

# APPENDIX BIO

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## BIOLOGICAL RESOURCE DOCUMENTS

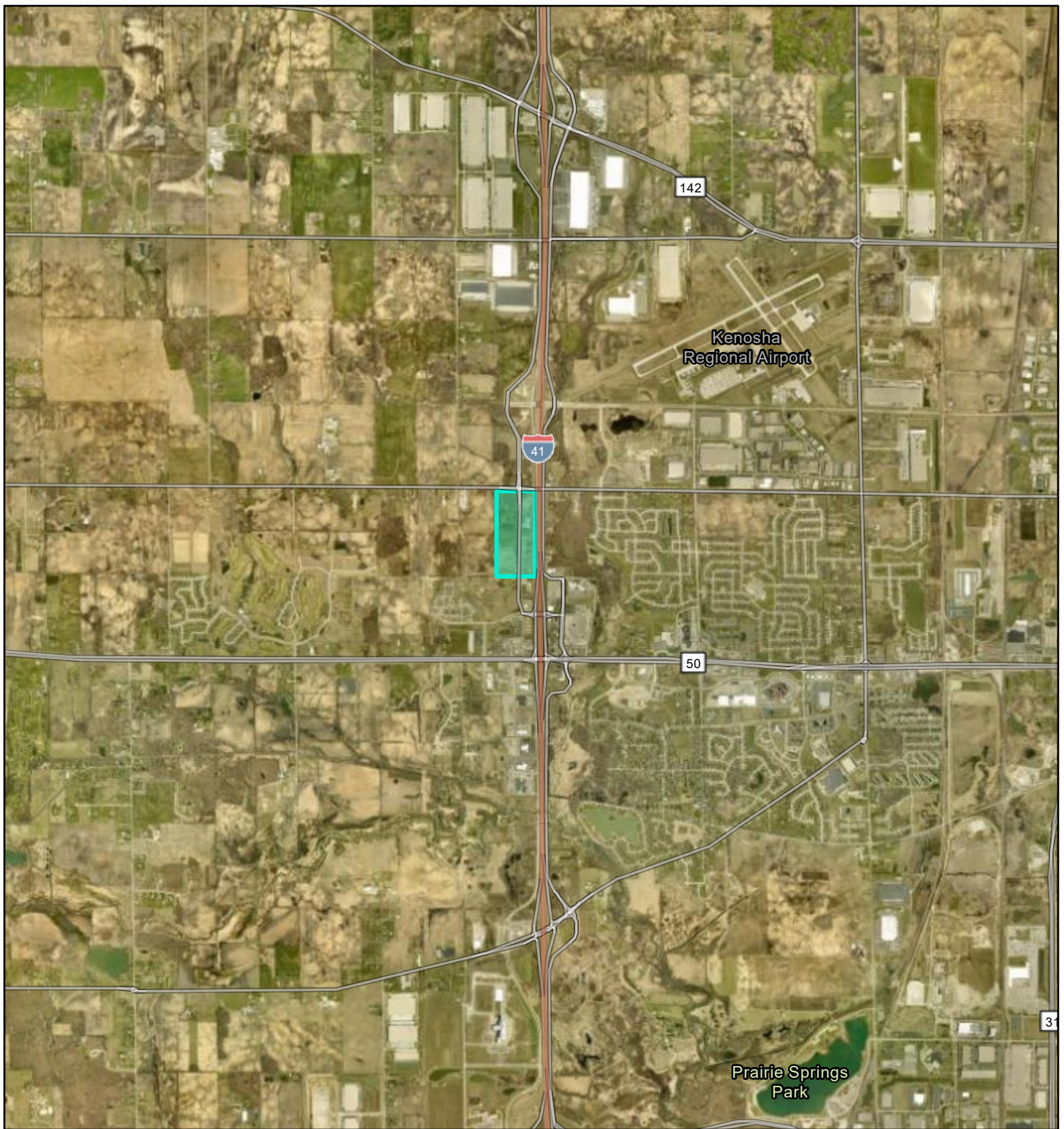
The 66.33-acre biological resources study area described in the Wetland Delineation Report and the Endangered Resources Habitat Screening includes the Project site plus a buffer around the Project site perimeter.

# ***APPENDIX BIO-1***

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***USFWS CRITICAL HABITAT & OFFICIAL SPECIES LISTS***

# Critical Habitat for Threatened & Endangered Species [USFWS]



8/21/2024

1:73,042

World Imagery

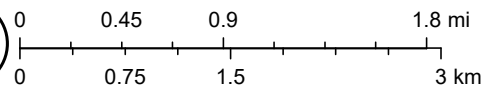
Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

19m Resolution Metadata



SEWRPC, Earthstar Geographics, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Minnesota-Wisconsin Ecological Services Field Office  
3815 American Blvd East  
Bloomington, MN 55425-1659  
Phone: (952) 858-0793

In Reply Refer To:

08/13/2024 23:36:05 UTC

Project Code: 2024-0130077

Project Name: Menominee Casino Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

This response has been generated by the Information, Planning, and Conservation (IPaC) system to provide information on natural resources that could be affected by your project. The U.S. Fish and Wildlife Service (Service) provides this response under the authority of the Endangered Species Act of 1973 (16 U.S.C. 1531-1543), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d), the Migratory Bird Treaty Act (16 U.S.C. 703-712), and the Fish and Wildlife Coordination Act (16 U.S.C. 661 *et seq.*).

### **Threatened and Endangered Species**

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

### **Consultation Technical Assistance**

Please refer to our [Section 7 website](#) for guidance and technical assistance, including [step-by-step instructions](#) for making effects determinations for each species that might be present and for specific guidance on the following types of projects: projects in developed areas, HUD, CDBG, EDA, USDA Rural Development projects, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

We recommend running the project (if it qualifies) through our **Minnesota-Wisconsin Federal Endangered Species Determination Key (Minnesota-Wisconsin ("D-key"))**. A [demonstration video](#) showing how-to access and use the determination key is available. Please note that the Minnesota-Wisconsin D-key is the third option of 3 available d-keys. D-keys are tools to help Federal agencies and other project proponents determine if their proposed action has the potential to adversely affect federally listed species and designated critical habitat. The Minnesota-Wisconsin D-key includes a structured set of questions that assists a project proponent in determining whether a proposed project qualifies for a certain predetermined consultation outcome for all federally listed species found in Minnesota and Wisconsin (except for the northern long-eared bat- see below), which includes determinations of “no effect” or “may affect, not likely to adversely affect.” In each case, the Service has compiled and analyzed the best available information on the species’ biology and the impacts of certain activities to support these determinations.

If your completed d-key output letter shows a "No Effect" (NE) determination for all listed species, print your IPaC output letter for your files to document your compliance with the Endangered Species Act.

For Federal projects with a “Not Likely to Adversely Affect” (NLAA) determination, our concurrence becomes valid if you do not hear otherwise from us after a 30-day review period, as indicated in your letter.

If your d-key output letter indicates additional coordination with the Minnesota-Wisconsin Ecological Services Field Office is necessary (i.e., you get a “May Affect” determination), you will be provided additional guidance on contacting the Service to continue ESA coordination outside of the key; ESA compliance cannot be concluded using the key for “May Affect” determinations unless otherwise indicated in your output letter.

**Note: Once you obtain your official species list, you are not required to continue in IPaC with d-keys, although in most cases these tools should expedite your review.** If you choose to make an effects determination on your own, you may do so. If the project is a Federal Action, you may want to review our section 7 step-by-step instructions before making your determinations.

### **Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species**

1. If IPaC returns a result of “There are no listed species found within the vicinity of the project,” then project proponents can conclude the proposed activities will have **no effect** on any federally listed species under Service jurisdiction. Concurrence from the Service is not required for **no effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.
2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project – other than bats (see below) – then project proponents must determine if proposed activities will have **no effect** on or **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain [Life History Information for Listed and Candidate Species](#) on our office website. If no impacts will occur to a species on the IPaC species list (e.g., there is no habitat present in the project area), the appropriate determination is **no effect**. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.

3. Should you determine that project activities **may affect** any federally listed, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

### **Northern Long-Eared Bats**

Northern long-eared bats occur throughout Minnesota and Wisconsin and the information below may help in determining if your project may affect these species.

This species hibernates in caves or mines only during the winter. In Minnesota and Wisconsin, the hibernation season is considered to be November 15 to March 31. During the active season (April 1 to November 14) they roost in forest and woodland habitats. Suitable summer habitat for northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags  $\geq 3$  inches dbh for northern long-eared bat that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, northern long-eared bats could be affected.

Examples of unsuitable habitat include:

- Individual trees that are greater than 1,000 feet from forested or wooded areas,
- Trees found in highly developed urban areas (e.g., street trees, downtown areas),
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees, and
- A monoculture stand of shrubby vegetation with no potential roost trees.

If IPaC returns a result that northern long-eared bats are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** this species **IF** one or more of the following activities are proposed:

- Clearing or disturbing suitable roosting habitat, as defined above, at any time of year,
- Any activity in or near the entrance to a cave or mine,
- Mining, deep excavation, or underground work within 0.25 miles of a cave or mine,
- Construction of one or more wind turbines, or
- Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

*If none of the above activities are proposed*, project proponents can conclude the proposed activities will have **no effect** on the northern long-eared bat. Concurrence from the Service is not required for **No**

**Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.

*If any of the above activities are proposed*, and the northern long-eared bat appears on the user's species list, the federal project user will be directed to either the range-wide northern long-eared bat D-key or the Federal Highways Administration, Federal Railways Administration, and Federal Transit Administration Indiana bat/ Northern long-eared bat D-key, depending on the type of project and federal agency involvement. Similar to the Minnesota-Wisconsin D-key, these d-keys helps to determine if prohibited take might occur and, if not, will generate an automated verification letter. Additional information about available tools can be found on the Service's [northern long-eared bat website](#).

### **Whooping Crane**

Whooping crane is designated as a non-essential experimental population in Wisconsin and consultation under Section 7(a)(2) of the Endangered Species Act is only required if project activities will occur within a National Wildlife Refuge or National Park. If project activities are proposed on lands outside of a National Wildlife Refuge or National Park, then you are not required to consult. For additional information on this designation and consultation requirements, please review "[Establishment of a Nonessential Experimental Population of Whooping Cranes in the Eastern United States](#)."

### **Other Trust Resources and Activities**

*Bald and Golden Eagles* - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. It is the responsibility of the project proponent to survey the area for any migratory bird nests. If there is an eagle nest on-site while work is on-going, eagles may be disturbed. We recommend avoiding and minimizing disturbance to eagles whenever practicable. If you cannot avoid eagle disturbance, you may seek a [permit](#). A [nest take permit](#) is always required for removal, relocation, or obstruction of an eagle nest. For communication and wind energy projects, please refer to additional guidelines below.

*Migratory Birds* - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA to proactively prevent the mortality of migratory birds whenever possible and we encourage implementation of [recommendations that minimize potential impacts to migratory birds](#). Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

*Communication Towers* - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed [voluntary guidelines for minimizing impacts](#).

*Transmission Lines* - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to [guidelines](#) developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to

wetlands or other areas that support large numbers of raptors and migratory birds.

*Wind Energy* - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's [Wind Energy Guidelines](#). In addition, please refer to the Service's [Eagle Conservation Plan Guidance](#), which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

### **State Department of Natural Resources Coordination**

While it is not required for your Federal section 7 consultation, please note that additional state endangered or threatened species may also have the potential to be impacted. Please contact the Minnesota or Wisconsin Department of Natural Resources for information on state listed species that may be present in your proposed project area.

#### *Minnesota*

[Minnesota Department of Natural Resources - Endangered Resources Review Homepage](#)

Email: [Review.NHIS@state.mn.us](mailto:Review.NHIS@state.mn.us)

#### *Wisconsin*

[Wisconsin Department of Natural Resources - Endangered Resources Review Homepage](#)

Email: [DNRRERReview@wi.gov](mailto:DNRRERReview@wi.gov)

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

#### Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### **Minnesota-Wisconsin Ecological Services Field Office**

3815 American Blvd East

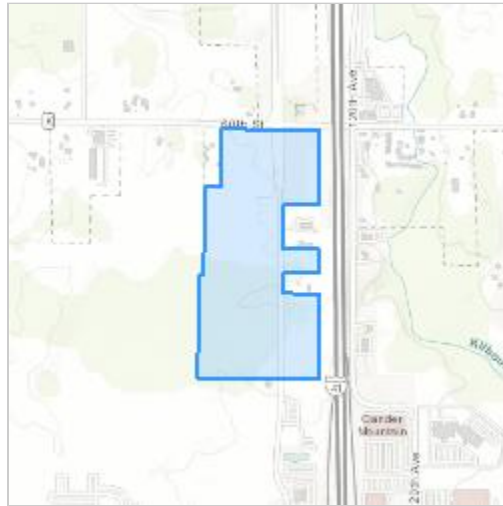
Bloomington, MN 55425-1659

(952) 858-0793

## PROJECT SUMMARY

Project Code: 2024-0130077  
Project Name: Menominee Casino Project  
Project Type: Commercial Development  
Project Description: Casino Project - Commercial  
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@42.57854605,-87.95580457590114,14z>



Counties: Kenosha County, Wisconsin

## ENDANGERED SPECIES ACT SPECIES

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

**BIRDS**

NAME	STATUS
Whooping Crane <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>	Experimental Population, Non-Essential

**INSECTS**

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate
Western Regal Fritillary <i>Argynnis idalia occidentalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/12017">https://ecos.fws.gov/ecp/species/12017</a>	Proposed Threatened

**FLOWERING PLANTS**

NAME	STATUS
Eastern Prairie Fringed Orchid <i>Platanthera leucophaea</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/601">https://ecos.fws.gov/ecp/species/601</a>	Threatened

**CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

**USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES**

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

# BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

- 
1. The [Bald and Golden Eagle Protection Act](#) of 1940.
  2. The [Migratory Birds Treaty Act](#) of 1918.
  3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Oct 15 to Aug 31

## PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

### Breeding Season (■)

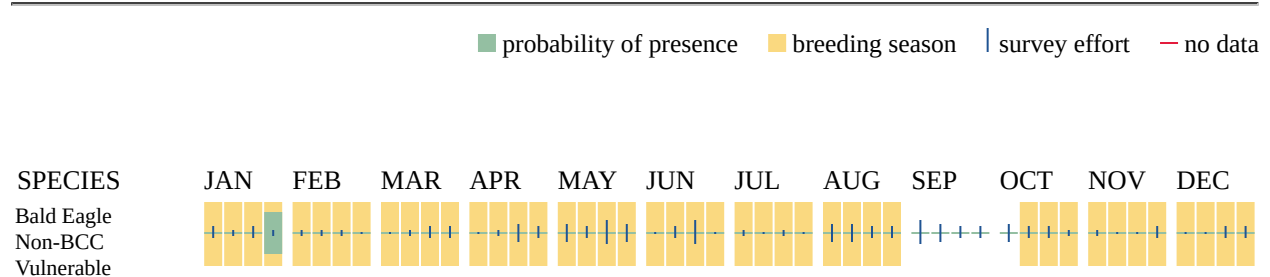
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

**Survey Effort (|)**

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

**No Data (-)**

A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

## MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

- 
1. The [Migratory Birds Treaty Act](#) of 1918.
  2. The [Bald and Golden Eagle Protection Act](#) of 1940.
  3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p>American Golden-plover <i>Pluvialis dominica</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/10561">https://ecos.fws.gov/ecp/species/10561</a></p>	Breeds elsewhere
<p>Bald Eagle <i>Haliaeetus leucocephalus</i>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a></p>	Breeds Oct 15 to Aug 31
<p>Bobolink <i>Dolichonyx oryzivorus</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9454">https://ecos.fws.gov/ecp/species/9454</a></p>	Breeds May 20 to Jul 31
<p>Cerulean Warbler <i>Setophaga cerulea</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/2974">https://ecos.fws.gov/ecp/species/2974</a></p>	Breeds Apr 21 to Jul 20
<p>Chimney Swift <i>Chaetura pelagica</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9406">https://ecos.fws.gov/ecp/species/9406</a></p>	Breeds Mar 15 to Aug 25
<p>Grasshopper Sparrow <i>Ammodramus savannarum perpallidus</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/8329">https://ecos.fws.gov/ecp/species/8329</a></p>	Breeds Jun 1 to Aug 20
<p>Lesser Yellowlegs <i>Tringa flavipes</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a></p>	Breeds elsewhere
<p>Pectoral Sandpiper <i>Calidris melanotos</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9561">https://ecos.fws.gov/ecp/species/9561</a></p>	Breeds elsewhere
<p>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9398">https://ecos.fws.gov/ecp/species/9398</a></p>	Breeds May 10 to Sep 10

NAME	BREEDING SEASON
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/9478">https://ecos.fws.gov/ecp/species/9478</a>	Breeds elsewhere
Semipalmated Sandpiper <i>Calidris pusilla</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/9603">https://ecos.fws.gov/ecp/species/9603</a>	Breeds elsewhere
Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9480">https://ecos.fws.gov/ecp/species/9480</a>	Breeds elsewhere
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9431">https://ecos.fws.gov/ecp/species/9431</a>	Breeds May 10 to Aug 31

## PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

### Breeding Season (■)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

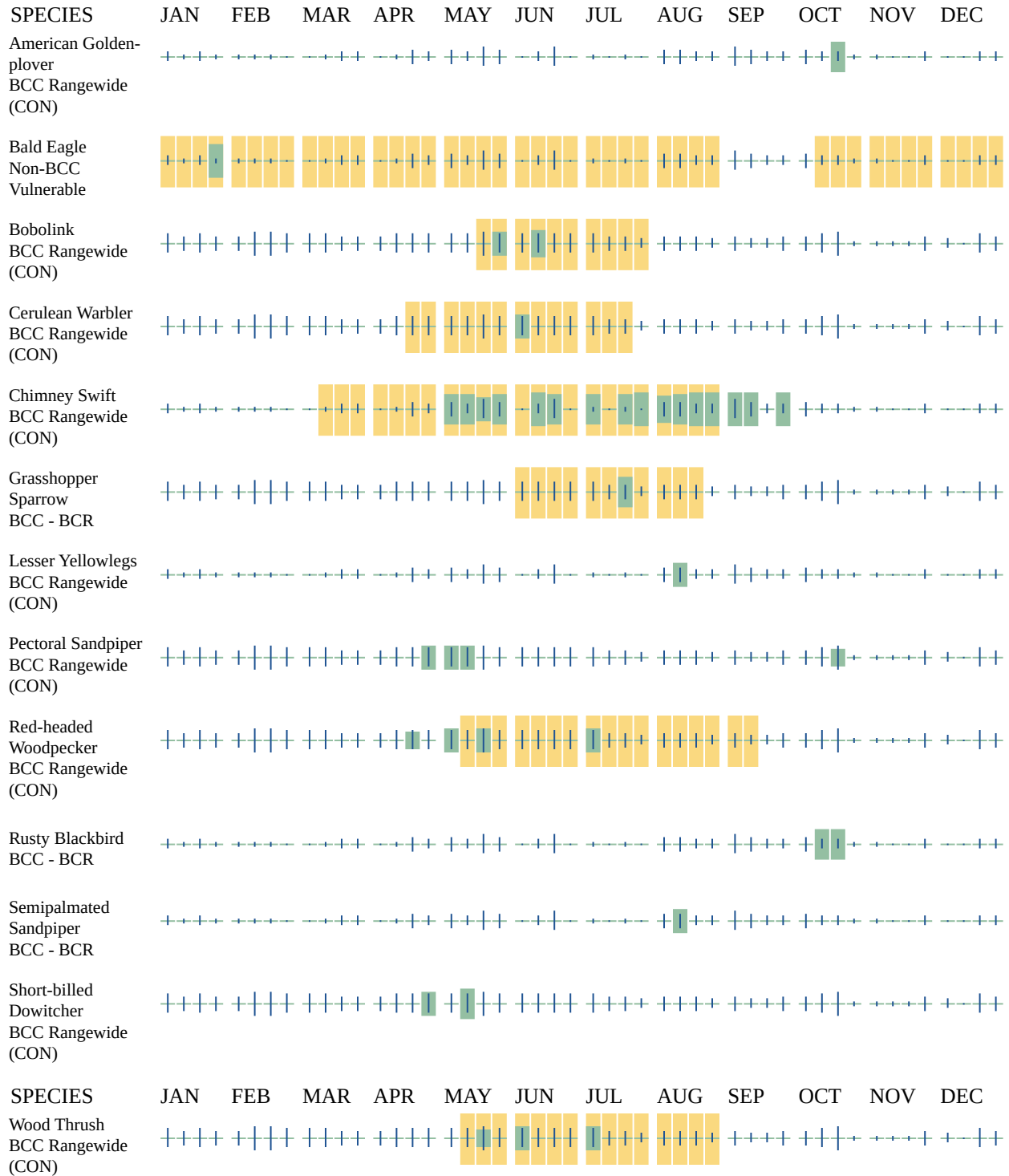
### Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

### No Data (—)

A week is marked as having no data if there were no survey events for that week.

■ probability of presence   ■ breeding season   | survey effort   — no data



Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>

- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

## WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

### FRESHWATER EMERGENT WETLAND

- PEM1C

### FRESHWATER POND

- PUSC

## **IPAC USER CONTACT INFORMATION**

Agency: Menominee Indian Tribe of Wisconsin

Name: Cedrick Villasenor

Address: 1801 7th Street, Suite 100

City: Sacramento

State: CA

Zip: 95811

Email: cvillasenor@montrose-env.com

Phone: 9164473479

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Bureau of Indian Affairs

# ***APPENDIX BIO-2***

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***ENDANGERED RESOURCES HABITAT SCREENING***

# Heartland

ECOLOGICAL GROUP INC

506 Springdale Street, Mount Horeb, WI 53572

August 19, 2024

Randa Horton  
Montrose Environmental Solutions  
1801 7<sup>th</sup> Street, Suite 100  
Sacramento, CA 95811  
randahorton@montrose-env.com  
505-205-9469

**RE: Endangered Resources Habitat Screening, 60<sup>th</sup> Street and 122<sup>nd</sup> Avenue  
Parcels, City of Kenosha, Kenosha County, WI**

Dear Ms. Horton:

Heartland Ecological Group (Heartland) requested, and received, an endangered resources review verification form prepared by the Wisconsin DNR (WDNR) stating no suitable habitat is present for threatened or endangered (or special concern) species within the subject Property. Furthermore, the attached email correspondence with the WDNR reviewer indicates that the northern long eared bat (NLEB) was considered as part of this review and the NLEB did not come up within the WDNR's records within 2 miles of the project boundary.

Heartland also completed a wetland delineation and habitat assessment of the subject property in July 2024. A map showing the different generalized plant communities on-site is attached. The majority of the 63.33 acre site consists of abandoned agricultural fields, now containing old field and weedy upland meadow plant communities (44.14 acres total). Several small, disjointed, wooded areas are present in the north and central portions of the site (2.96 acres total). A mowed hay field is present in the southeast corner of the site (5.84 acres) and two areas of meadow with intermittent scattered trees, are present on the east side of the site (2.50 acres). One open meadow, dominated by invasive reed canary grass (*Phalaris arundinacea*), was noted in the northeast corner of the site (0.17 acre). In my opinion, the potential for threatened and endangered species habitat on site is low due to a history of agricultural row cropping, hay cropping, and construction disturbance. The areas which have not been historically farmed are segmented into relatively small areas and were observed to contain common and/or weedy plant species. None of the observed plant communities are rare for southeast Wisconsin and therefore likely do not support threatened or endangered species habitat. The eastern prairie fringed orchid (*Platanthera leucophaea*) is unlikely to be present within the subject Property due to the history of disturbance (previously described) and lack of high quality plant communities on-site.



Montrose Environmental Solutions  
60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
August 19, 2024

Sincerely,

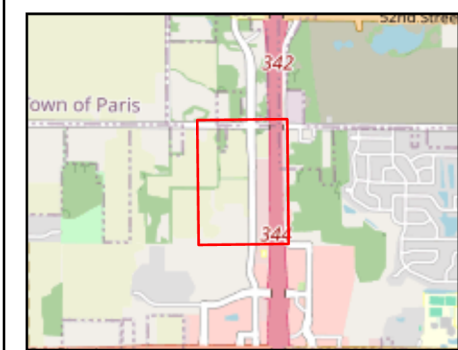
Matthew Stangel, Senior Scientist  
Heartland Ecological Group, Inc.  
[matt@heartlandecological.com](mailto:matt@heartlandecological.com)  
920.419.5634

Enclosures:

Plant Communities Map

WDNR Endangered Resources Review Verification

WDNR Email Correspondence



- Study Area (63.33 ac)
  - Field Delineated Wetland (2.64 ac)
- Plant Communities**
- Hay Field (5.84 ac)
  - Meadow w/ Scattered Trees (2.50 ac)
  - Old Field (44.14 ac)
  - Open Meadow (0.17 ac)
  - Woodland (2.96 ac)



**Heartland**  
ECOLOGICAL GROUP INC

**Plant Communities Map**  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2020 NAIP  
County Co, HEG  
LRR: MW

Figure Created: 8/5/2024

**Note:** In order to fill and save this form electronically, it must be opened using Adobe Reader or Acrobat software. Save a copy of the file, open Adobe Reader, select File > Open and browse for the file you saved.

State of Wisconsin  
Department of Natural Resources  
Bureau of Natural Heritage Conservation  
Endangered Resources Review Program  
PO Box 7921, Madison WI 53707-7921  
<https://dnr.wi.gov/topic/ERReview/>  
[DNRERReview@wisconsin.gov](mailto:DNRERReview@wisconsin.gov)

**Endangered Resources (ER) Review Verification**  
**Broad Incidental Take Permit/Authorization**  
**for No/Low Impact Activities**  
Form 1700-079 (R 05/2024)

**Notice:** This form is authorized by s. 29.604, Wis. Stats. This completed signed form, once submitted to [DNRERReview@wi.gov](mailto:DNRERReview@wi.gov) using the Submit by Email button at the bottom of the form, fulfills the requirement of an Endangered Resources Review and should be attached to other permits requiring an ER Review to show that Endangered Resources requirements have been met. Personal information collected on this form will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Public Records law [ss. 19.31-19.39, Wis. Stats.].

**Instructions:** Complete this form if your project is covered under the Broad Incidental Take Permit/Authorization for No/Low Impact Activities and therefore does not require an Endangered Resources Review.

**Section 1: Applicant and Project Information**

Requester Name Matt Stangel		Organization or Agency Name Heartland Ecological			
Project Name 60th Street and 122nd Avenue Parcels		County Kenosha	Township 01 N	Range 21	Section 1
DPS Project # (if applicable)	Telephone Number (608) 490-2450	Email Address matt@heartlandecological.com			

Project Description  
Mass grading for building construction including auxiliary roads and parking lots.

Indicate who you are completing this form as:

- DNR Staff  
 Certified Reviewer  
 Other:

**Section 2: Broad Incidental Take Permit/Authorization Coverage Information**

How is your project covered under the Broad Incidental Take Permit/Authorization for No/Low Impact Activities?

- It is included in the list of activities in Table 1 – No/Low Impact Table for All Species at All Times of the Year.  
 It is included in the list of activities in Table 2 – No/Low Impact Table by Taxa Group for DNR Staff and ER Certified Reviewers Only and the Taxa groups for the species of concern are covered.  
 It is included in the list of activities in Table 2 – No/Low Impact Table by Taxa Group for DNR Staff ER Certified Reviewers Only and the species of concern are covered by the Avoidance Measures document.

Activity Number(s)

Footnote 4 for Special Concern species. The species present are all special concern and no suitable habitat is present.

