
- ☒ **WWI mapping** (Include map scale, clearly identified review area, a north arrow)
- ☒ **Soil Survey mapping** (Include map scale, clearly identified review area, a north arrow)
- ☒ **Wetland Delineation Map** showing an accurate depiction of wetland boundaries and data points identified during field investigation (Include map scale, clearly identified review area, a north arrow)
- ☒ Complete, legible wetland delineation **data forms** from the appropriate regional supplement
- ☒ **Site photos**
- ☒ Any previous delineation information
- ☒ **Areas that are currently, or were recently (less than three years prior to the delineation) under agricultural production must include a Farm Service Agency (FSA) Slide Review.** All FSA Slide Reviews should include the following:
 - Copies or photos of slides if available
 - A completed wetland documentation form (NRCS form NRCS-CPA-32W)
 - A copy of the draft NRCS Wetland Inventory map if available
- ☒ **Literature Cited**