**Section 3: Applicant Certification**

By my signature below, I certify that to the best of my knowledge, the information stated above is complete and accurate.

Angela White  
Signature

8/5/2024  
Date Signed

Angela White  
Requester/Submitter Name (please print)

<b>Leave Blank – DNR Use Only</b>		Approve/Deny Form <input checked="" type="checkbox"/>
<input checked="" type="radio"/> Approved <input type="radio"/> Denied		
DNR Reviewer Name Melissa Tumbleson	DNR Reviewer Date 08/05/2024	

**From:** [White, Angela L - DNR](#)  
**To:** [Matt Stangel](#)  
**Subject:** RE: 60th Street and 122nd Avenue Parcels ER Review Request - Kenosha County  
**Date:** Wednesday, August 7, 2024 5:40:07 PM  
**Attachments:** [image001.png](#)  
[image002.jpg](#)  
[image003.jpg](#)  
[image004.jpg](#)  
[image005.png](#)  
[image006.png](#)

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Hi Matt,

Our portal does have most federal species, but not all.

For the Northern Long-eared Bat:

No further action is necessary for your project, per state guidance. The NLEB did not come up within 2 miles of your project boundary. If your project has a federal nexus then the federal action agency or their authorized representative will need to complete the federal review process through iPaC to satisfy federal requirements.

Angela

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Angela White**

Phone: 608-266-5241

[AngelaL.White@Wisconsin.gov](mailto:AngelaL.White@Wisconsin.gov)

---

**From:** Matt Stangel <[matt@heartlandecological.com](mailto:matt@heartlandecological.com)>  
**Sent:** Wednesday, August 7, 2024 3:47 PM  
**To:** DNR ER Review <[DNRRERReview@wisconsin.gov](mailto:DNRRERReview@wisconsin.gov)>  
**Subject:** RE: 60th Street and 122nd Avenue Parcels ER Review Request - Kenosha County

**CAUTION: This email originated from outside the organization.  
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Can you confirm that federally listed species and the Northern Long Eared Bat were included in this review process?



**Matt Stangel** He/Him

Heartland Ecological Group, Inc.  
Office: 608-490-2450 ext. 6  
Cell: 920-419-5634  
[www.heartlandecological.com](http://www.heartlandecological.com)



---

**From:** DNR ER Review <[DNREReview@wisconsin.gov](mailto:DNREReview@wisconsin.gov)>  
**Sent:** Monday, August 5, 2024 3:50 PM  
**To:** Matt Stangel <[matt@heartlandecological.com](mailto:matt@heartlandecological.com)>  
**Subject:** RE: 60th Street and 122nd Avenue Parcels ER Review Request - Kenosha County

Hi Matt,

The 60th Street and 122nd Avenue Parcels project is covered by Table 2 of the [Broad Incidental Take Permit/Authorization for No/Low Impact Activities \(No/Low BITP/A\)](#), a formal ER Review letter is not needed and there are no actions that need to be taken to comply with state endangered species laws. Any take that may result from the proposed project is permitted/authorized, and the ER Review fee is waived.

Specifically, the project is covered by Footnote 4 for Special Concern species. The species present are all special concern and no suitable habitat is present.

*Please note, Table 2 is for use by DNR Staff and ER Certified Reviewers only, therefore, the table is not available online.* The no/low BITP/A covers projects that the DNR has determined will have no impact or a minimal impact to endangered and threatened species in the state.

Attached is an ER Review Verification Form for you to keep on file and submit with any other necessary DNR permit applications to indicate that ER requirements have been met. This notice only addresses endangered resources issues. This notice does not constitute DNR authorization of the proposed project and does not exempt the project from securing necessary permits and approvals from the DNR and/or other permitting authorities.

Please contact me if you have any questions.

Thanks,  
Angela

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Angela White

Phone: 608-266-5241

[AngelaL.White@Wisconsin.gov](mailto:AngelaL.White@Wisconsin.gov)

---

**From:** Matt Stangel <[matt@heartlandecological.com](mailto:matt@heartlandecological.com)>  
**Sent:** Monday, August 5, 2024 1:02 PM

**To:** DNR ER Review <[DNRRERReview@wisconsin.gov](mailto:DNRRERReview@wisconsin.gov)>

**Subject:** 60th Street and 122nd Avenue Parcels ER Review Request - Kenosha County

**CAUTION: This email originated from outside the organization.  
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Greetings,

Please see attached documents related to an endangered resources review request for 4 adjacent tax parcels located in the City of Kenosha, Kenosha County. The wetlands on site were delineated by Heartland Ecological Group in 2024, and the full wetland delineation report can be accessed through the link below.

 [Heartland Wetland Report\\_60th St and 122nd Ave\\_20240801r.pdf](#)



**Matt Stangel**

Senior Scientist

Office: 608-490-2450 ext. 6

Cell: 920-419-5634

[www.heartlandecological.com](http://www.heartlandecological.com)



# ***APPENDIX BIO-3***

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## ***WETLAND DELINEATION REPORT***



# Wetland Delineation Report

## **60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels**

City of Kenosha, Kenosha County, Wisconsin

August 1, 2024

Project Number: 20241307

# 60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels

City of Kenosha, Kenosha County, Wisconsin

August 1, 2024

---

**Prepared for:**

Ms. Randa Horton

Montrose Environmental Solutions

1801 7<sup>th</sup> Street, Suite 100

Sacramento, CA 95811

**Prepared by:**

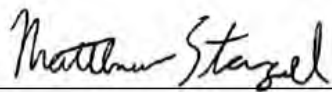
Heartland Ecological Group, Inc.

506 Springdale Street

Mount Horeb, WI 53572

608-490-2450

[www.heartlandecological.com](http://www.heartlandecological.com)



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Lead Investigator: Matthew Stangel,  
Senior Scientist



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Eric C. Parker, SPWS Principal Scientist

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Appendix C | Wetland Determination Data Sheets

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Appendix E | Delineator Qualifications

Appendix F | NAIP Imagery / Off-Site Analysis

Appendix G | Previous Wetland Mapping



## 1.0 Introduction

Heartland Ecological Group, Inc. (“Heartland”) completed a wetland determination and delineation on the 60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels site on July 19 and July 25, 2024, at the request of Montrose Environmental Solutions. Fieldwork was completed by Matt Stangel, the lead investigator of this wetland delineation, and Eric C. Parker, SPWS. The 66.33-acre site (the “Study Area”) is northwest of the intersection of Interstate Highway 41/94 (I-41/94) and State Trunk Highway (STH) 50 (STH 50), in the northeast ¼ of Section 1, T1N, R21E, City of Kenosha, Kenosha County, WI (Figure 1, Appendix A). The purpose of the wetland delineation was to determine the location and extent of wetlands within the Study Area.

Nine (9) wetland areas totaling approximately 2.64 acres were delineated and mapped within the Study Area (Figure 7, Appendix A). No waterways or water bodies were observed in the Study Area. A pond was observed immediately south of the Study Area.

Wetlands, waterways, and water bodies discussed in this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE). Heartland recommends this report be submitted to the USACE for final jurisdictional review and concurrence.



## 2.0 Methods

### 2.1 Wetlands

Wetlands were determined and delineated using the criteria and methods described in the USACE Wetland Delineation Manual, T.R. Y-87-1 (“1987 Corps Manual”) and the applicable *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*. In addition, the *Guidance for Submittal of Delineation Reports to the St. Paul District USACE and the WDNR* (WDNR, 2015) was followed in completing the wetland delineation and report.

Determinations and delineations utilized available resources including the U.S. Geological Survey’s (USGS) *WI 7.5 Minute Series (Topographic) Map* (Figure 2, Appendix A), the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service’s (NRCS) Soil Survey Geographic Database (SSURGO) *Web Soil Survey* (Figure 3, Appendix A), the WDNR’s *Wetland Indicator* data layer (Figure 4, Appendix A), the WDNR’s *Wisconsin Wetland Inventory* data layer (Figure 5, Appendix A), the WDNR’s *24k Hydro Flowlines (Rivers and Streams)* data layer (Figure 2 and 5, Appendix A), the WDNR’s *Color-Stretch LiDAR and Hillshade Image Service Layer* (Figure 6, Appendix A), and aerial imagery available through the USDA Farm Service Agency’s (FSA) National Agriculture Imagery Program (NAIP) and Kenosha County’s Land Information Office.

Wetland determinations were completed on-site at sample points, often along transects, using the three (3) criteria (vegetation, soil, and hydrology) approach per the 1987 Corps Manual and the Regional Supplement. Procedures in these sources were followed to demonstrate that, under normal circumstances, wetlands were present or not present based on a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology.

Atypical conditions were encountered within the Study Area due to the presence of agricultural fields including row-cropping and hay fields in areas with soils that may be hydric based on the *Web Soil Survey* and the WDNR *Surface Water Data Viewer’s* wetland indicator data layer. Normal circumstances were also not present in the southwest portion of the Study Area due to past disturbance that has affected site hydrology. Therefore, procedures for managed plant communities in the *Problematic hydrophytic vegetation* section described in Chapter 5 of the Regional Supplement were used. NAIP imagery was



reviewed for evidence of crop stress, saturation, or inundation signatures. Sample point placements for the wetland delineation were partially determined based on such signatures.

In actively farmed areas within the Study Area where hydric soils may be present, methods described in Chapter 5 (Difficult Wetland Situations) of the Regional Supplement were followed. Available aerial imagery was analyzed using procedures described in the *Guidance for Offsite Hydrology/Wetland Determinations* (USACE and Minnesota Board of Water and Soil Resources, July 2016 – “July 2016 Guidance”). An off-site aerial imagery analysis (Off-Site Analysis) was completed to document the presence or absence of wetland signatures and assist in the wetland determination. A wetland signature is evidence, recorded by aerial imagery, of ponding, flooding, or impacts of saturation for sufficient duration to meet wetland hydrology and possibly wetland vegetation criteria. Wetland signatures often vary based on the type and seasonal date of the aerial imagery. For example, there are seven (7) standardized signature types in actively farmed settings described in the July 2016 Guidance. To assist in interpretations of wetland signatures, a WETS analysis was used to compare antecedent precipitation in the three (3) months leading up to each aerial image to the long-term (30-year) precipitation averages and standard deviation to determine if antecedent precipitation conditions for each image was normal, wet, or dry. Areas within agricultural fields are typically determined to be wetland if hydric soils and wetland hydrology indicators are present and aerial images taken in the five (5) (or more) most recent normal antecedent precipitation images show at least one (1) of the wetland signatures per the July 2016 Guidance. Although the Off-Site Analysis concentrates on imagery taken under normal antecedent precipitation conditions, the images determined to be taken under wet and dry antecedent precipitation conditions were also analyzed and considered. Determinations and delineation of wetlands in agricultural areas are typically based on an outline of the largest wetland signature on an image taken under “normal” antecedent conditions and based on the consistency of the signatures (USDA, NRCS 1998).

Recent weather conditions influence the visibility or presence of certain wetland hydrology indicators. An assessment of recent precipitation patterns helps to determine if climatic/hydrologic conditions were typical when the field investigation was completed. Therefore, a review of antecedent precipitation in the 90 days leading up to the field investigation was completed. Using an Antecedent Precipitation Tool (APT) analysis



developed by the USACE (Deters & Gutenson 2021), the amount of precipitation over these 90 days was compared to averages and standard deviation thresholds observed over the past 30 years to generally represent if conditions encountered during the investigation were normal, wet, or dry. Recent precipitation events in the weeks prior to the investigation were also considered while interpreting wetland hydrology indicators. Additionally, the Palmer Drought Severity Index was checked for long-term drought or moist conditions (NOAA, 2018).

The uppermost wetland boundary and sample points were identified and marked with wetland flagging and located with a Global Navigation Satellite System (GNSS) receiver capable of sub-meter accuracy. In some cases, wetland flagging was not utilized to mark the boundary and the location was only recorded with a GNSS receiver, particularly in active agricultural areas. The GNSS data was then used to map the wetlands using ESRI ArcGIS Pro™ software.

## 3.0 Results and Discussion

### 3.1 Desktop Review

#### Climatic Conditions

According to the APT analysis using the previous 90 days of precipitation data, conditions encountered at the time of the fieldwork were expected to be wetter than normal for the time of year (Appendix B). The Palmer Drought Severity Index was checked as part of the APT analysis, and the long-term conditions at the time of the fieldwork were in the moderate wetness range. Fieldwork was completed within the dry-season based on long-term regional hydrology data utilized in the WebWIMP Climatic Water Balance and computed as part of the APT analysis. Conditions on site were observed to be wet, approximately 2.69 inches of rain had fallen within a week of the first day of fieldwork on July 19<sup>th</sup>.

#### General Topography and Land Use

The topography within the Study Area was rolling, with various hills, depressions, and slopes. A topographic high of approximately 735 feet above mean sea level (msl) is present on the west side, and a topographic low of approximately 712 feet above msl is present near the northeast corner (Figures 2, 6, and 7 Appendix A). Land uses within the Study



Area and surrounding areas are primarily agricultural row cropping and hay fields with residential, woodland, and vacant land areas also present. A frontage road bisects the Study Area from north to south, and I-41/94 lies outside the Study Area to the east.

**Soil Mapping**

Soils mapped by the NRCS Soil Survey within the Study Area and their hydric status are summarized in Table 1. Wetlands identified during the field investigation are located primarily within areas mapped as hydric or partially hydric soils including wetland indicator soils (Figures 3 and 4, Appendix A).

**Table 1. Summary of NRCS Mapped Soils within the Study Area**

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
AtA: Ashkum silty clay loam, 0-2% slopes	Ashkum-Drained	85-100	End and ground moraines	Yes
	Peotone-Drained	0-9	Depressions on ground moraines	Yes
	Orthents, clayey	0-3	Ground moraines, lake plains	No
	Urban land	0-3	Ground moraines	No
EtB: Elliott silty clay loam, 2-6% slopes	Elliott	90-98	Till plains	No
	Ashkum	2-10	Depressions	Yes
OzaB: Ozaukee silt loam, 2-6% slopes	Ozaukee	88-100	Ground and end moraines	No
	Pewamo-Drained	0-7	Drainageways and depressions on ground moraines	Yes
	Ashkum-Drained	0-7	End and ground moraines	Yes
	Urban land	0-5	Ground moraines	No
OzaB2: Ozaukee silt loam, 2-6% slopes, eroded	Ozaukee-Eroded	88-100	Ground and end moraines	No
	Ashkum-Drained	0-7	End and ground moraines	Yes
	Pewamo-Drained	0-7	Drainageways and depressions on ground moraines	Yes
	Urban land	0-5	Ground moraines	No



Montrose Environmental Solutions  
 60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
 Project #: 20241307  
 August 1, 2024

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
Ww: Wet alluvial land	Wet alluvial land	100	Drainageways and depressions on flood plains	Yes

### **Wetland Mapping**

The Wisconsin Wetlands Inventory (WWI) mapping (Figure 5, Appendix A) depicts five (5) wetland areas within the Study Area. Four (4) emergent/wet meadow wetlands (E2Ka, E2K, and \$E2K) in the southern portion of the Study Area, and one open water wetland (WOH) near the southwestern boundary of the Study Area.

### **Waterway Mapping**

The WDNR's Rivers and Streams data layer (Figure 5, Appendix A) does not depict any waterways or water bodies within the Study Area.

### **Previous Delineations and Landowner Contacts**

Heartland is aware of one (1) previous wetland delineation completed within a 28.88 acre area in the northwest portion of the Study Area. The previous wetland delineation, which was completed by R.A. Smith National in 2017 delineated six (6) wetlands within the Study Area (Mapping included in Appendix G).

### **Aerial Photography**

Available NAIP imagery of the Study Area from the period of 1995-2022 (Appendix F) was reviewed for evidence of wetland signatures and to gain insight into the site's recent history. The north half of the site has predominantly been used for agriculture throughout the review period. In the southern half of the site, the western half has typically been farmed, while buildings, trees, and open meadow were present in the eastern half. Between 2006 and 2008 farming in the southwest portion of the Study Area was abandoned and has remained abandoned; and a new water tower was constructed just outside the southern edge of the Study Area. A pond also appears to have been excavated in this vicinity south of the Study Area in this period. Between 2010 and 2013, the I-94 frontage road was demolished, which was present on the east side of the Study Area and re-located further



west within the Study Area. A construction staging area appears to be present in the southern portion of the Study Area on the 2013 aerial. Disturbance for unknown reasons appears present on the 2017 aerial photo in the fields on the southwest, southeast, and northwest portions of the Study Area.

### **Off-Site Analysis**

Agricultural fields are present within the Study Area and have significant mapped hydric or potentially hydric soils and were the focus of the Off-Site Analysis (OSA) (Appendix F). From the aerial imagery, the secondary wetland hydrology indicators of "Saturation Visible on Aerial Imagery" (C9) and "Stunted or Stressed Plants" (D1) were noted in three (3) areas.

A total of 18 aerial images were selected and reviewed based on availability and quality of the imagery. Of these images, ten (10) were taken under normal antecedent precipitation conditions. Signatures were noted in seven (7) areas within the Study Area within landscape positions described by the NRCS to support hydric soil components and were the focus of the OSA. At least one (1) of the seven (7) described wetland signatures per the July 2016 Guidance were consistently noted in three (3) of these areas on imagery taken under normal antecedent precipitation conditions. In imagery taken under wet antecedent precipitation conditions, such wetland signatures were noted in five (5) of the six (6) images. In imagery taken under dry antecedent precipitation conditions, there were wetland signatures noted in two (2) of the two (2) images.

Based on the OSA, three (3) areas were likely to be wetland prior to the fieldwork. All three (3) of these areas appeared to be located along shallow drainageways. No drain tile signatures were apparent on the OSA.

## **3.2 Field Review**

Nine (9) wetlands were identified and delineated within the Study Area. Wetland determination data sheets (Appendix C) were completed at 34 sample points that were representative of the wetland and upland conditions near the boundary and where potential wetlands may be present based on the desktop review and field reconnaissance. Appendix D provides photographs, typically at the sample point locations of the wetlands and adjacent uplands. The wetland boundary and sample point locations are shown on Figure 7 (Appendix A) and the wetlands are summarized in Table 2 and detailed in the following sections.



**Table 2. Summary of Wetlands Identified within the Study Area**

Wetland ID	Wetland Description	*Surface Water Connections	Acreage (on-site)
W-1	Wet Meadow	Potentially isolated	0.02
W-2	Wet Meadow	Potentially isolated; continues off-site to west	1.28
W-3	Shrub Carr	Excavated ditch; Contiguous with Unnamed Tributary to the Kilbourn Road Ditch	0.10
W-4	Wet Meadow	Potentially isolated	0.02
W-5	Shrub Carr / Shallow Marsh	Contiguous with open water pond located off-site to south	0.01
W-6	Wet Meadow	Potentially isolated	0.53
W-7	Wet Meadow	Potentially isolated	0.09
W-8	Farmed Wet Meadow / Wet Meadow / Shallow Marsh	Excavated ditch; Contiguous with off-site ditch located to the east	0.51
W-9	Wet Meadow	Excavated ditch; Contiguous with off-site ditch located to the east	0.07

\*Classification based on Heartland’s professional opinion. USACE has authority for determining federal jurisdiction of wetlands and waterways.

**2.64**

**Wetland 1 (W-1)**

Wetland 1 (W-1) is a 0.02-acre depressional and isolated wet meadow located near the southwest corner of the Study Area. The boundary of W-1 generally followed a moderately-defined topographic break.

Dominant vegetation observed in W-1 included reed canary grass (*Phalaris arundinacea*, FACW) and common reed (*Phragmites australis*, FACW). Therefore, the wetland vegetation parameter was met.

The Depleted Below Dark Surface (A11) and Depleted Matrix (F3) hydric soil indicators were noted in W-1, which is consistent within depressions of the mapped Elliott silty clay loam soil type. Thus, the hydric soil parameter was met.

The primary wetland hydrology indicators of Surface Water (A1), High Water Table (A2), and Saturation (A3) were noted within W-1, while secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.



### **Wetland 2 (W-2)**

Wetland 2 (W-2) is a 1.28-acre wet meadow located along the southwestern boundary of the Study Area. The boundary of W-2 generally followed a moderately-defined topographic break. W-2 was noted to be associated with the previously described southwest disturbance area where agriculture was abandoned between 2006 and 2008.

Dominant vegetation observed in W-2 included pinkweed (*Persicaria pensylvanica*, FACW), creeping wild rye (*Elymus repens*, FACU), great ragweed (*Ambrosia trifida*, FAC), Kentucky blue grass (*Poa pratensis*, FAC), common dandelion (*Taraxacum officinale*, FACU), Canada thistle (*Cirsium arvense*, FACU), and reed canary grass. The wetland vegetation parameter was considered problematic within some areas within W-2 give past soil disturbance, presence of hydric soils, landscape position, and professional judgement.

The Loamy Gleyed Matrix (F2) and Depleted Matrix (F3) hydric soil indicators were noted in W-2, which is consistent within the mapped Ashkum silty clay loam soil type and depressions of the mapped Elliott silty clay loam soil type. Thus, the hydric soil parameter was met. Soils within and adjacent to W-2 were noted to be disturbed in portions with a mixed matrix.

The primary wetland hydrology indicators of Surface Water (A1), High Water Table (A2), Saturation (A3), and Sediment Deposits (B2) were noted within W-2, while secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

### **Wetland 3 (W-3)**

Wetland 3 (W-3) is a 0.10-acre shrub carr located in a ditch near the eastern boundary of the Study Area. The boundary of W-3 generally followed a well-defined topographic break along a historically excavated ditch.

Dominant vegetation observed in W-3 included peach-leaf willow (*Salix amygdaloides*, FACW), common reed, and reed canary grass. Therefore, the wetland vegetation parameter was met.

The Depleted Matrix (F3) hydric soil indicator was noted in W-3, which is consistent with the mapped Wet alluvial land soil type. Thus, the hydric soil parameter was met.



The primary wetland hydrology indicators of Surface Water (A1), High Water Table (A2), and Saturation (A3) were noted within W-3, while secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

#### **Wetland 4 (W-4)**

Wetland 4 (W-4) is a 0.02-acre wet meadow located near the southern boundary of the Study Area. W-4 lies within an area noted to have undergone past disturbance. The boundary of W-4 generally followed a moderately-defined topographic break.

Dominant vegetation observed in W-4 included common spike-rush (*Eleocharis palustris*, OBL) and reed canary grass. Therefore, the wetland vegetation parameter was met.

No hydric soil indicators were noted in W-4, but it was assumed that hydric soils were developing given the relatively recent disturbance, including compaction, the other parameters, and professional judgment. Thus, the hydric soil parameter was determined to be met.

The primary wetland hydrology indicators of Surface Water (A1), High Water Table (A2), and Saturation (A3) were noted within W-4, while secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

#### **Wetland 5 (W-5)**

Wetland 5 (W-5) is a 0.01-acre complex of shrub carr and shallow marsh located along the southern boundary of the Study Area and continuing off-site to the south. The boundary of W-5 generally followed a well-defined topographic break associated with an excavated pond that was present south of the Study Area.

Dominant vegetation observed in W-5 included sandbar willow (*Salix interior*, FACW), common reed, and riverbank grape (*Vitis riparia*, FACW). Therefore, the wetland vegetation parameter was met.

The Depleted Matrix (F3) hydric soil indicator was noted in W-5, which is consistent with the mapped Ashkum silty clay loam soil type. Thus, the hydric soil parameter was met.



The primary wetland hydrology indicators of Surface Water (A1), High Water Table (A2), and Saturation (A3) were noted within W-5, while the secondary indicator of a positive FAC-Neutral Test (D5) was also observed. Therefore, the wetland hydrology parameter was met.

### **Wetland 6 (W-6)**

Wetland 6 (W-6) is a 0.53-acre wet meadow located in the northwest portion of the Study Area. W-6 is typically farmed; however, the area appears to have been left fallow this season and was dominated by volunteer vegetation. The boundary of W-6 generally followed a poorly defined topographic break which correlated mostly with the extent of hydric soils and wetland indicators associated with a consistent signature per the OSA.

Dominant vegetation observed in W-6 included barnyard grass (*Echinochloa crus-galli*, FACW) and spotted lady's-thumb (*Persicaria maculosa*, FACW). Therefore, the wetland vegetation parameter was met.

The Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6) hydric soil indicators were noted in W-6, which are consistent within depressions of the mapped Elliott silty clay loam soil type. Thus, the hydric soil parameter was met.

The primary wetland hydrology indicator of Drift Deposits (B3) was noted within W-6, while secondary indicators included Surface Soil Cracks (B6), Saturation Visible on Aerial Imagery (C9), Stunted or Stressed Plants (D1), Geomorphic Position (D2), and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

### **Wetland 7 (W-7)**

Wetland 7 (W-7) is a 0.09-acre wet meadow located in a tree-line in the center of the Study Area. The boundary of W-7 generally followed a moderately-defined topographic break.

Dominant vegetation observed in W-7 included box elder (*Acer negundo*, FAC), and reed canary grass. Therefore, the wetland vegetation parameter was met.

The Redox Dark Surface (F6) hydric soil indicator was noted in W-7, which is consistent within depressions of the mapped Elliott silty clay loam soil type. Thus, the hydric soil parameter was met.



No primary wetland hydrology indicators were noted within W-7, however, the secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

### **Wetland 8 (W-8)**

Wetland 8 (W-8) is a 0.51-acre complex of wet meadow and shallow marsh, which is partially farmed, located in the northeastern portion of the Study Area. The boundary of W-8 generally followed a well-defined topographic break along the southern/western extent, while the northern extent was farmed and followed a poorly defined topographic break which correlated with the extent of hydric soils and wetland signatures observed in the OSA.

Dominant vegetation observed in W-8 included peach-leaf willow, common reed, flower-of-an-hour (*Hibiscus trionum*, UPL), and barnyard grass. Therefore, the wetland vegetation parameter was met.

The Depleted Matrix (F3) and Redox Dark Surface (F6) hydric soil indicators were noted in W-8, which are consistent within depressions of the mapped Elliott silty clay loam soil type. Thus, the hydric soil parameter was met.

The primary wetland hydrology indicators of High Water Table (A2) and Saturation (A3) were noted within W-8, while secondary indicators included Surface Soil Cracks (B6), Saturation Visible on Aerial Imagery (C9), Stunted or Stressed Plants (D1), Geomorphic Position (D2), and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

### **Wetland 9 (W-9)**

Wetland 9 (W-9) is a 0.07-acre wet meadow located mostly within a roadside ditch near the northern boundary of the Study Area. The boundary of W-9 generally followed a moderately-defined topographic break.

Dominant vegetation observed in W-9 included barnyard grass and spotted lady's-thumb. Therefore, the wetland vegetation parameter was met.

The Redox Dark Surface (F6) hydric soil indicator was noted in W-9, which is consistent within depressions of the mapped Elliott silty clay loam soil type. Thus, the hydric soil parameter was met.



The primary wetland hydrology indicators of High Water Table (A2) and Saturation (A3) were noted within W-9, while secondary indicators included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology parameter was met.

### **Waterways**

No waterways nor water bodies were observed within the Study Area.

## **3.3 Other Considerations**

This report is limited to the identification and delineation of wetlands within the Study Area. Other regulated environmental resources that result in land use restrictions may be present within the Study Area that were not evaluated by Heartland (e.g. navigable waterways, floodplains, cultural resources, and threatened or endangered species).

## **4.0 Conclusion**

Heartland completed a wetland determination and delineation within the 60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels on July 19 and July 25, 2024, at the request of Montrose Environmental Solutions. Fieldwork was completed by Matt Stangel (lead investigator) and Eric C. Parker, SPWS. The Study Area lies in Section 1, T1N, R21E, City of Kenosha, Kenosha County, WI (Figure 1, Appendix A).

Nine (9) wetland areas were delineated and mapped within the 66.33-acre Study Area (Figure 7, Appendix A). The wetlands, which may be classified as wet meadow, shrub carr, and shallow marsh, total approximately 2.64 acres within the Study Area.

Wetlands, waterways, and water bodies discussed in this report may be subject to federal regulation under the jurisdiction of the USACE. Heartland recommends this report be submitted to the USACE for final jurisdictional review and concurrence. Review by local authorities may be necessary for determination of any applicable zoning and setback restrictions.

Heartland recommends that all applicable regulatory agency reviews and permits are obtained prior to beginning work within the Study Area or within or adjacent to wetlands or



waterways. Heartland can assist with evaluating the need for additional environmental reviews, surveys, or regulatory agency coordination in consideration of the proposed activity and land use as requested but is outside of the scope of the wetland delineation.

Experienced and qualified professionals completed the wetland determination and delineation using standard practices and professional judgment. Wetland boundaries may be affected by conditions present within the Study Area at the time of the fieldwork. All final decisions on wetlands and their boundaries are made by the USACE. Wetland determination and boundary reviews by regulatory agencies may result in modifications to the findings presented to the Client. These modifications may result from varying conditions between the time the wetland delineation was completed and the time of the review. Factors that may influence the findings may include but are not limited to precipitation patterns, drainage modifications, changes or modification to vegetation, and the time of year.

## 5.0 References

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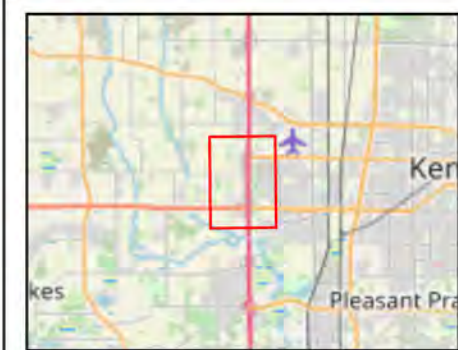
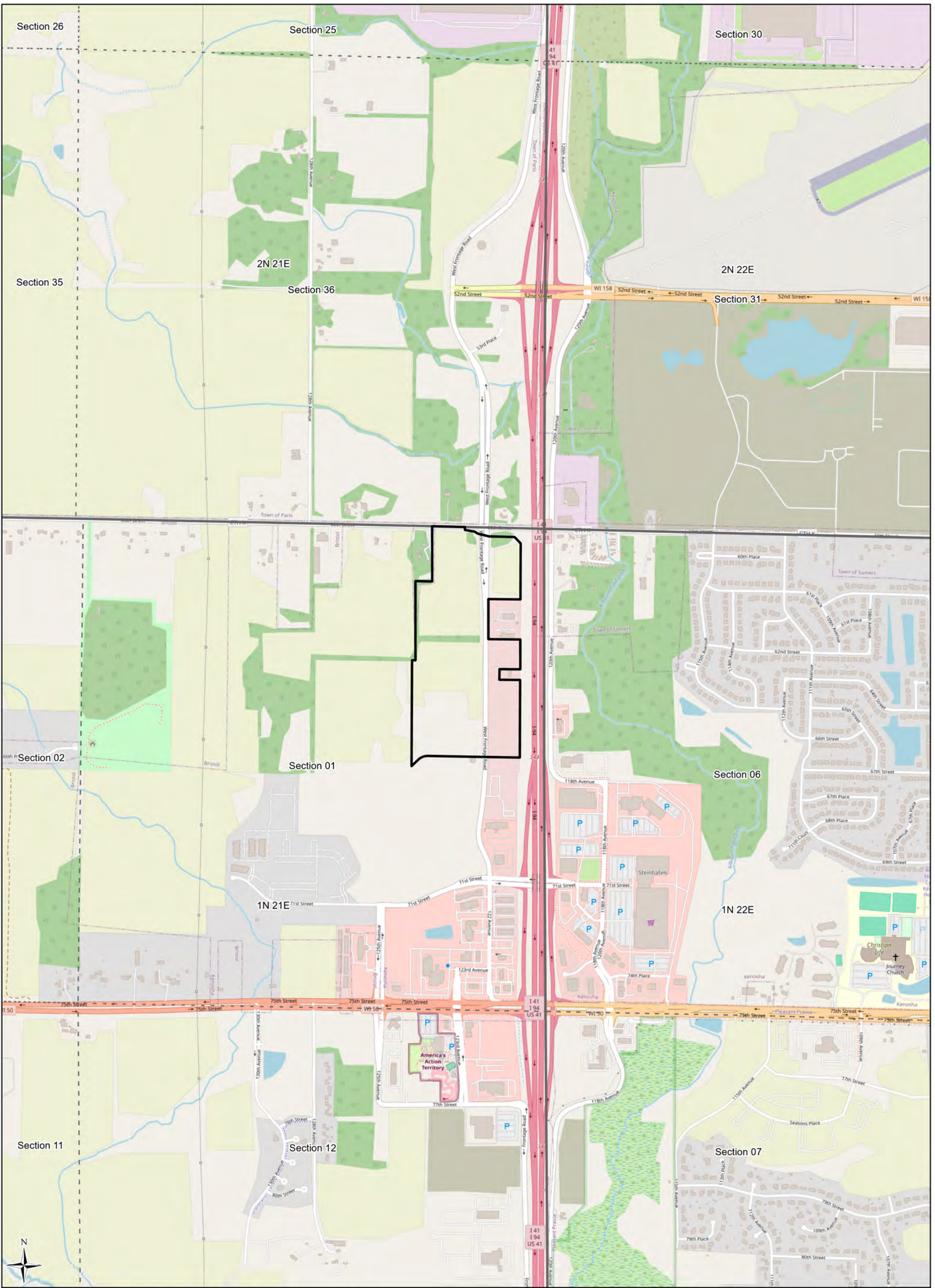
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August 1, 2024

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## Appendix A | Figures



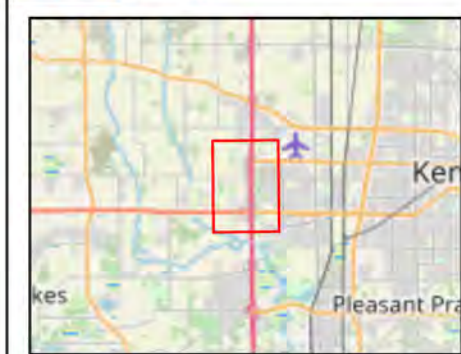
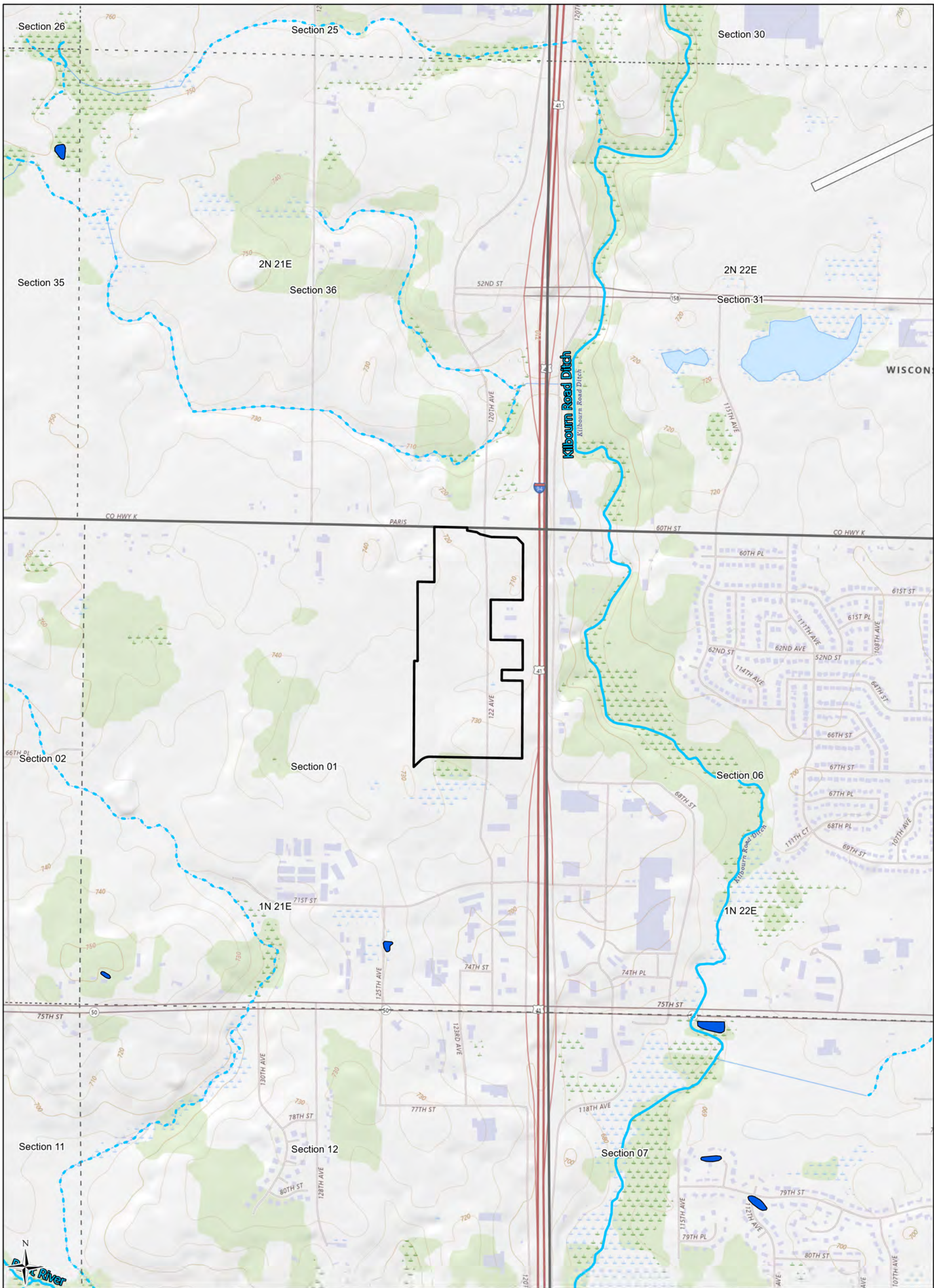
- Study Area (63.33 ac)
- Township
- Section

0 500 1,000  
Ft

**Heartland**  
ECOLOGICAL GROUP INC

Figure 1. Project Location  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

OpenStreetMap  
ESRI LRR: MW  
Figure Created: 7/15/2024



- Study Area (63.33 ac)
- Township
- Section
- ~ Perennial Streams
- - - Intermittent Streams
- Waterbodies

0 500 1,000  
Ft

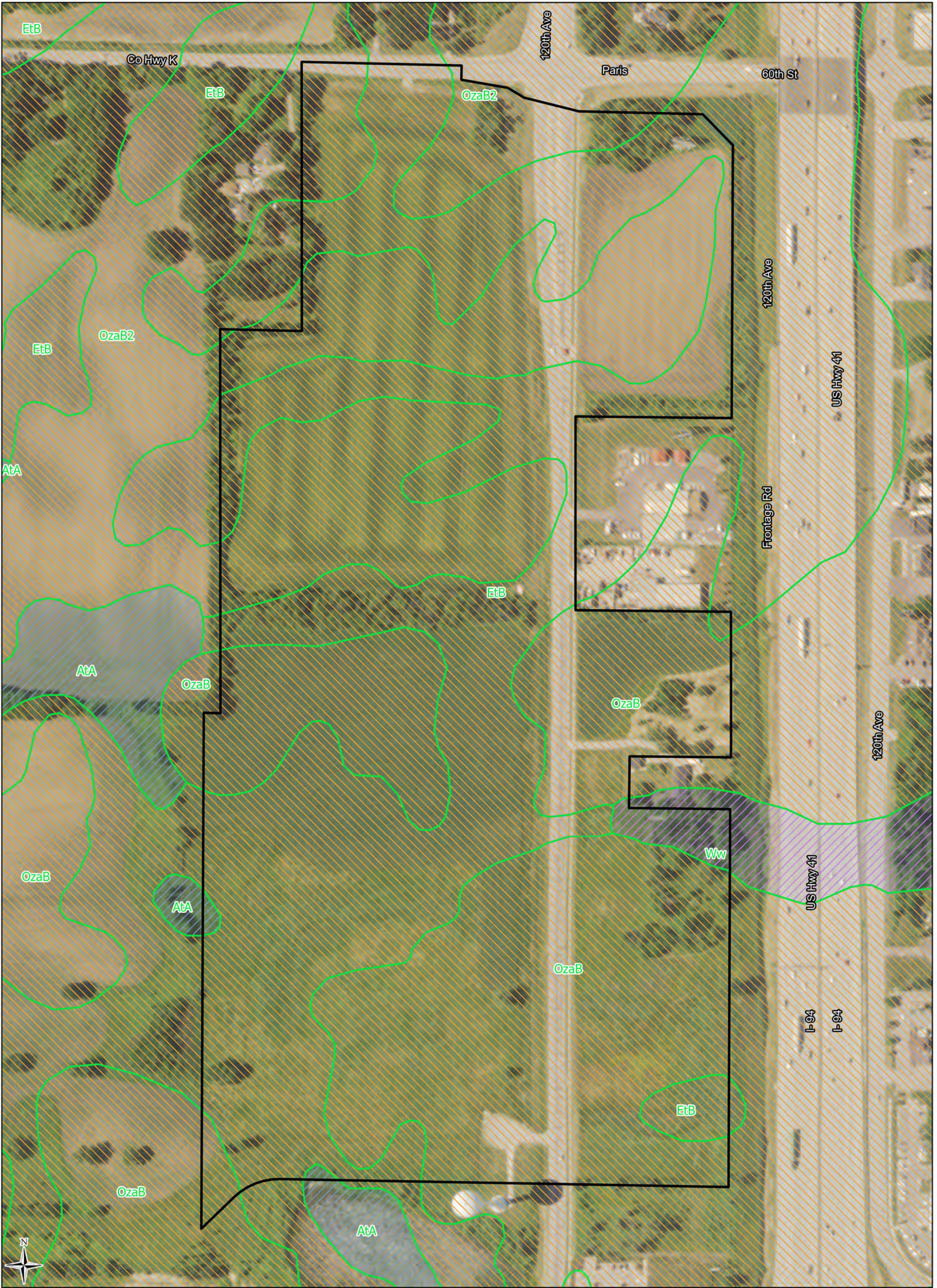
**Heartland**  
ECOLOGICAL GROUP INC

Figure 2. USGS Topography  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

USGSTopo  
USGS

LRR: MW

Figure Created: 7/15/2024



- Study Area (63.33 ac)
- NRCS Soil Survey Data**
- Hydric (100%)
  - Predominantly Hydric (85-99%)
  - Partially Hydric (16-84%)
  - Predominantly Non-Hydric (1-15%)
  - Non-Hydric (0%)



**Heartland**  
ECOLOGICAL GROUP INC

Figure 3. NRCS Hydric Soils  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2022 NAIP  
NRCS  
LRR: MW  
Figure Created: 7/15/2024



Study Area (63.33 ac)  
 SWDV Wetland Indicators

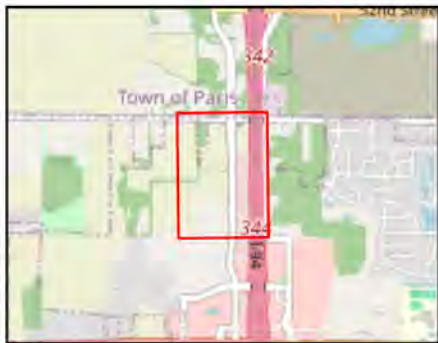
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Figure 4. SWDV Wetland Indicators  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2022 NAIP  
WDNR LRR: MW  
Figure Created: 7/15/2024



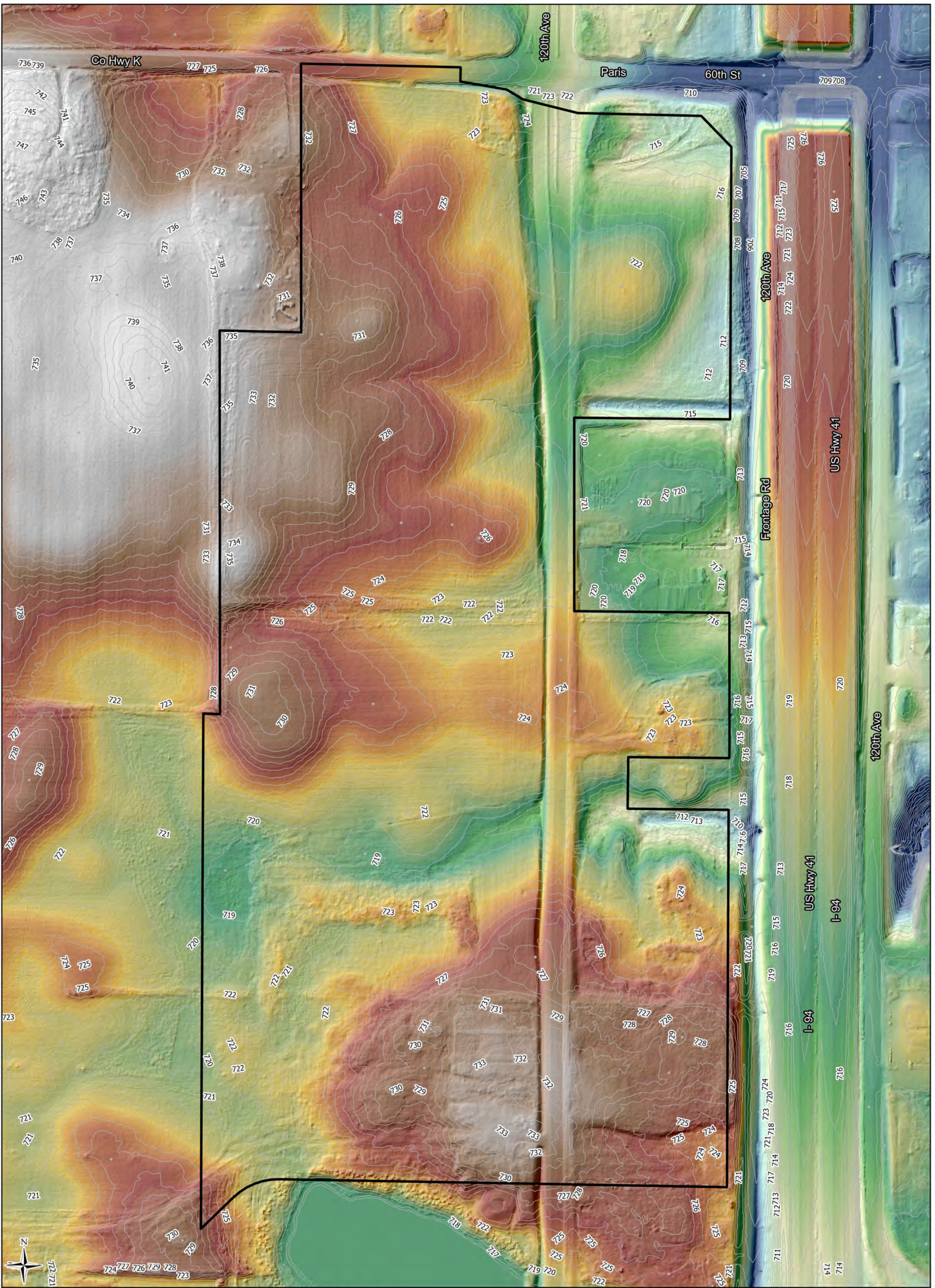
- Study Area (63.33 ac)
- WWI Polygons
- WWI Points
- Perennial Streams (None in Map Extent)
- Intermittent Streams (None in Map Extent)
- Waterbodies (None in Map Extent)

0 200 Ft

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Figure 5. Wisconsin Wetland Inventory  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2022 NAIP  
WDNR, USGS LRR: MW  
Figure Created: 7/15/2024



Study Area (63.33 ac)  
~ Kenosha Co 1' Contours

0 200 Ft

**Heartland**  
ECOLOGICAL GROUP INC

Figure 6. Color-Stretch Digital Elevation Model

60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2020 NAIP  
County Co, HEG  
LRR: MW

Figure Created: 7/15/2024



- Study Area (63.33 ac)
  - Field Delineated Wetland (2.64 ac)
  - Culvert
  - Kenosha Co 1' Contours
  - Storm Drain
- Sample Points**
- Upland
  - Wetland



**Heartland**  
ECOLOGICAL GROUP INC

**Figure 7. Field Delineated Wetlands**  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2020 NAIP  
County Co, HEG  
LRR: MW  
Figure Created: 7/25/2024

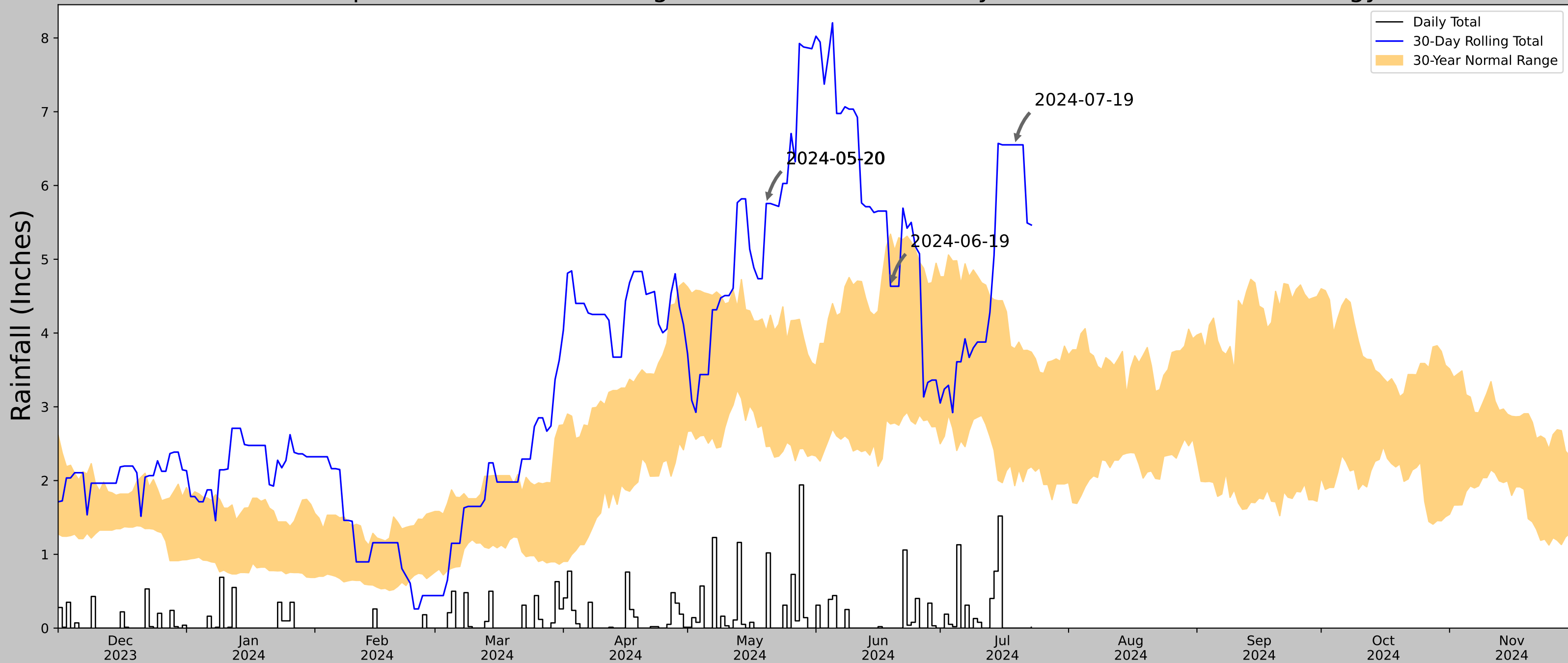


Montrose Environmental Solutions  
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Project #: 20241307  
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## Appendix B | APT Analysis

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



Coordinates	42.575908, -87.958131
Observation Date	2024-07-19
Elevation (ft)	720.351
Drought Index (PDSI)	Moderate wetness (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

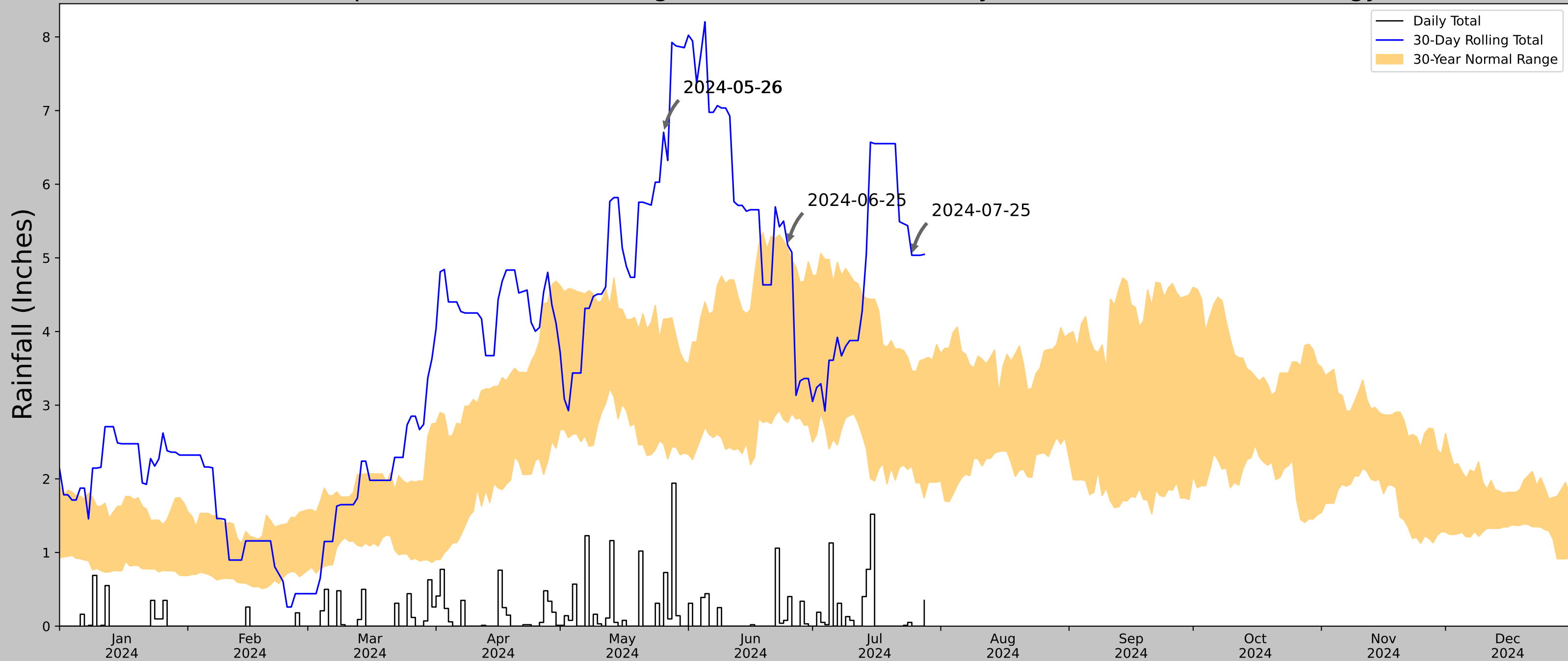
30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-19	1.930709	3.786221	6.551181	Wet	3	3	9
2024-06-19	2.767323	5.340551	4.633858	Normal	2	2	4
2024-05-20	2.461024	4.029921	5.755906	Wet	3	1	3
Result							<b>Wetter than Normal - 16</b>

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
KENOSHA RGNL AP	42.5953, -87.9383	732.94	1.677	12.589	0.776	9283	90
KENOSHA 3.8 WSW	42.5691, -87.9263	731.955	1.91	0.985	0.861	16	0
PLEASANT PRAIRIE 3.8 NW	42.5601, -87.9384	699.147	2.432	33.793	1.177	9	0
PLEASANT PRAIRIE 3.3 NW	42.5588, -87.925	712.927	2.611	20.013	1.227	1	0
KENOSHA 2.2 SW	42.5584, -87.8807	702.1	3.884	30.84	1.868	1	0
PADDOCK LAKE 4 NE	42.6053, -88.0458	724.081	5.511	8.859	2.529	1	0
UNION GROVE WWTP	42.6906, -88.0336	717.848	8.174	15.092	3.802	2031	0
KENOSHA WWTP	42.5608, -87.8156	595.144	6.682	137.796	3.928	7	0
ANTIOCH	42.4811, -88.0994	750.0	11.381	17.06	5.316	2	0
RACINE WWTP	42.7028, -87.7858	591.864	10.735	141.076	6.345	1	0

Figure and tables made by the  
**Antecedent Precipitation Tool**  
Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers

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



Coordinates	42.575908, -87.958131
Observation Date	2024-07-25
Elevation (ft)	720.351
Drought Index (PDSI)	Moderate wetness (2024-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-25	2.177559	3.46811	5.035433	Wet	3	3	9
2024-06-25	2.765748	5.12441	5.173229	Wet	3	2	6
2024-05-26	2.477165	4.167717	6.704725	Wet	3	1	3
Result							Wetter than Normal - 18

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
KENOSHA RGNL AP	42.5953, -87.9383	732.94	1.677	12.589	0.776	9283	90
KENOSHA 3.8 WSW	42.5691, -87.9263	731.955	1.91	0.985	0.861	16	0
PLEASANT PRAIRIE 3.8 NW	42.5601, -87.9384	699.147	2.432	33.793	1.177	9	0
PLEASANT PRAIRIE 3.3 NW	42.5588, -87.925	712.927	2.611	20.013	1.227	1	0
KENOSHA 2.2 SW	42.5584, -87.8807	702.1	3.884	30.84	1.868	1	0
PADDOCK LAKE 4 NE	42.6053, -88.0458	724.081	5.511	8.859	2.529	1	0
UNION GROVE WWTP	42.6906, -88.0336	717.848	8.174	15.092	3.802	2031	0
KENOSHA WWTP	42.5608, -87.8156	595.144	6.682	137.796	3.928	7	0
ANTIOCH	42.4811, -88.0994	750.0	11.381	17.06	5.316	2	0
RACINE WWTP	42.7028, -87.7858	591.864	10.735	141.076	6.345	1	0



Figure and tables made by the  
**Antecedent Precipitation Tool**  
Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers



Montrose Environmental Solutions  
60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
Project #: 20241307  
August 1, 2024

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## Appendix C | Wetland Determination Data Sheets

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P1  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.575901 Long: -87.958151 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <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 checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aerials indicate significant past disturbance in this overall area in last 15-20 years.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u><i>Acer saccharinum</i></u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b> 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. _____	_____	_____	_____	
<u>25.0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0.00</u> x 1 = <u>0.00</u> FACW species <u>40.00</u> x 2 = <u>80.00</u> FAC species <u>22.00</u> x 3 = <u>66.00</u> FACU species <u>18.00</u> x 4 = <u>72.00</u> UPL species <u>30.00</u> x 5 = <u>150.00</u> Column Totals: <u>110.00</u> (A) <u>368.00</u> (B)  Prevalence Index = B/A = <u>3.35</u>
Sapling/Shrub Stratum (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )				<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u><i>Bromus tectorum</i></u>	<u>25</u>	<u>Y</u>	<u>UPL</u>	
2. <u><i>Ambrosia trifida</i></u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
3. <u><i>Poa palustris</i></u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	
4. <u><i>Erigeron strigosus</i></u>	<u>7</u>	<u>N</u>	<u>FACU</u>	
5. <u><i>Rumex crispus</i></u>	<u>7</u>	<u>N</u>	<u>FAC</u>	
6. <u><i>Daucus carota</i></u>	<u>5</u>	<u>N</u>	<u>UPL</u>	
7. <u><i>Phragmites australis</i></u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
8. <u><i>Erigeron canadensis</i></u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
9. <u><i>Cichorium intybus</i></u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
10. <u><i>Lactuca serriola</i></u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
<u>85.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)  
Weedy old field community.

**SOIL**

Sampling Point: P1

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 <sup>1</sup>	Loc <sup>2</sup>		
0-15	10YR	3/1	100					SICL	No redox
15-24	10YR	5/2	90	10YR	5/6	10	C	M	SIC
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)									
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): _____								<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
<b>Field Observations:</b>		
Surface Water Present? Yes <input checked="" type="checkbox"/> No _____	Depth (inches): <u>1</u>	
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
2005-2022 NAIP imagery		
Remarks:		
Saturation only in upper 3-4 inches on 7/19.		
Water levels checked on 7/25. Results: No standing water, saturation, or water table.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P2  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.575777 Long: -87.957921 Datum: WGS84

Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None Depicted  
 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"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
				<u>0</u> = Total Cover
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
				<u>0</u> = Total Cover
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Daucus carota</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Elymus repens</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Poa pratensis</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
4. <u>Sonchus arvensis</u>	<u>7</u>	<u>N</u>	<u>FACU</u>	
5. <u>Trifolium pratense</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
6. <u>Ambrosia trifida</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
7. <u>Cirsium arvense</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
8. <u>Cirsium vulgare</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
9. <u>Cichorium intybus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
10. _____	_____	_____	_____	_____
				<u>92.0</u> = Total Cover
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
				<u>0</u> = Total Cover

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:		Multiply by:	
OBL species	<u>0.00</u>	x 1 =	<u>0.00</u>
FACW species	<u>0.00</u>	x 2 =	<u>0.00</u>
FAC species	<u>15.00</u>	x 3 =	<u>45.00</u>
FACU species	<u>47.00</u>	x 4 =	<u>188.00</u>
UPL species	<u>30.00</u>	x 5 =	<u>150.00</u>
Column Totals:	<u>92.00</u> (A)		<u>383.00</u> (B)

Prevalence Index = B/A = 4.16

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is >50%  
 \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Remarks: (Include photo numbers here or on a separate sheet.) Weedy old field community	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>
--	---

**SOIL**

Sampling Point: P2

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 <sup>1</sup>	Loc <sup>2</sup>							
0-8	10YR	2/1	100					SIL						
8-18	10YR	3/1	100					SICL						
18-24	10YR	5/2	70	10YR	5/4	20	C	M	SCL mixed matrix					
	10YR	3/1	10					SCL						
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>									
Remarks:														

**HYDROLOGY**

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)			
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <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"/> FAC-Neutral Test (D5)		
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____			<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 2005-2022 NAIP imagery				
Remarks: No hydrology indicators observed on 7/19. Water levels checked on 7/25. Results: No standing water, saturation, or water table				

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: WI Sampling Point: P3  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.576197 Long: -87.957462 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None Depicted

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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Phragmites australis</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Ambrosia trifida</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>75.0</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_  
 OBL species 0.00 x 1 = 0.00  
 FACW species 70.00 x 2 = 140.00  
 FAC species 5.00 x 3 = 15.00  
 FACU species 0.00 x 4 = 0.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 75.00 (A) 155.00 (B)  
 Prevalence Index = B/A = 2.07

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
--

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

**SOIL**

Sampling Point: P3

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 <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR	3/1	100					SIL	
4-18	10YR	5/1	85	10YR	5/6	5	C	M	SIC mixed matrix
	10YR	3/1	10						SIC
18-24	10YR	5/2	90	10YR	5/6	10	C	M	SIC

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

<b>Hydric Soil Indicators:</b> <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"/> 2 cm Muck (A10) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" 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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
--	--

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

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

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <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 checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<b>Field Observations:</b> Surface Water Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u> Water Table Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> Saturation Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 2005-2022 NAIP imagery	
Remarks: Hydrology indicators reviewed on 7/19 only.	

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P4  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Saddle Local relief (concave, convex, none): Convex  
 Slope (%): 3-4 Lat: 42.576428 Long: -87.957722 Datum: WGS84

Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No  (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
<u>0</u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Daucus carota</u>	<u>25</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Thlaspi arvense</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Bromus inermis</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Elymus repens</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Phalaris arundinacea</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
6. <u>Poa pratensis</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
7. <u>Ambrosia trifida</u>	<u>7</u>	<u>N</u>	<u>FAC</u>	
8. <u>Cirsium arvense</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
9. <u>Taraxacum officinale</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
10. <u>Lactuca serriola</u>	<u>4</u>	<u>N</u>	<u>FACU</u>	
<u>116.0</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_  
 OBL species 0.00 x 1 = 0.00  
 FACW species 10.00 x 2 = 20.00  
 FAC species 17.00 x 3 = 51.00  
 FACU species 64.00 x 4 = 256.00  
 UPL species 25.00 x 5 = 125.00  
 Column Totals: 116.00 (A) 452.00 (B)  
 Prevalence Index = B/A = 3.9

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is >50%  
 \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

<b>Hydrophytic Vegetation Present?</b>	Yes _____ No <input checked="" type="checkbox"/>
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Remarks: (Include photo numbers here or on a separate sheet.)  
Weedy old field community

**SOIL**

Sampling Point: P4

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 <sup>1</sup>	Loc <sup>2</sup>		
0-16	10YR 2/1		100					SICL	
16-20	10YR 5/1		90	10YR 5/4	5	C	M	SICL	Mixed matrix
	10YR 2/1		5					SICL	
20-24	10YR 6/2		95	10YR 6/6	5	C	M	SIC	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)									
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input checked="" type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
<b>Field Observations:</b>		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
2005-2022 NAIP imagery		
Remarks:		
No hydrology indicators observed, no saturation on 7/19.		
Water levels checked on 7/25. Results: No standing water, saturation, or water table.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P5  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Sideslope Local relief (concave, convex, none): None  
 Slope (%): 2-3 Lat: 42.576615 Long: -87.957838 Datum: WGS84

Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No  (If no, explain in Remarks.)  
 Are Vegetation , Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No   
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years. Problematic vegetation.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Elymus repens</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Ambrosia trifida</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Poa pratensis</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Taraxacum officinale</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Phalaris arundinacea</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
6. <u>Thlaspi arvense</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>85.0</u> = Total Cover			
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>10.00</u>	x 2 = <u>20.00</u>
FAC species <u>30.00</u>	x 3 = <u>90.00</u>
FACU species <u>45.00</u>	x 4 = <u>180.00</u>
UPL species <u>0.00</u>	x 5 = <u>0.00</u>
Column Totals: <u>85.00</u> (A)	<u>290.00</u> (B)

Prevalence Index = B/A = 3.41

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Remarks: (Include photo numbers here or on a separate sheet.) Weedy old field vegetation. Considered problematic vegetation given past soil disturbance, hydric soil, landscape position, and professional judgment.	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>
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**SOIL**

Sampling Point: P5

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 <sup>1</sup>	Loc <sup>2</sup>							
0-10	10YR	4/1	100					SICL						
10-24	10Y	6/1	75	2.5Y	6/6	15	C	M	SIC Mixed matrix					
	10YR	3/1	10						SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input checked="" type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" 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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
Remarks: Soils appearing disturbed with mixed matrix.														

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <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"/> FAC-Neutral Test (D5)		
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 2005-2022 NAIP imagery		
Remarks: Saturation upper 10 inches only; perched water table at 8 inches on 7/19. Water levels checked on 7/25. Results: No standing water, saturation, or water table. Saturation and water table appear ephemeral. Sediment deposits observed on 7/25.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P6  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.576821 Long: -87.958030 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay 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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years. See soils section.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Poa pratensis</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Persicaria pensylvanica</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Taraxacum officinale</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Cirsium arvense</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
5. <u>Ambrosia trifida</u>	<u>7</u>	<u>N</u>	<u>FAC</u>	
6. <u>Lactuca serriola</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. <u>Cirsium vulgare</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
8. <u>Bromus tectorum</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	
9. <u>Echinochloa crus-galli</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
10. <u>Phalaris arundinacea</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
	<u>84.0</u> = Total Cover			
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 66.67 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>19.00</u>	x 2 = <u>38.00</u>
FAC species <u>27.00</u>	x 3 = <u>81.00</u>
FACU species <u>35.00</u>	x 4 = <u>140.00</u>
UPL species <u>3.00</u>	x 5 = <u>15.00</u>
Column Totals: <u>84.00</u> (A)	<u>274.00</u> (B)

Prevalence Index = B/A = 3.26

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Remarks: (Include photo numbers here or on a separate sheet.)  Wet meadow.	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

**SOIL**

Sampling Point: P6

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 <sup>1</sup>	Loc <sup>2</sup>		
0-20	10YR	3/1	100					SICL	
20-24	10YR	4/1	75	10YR	5/4	5	C	M	SIC Mixed matrix
	10YR	3/1	20						SIC
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input checked="" type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): _____					Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: Soils close to meeting A12 and with past disturbance considered problematic given the other parameters, landscape position, and professional judgment.									

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>.5</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>		
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
2005-2022 NAIP imagery			
Remarks:			
Hydrology indicators recorded on 7/19 and not checked on 7/25.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P7  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.576899 Long: -87.958121 Datum: WGS84  
 Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes NWI classification: PUSC

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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years. Not normal circumstances.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
				<u>0</u> = Total Cover
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
				<u>0</u> = Total Cover
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Cirsium arvense</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Phalaris arundinacea</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Bromus tectorum</u>	<u>15</u>	<u>N</u>	<u>UPL</u>	
4. <u>Sonchus arvensis</u>	<u>7</u>	<u>N</u>	<u>FACU</u>	
5. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
6. <u>Erigeron strigosus</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
7. <u>Taraxacum officinale</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
				<u>77.0</u> = Total Cover
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
				<u>0</u> = Total Cover

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>20.00</u>	x 2 = <u>40.00</u>
FAC species <u>5.00</u>	x 3 = <u>15.00</u>
FACU species <u>37.00</u>	x 4 = <u>148.00</u>
UPL species <u>15.00</u>	x 5 = <u>75.00</u>
Column Totals: <u>77.00</u> (A)	<u>278.00</u> (B)

Prevalence Index = B/A = 3.61

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

Remarks: (Include photo numbers here or on a separate sheet.)  
**Considered problematic vegetation given past disturbance.**

**SOIL**

Sampling Point: P7

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 <sup>1</sup>	Loc <sup>2</sup>							
0-12	10YR	3/1	100					SIL						
12-20	10YR	3/1	100					SICL						
20-24	10YR	5/1	95	10YR	5/4	5	C	M	SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input checked="" type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
Remarks: Soils considered significantly disturbed and hydric under normal circumstances. Nearly meets A12 based on upper 20 inches close to being less than a 3 chroma.														

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <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"/> FAC-Neutral Test (D5)		
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>		
<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 2005-2022 NAIP imagery		
Remarks: Saturation in upper 6 inches on 7/19, non-saturated below. Perched. Water levels checked on 7/25. Results: no surface water, saturation, or water table; however sediment deposits observed.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P8  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None  
 Slope (%): 3-7 Lat: 42.575565 Long: -87.953820 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in upland grassy field. Normal circumstances not present and vegetation significantly disturbed due to recent mowing. Field possibly used for hay production, but not typically plowed/planted.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa pratensis</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Elymus repens</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Phalaris arundinacea</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>100.0</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 10.00 x 2 = 20.00  
 FAC species 50.00 x 3 = 150.00  
 FACU species 40.00 x 4 = 160.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 100.00 (A) 330.00 (B)  
 Prevalence Index = B/A = 3.3

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
--

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

Hay field

**SOIL**

Sampling Point: P8

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 <sup>1</sup>	Loc <sup>2</sup>							
0-15	10YR	3/1	100					SICL						
15-24	10YR	4/2	90	10YR	5/6	10	C	M	SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>									
Remarks:														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No wetland hydrology indicators present.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P9  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.577549 Long: -87.954027 Datum: WGS84  
 Soil Map Unit Name: Wet alluvial land NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet ditch.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix amygdaloides</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</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>100.00</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>10.0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>20.00</u> x 1 = <u>20.00</u> FACW species <u>55.00</u> x 2 = <u>110.00</u> FAC species <u>5.00</u> x 3 = <u>15.00</u> FACU species <u>0.00</u> x 4 = <u>0.00</u> UPL species <u>0.00</u> x 5 = <u>0.00</u> Column Totals: <u>80.00</u> (A) <u>145.00</u> (B)  Prevalence Index = B/A = <u>1.81</u>
Sapling/Shrub Stratum (Plot size: <u>15</u> )				
1. <u>Salix amygdaloides</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>20.0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )				
1. <u>Lemna minor</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Phragmites australis</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Phalaris arundinacea</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Solanum dulcamara</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>50.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

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

**SOIL**

Sampling Point: P9

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 <sup>1</sup>	Loc <sup>2</sup>							
0-11	10YR	4/1	90	10YR	5/6	10	C	M	SICL					
11-24	10YR	6/2	90	10YR	5/6	10	C	M	SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" 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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
<b>Remarks:</b>  														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>9</u>		
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>		
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
<b>Remarks:</b>			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P10  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex  
 Slope (%): 8-15 Lat: 42.577524 Long: -87.954097 Datum: WGS84  
 Soil Map Unit Name: Wet alluvial land NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in an upland forest.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Juglans nigra</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
2. <u>Quercus rubra</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
<u>30.0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0.00</u> x 1 = <u>0.00</u> FACW species <u>5.00</u> x 2 = <u>10.00</u> FAC species <u>70.00</u> x 3 = <u>210.00</u> FACU species <u>55.00</u> x 4 = <u>220.00</u> UPL species <u>0.00</u> x 5 = <u>0.00</u> Column Totals: <u>130.00</u> (A) <u>440.00</u> (B)  Prevalence Index = B/A = <u>3.38</u>
Sapling/Shrub Stratum (Plot size: <u>15</u> )				
1. <u>Rhamnus cathartica</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Juglans nigra</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Lonicera X bella</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
<u>65.0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )				
1. <u>Geum canadense</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Rhamnus cathartica</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Geum aleppicum</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
<u>35.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )				
1. _____				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>
2. _____				
<u>0</u> = Total Cover				

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

**SOIL**

Sampling Point: P10

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 <sup>1</sup>	Loc <sup>2</sup>		
0-11	10YR	3/2	100					SICL	
11-24	10YR	4/3	90	10YR	5/6	10	C	M	SICL
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S5)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)									
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>				
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No wetland hydrology indicators observed.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P11  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): None  
 Slope (%): 3-7 Lat: 42.577531 Long: -87.954746 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: E2K

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"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in upland grassy field. Normal circumstances not present and vegetation significantly disturbed due to recent mowing. Field possibly used for hay production.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa pratensis</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Glechoma hederacea</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Cirsium arvense</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>100.0</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 0.00 x 2 = 0.00  
 FAC species 50.00 x 3 = 150.00  
 FACU species 50.00 x 4 = 200.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 100.00 (A) 350.00 (B)  
 Prevalence Index = B/A = 3.5

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No

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

Hay field



**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P12  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 3-7 Lat: 42.577522 Long: -87.955469 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in an upland old field.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Medicago sativa</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Taraxacum officinale</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Daucus carota</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Abutilon theophrasti</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
5. <u>Persicaria lapathifolia</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
6. <u>Echinochloa crus-galli</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
7. <u>THLASPI ARVENSE</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
8. <u>Phalaris arundinacea</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>115.0</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:      Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 25.00 x 2 = 50.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 75.00 x 4 = 300.00  
 UPL species 15.00 x 5 = 75.00  
 Column Totals: 115.00 (A)    425.00 (B)  
 Prevalence Index = B/A = 3.7

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
--

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

Old field

**SOIL**

Sampling Point: P12

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 <sup>1</sup>		
0-18	10YR	3/1	100				SIL	
18-24	10YR	3/2	100				SIL	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
<b>Hydric Soil Indicators:</b>			<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>					
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)		
						<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<b>Restrictive Layer (if observed):</b>								
Type: _____								
Depth (inches): _____						Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>		
Remarks:								

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <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"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____
		Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
OSA Review Area 1		
Remarks: Area drained by storm drain to east; no D2. No hydrology indicators present.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P13  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.577052 Long: -87.957950 Datum: WGS84

Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: PUSC  
 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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years. Soils disturbed, not NC.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
				<u>0</u> = Total Cover
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
				<u>0</u> = Total Cover
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Persicaria pensylvanica</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Echinochloa crus-galli</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
3. <u>Rorippa palustris</u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
				<u>40.0</u> = Total Cover
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
				<u>0</u> = Total Cover
Remarks: (Include photo numbers here or on a separate sheet.) <b>Wet meadow.</b>				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 5.00 x 1 = 5.00  
 FACW species 35.00 x 2 = 70.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 0.00 x 4 = 0.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 40.00 (A) 75.00 (B)  
 Prevalence Index = B/A = 1.88

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

**SOIL**

Sampling Point: P13

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 <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR	3/1	100					SIL	
10-24	10YR	3/1	95	10YR	3/3	5	C	M	SICL
24-28	10YR	2/1	100						SIC
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input checked="" type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)									
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: Considered hydric soils under normal circumstances given past soil disturbance and nearly meeting F6 indicator.									

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
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? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 2005-2022 NAIP imagery			
Remarks: Saturation only for upper 10 inches on 7/19. 5 inches of surface water present. Water levels checked on 7/25. Results: no surface water, saturation, or water table.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P14  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.575811 Long: -87.955731 Datum: WGS84

Soil Map Unit Name: Ozaukee silt loam, 2 to 6 percent slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No  (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil , or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No   
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week. Historic aeriels indicate significant past disturbance in this overall area in last 15-20 years. Soils compacted-disturbed - Not NC.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Eleocharis palustris</u>	<u>25</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Phalaris arundinacea</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Hordeum jubatum</u>	<u>7</u>	<u>N</u>	<u>FAC</u>	
4. <u>Phragmites australis</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
5. <u>Schoenoplectus tabernaemontani</u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
6. <u>Trifolium hybridum</u>	<u>4</u>	<u>N</u>	<u>FACU</u>	
7. <u>Elymus repens</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>64.0</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of:      Multiply by:  
 OBL species 30.00 x 1 = 30.00  
 FACW species 20.00 x 2 = 40.00  
 FAC species 7.00 x 3 = 21.00  
 FACU species 7.00 x 4 = 28.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 64.00 (A)    119.00 (B)  
 Prevalence Index = B/A = 1.86

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Remarks: (Include photo numbers here or on a separate sheet.)  <b>Wet meadow</b>	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

**SOIL**

Sampling Point: P14

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 <sup>1</sup>	Loc <sup>2</sup>		
0-2	10YR	4/1	100					SIL	
2-8	10YR	5/3	90	7.5YR	5/6	10	C	M	SIC
8-16	10YR	6/3	65	10YR	5/6	25	C	M	SIC
	10YR	5/1	10						SIC
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input checked="" type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): <u>16</u>					Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: Auger refusal at 16 inches due to gravel-stones. Assumed development of hydric soils underway, low chroma matrix developing. Soils compacted.									

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>0</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
2005-2022 NAIP imagery			
Remarks:			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: WI Sampling Point: P15  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.575265 Long: -87.957138 Datum: WGS84  
 Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes NWI classification: W0Hx

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 _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix interior</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>40.0</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phragmites australis</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Vitis riparia</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Geum aleppicum</u>	<u>3</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>23.0</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_  
 OBL species 0.00 x 1 = 0.00  
 FACW species 63.00 x 2 = 126.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 0.00 x 4 = 0.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 63.00 (A) 126.00 (B)  
 Prevalence Index = B/A = 2.0

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
--

Remarks: (Include photo numbers here or on a separate sheet.)  
Shrub carr and shallow marsh edge of an open water pond.

**SOIL**

Sampling Point: P15

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 <sup>1</sup>	Loc <sup>2</sup>			
0-8	10YR	4/1	100					SIL	No redox	
8-12	10YR	4/1	90	10YR	5/6	10	C	M	SICL	
12-24	10YR	5/1	85	10YR	5/6	10	C	M	SIC	Mixed matrix
	10YR	4/1	5						SIC	

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

<b>Hydric Soil Indicators:</b> <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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" 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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input checked="" type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>4</u> Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 2005-2022 NAIP imagery

Remarks:  
 Water level high in pond. Adventitious roots were observed on Salix interior, now slightly under water.

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: C Kenosha / Kenosha Co Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: WI Sampling Point: P16  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Top of Slope Local relief (concave, convex, none): Convex  
 Slope (%): 3-7 Lat: 42.575330 Long: -87.957162 Datum: WGS84  
 Soil Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes NWI classification: None Depicted

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 _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Conditions were wet- 2.69 inches of rain had fallen within the last week.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>15</u> )			
1. <u>Salix interior</u>	<u>75</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>75.0</u> = Total Cover				
Herb Stratum	(Plot size: <u>5</u> )			
1. <u>Salix interior</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Phalaris arundinacea</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Bromus inermis</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Cirsium arvense</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
5. <u>Elymus repens</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
6. <u>Sonchus arvensis</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. <u>Solidago canadensis</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
8. <u>Fallopia scandens</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>70.0</u> = Total Cover				
Woody Vine Stratum	(Plot size: <u>30</u> )			
1. <u>Vitis riparia</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
<u>5.0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)  
 Total Number of Dominant Species Across All Strata: 5 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 80.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by: \_\_\_\_\_  
 OBL species 0.00 x 1 = 0.00  
 FACW species 115.00 x 2 = 230.00  
 FAC species 2.00 x 3 = 6.00  
 FACU species 33.00 x 4 = 132.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 150.00 (A) 368.00 (B)  
 Prevalence Index = B/A = 2.45

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Remarks: (Include photo numbers here or on a separate sheet.)  Shrub thicket	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
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**SOIL**

Sampling Point: P16

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 <sup>1</sup>	Loc <sup>2</sup>		
0-15	10YR	3/1	100					SIL	No redox
15-24	7.5YR	5/2	90	10YR	6/6	10	C	M	SIC
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)									
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>				
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
<b>Field Observations:</b>		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
2005-2022 NSIP imagery		
Remarks:		
Soil profile dry. No wetland hydrology indicators observed, no saturation.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P17  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 3-7 Lat: 42.579861 Long: -87.955783 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow. Farm field appears to have been plowed but not sprayed or planted this year. Normal circumstances present due to dense volunteer vegetation within field.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Echinochloa crus-galli</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Cyperus esculentus</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
3. <u>HIBISCUS TRIONUM</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	
4. <u>Ambrosia artemisiifolia</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
	<u>63.0</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____				
2. _____				
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 50.00 x 2 = 100.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 3.00 x 4 = 12.00  
 UPL species 10.00 x 5 = 50.00  
 Column Totals: 63.00 (A) 162.00 (B)  
 Prevalence Index = B/A = 2.57

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

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

**SOIL**

Sampling Point: P17

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 <sup>1</sup>	Loc <sup>2</sup>			
0-7	10YR	2/2	95	10YR	4/4	5	C	M	SIL	
7-19	10YR	3/1	90	10YR	4/4	10	C	M	SICL	
19-24	2.5Y	4/2	90	10YR	5/6	10	C	M	SIC	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)						<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)						<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S <sub>5</sub> )						<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)						<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)						<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)										
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Redox Dark Surface (F6)										
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)										
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)										
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)										
<b>Restrictive Layer (if observed):</b>										
Type: _____										
Depth (inches): _____						Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks:										

**HYDROLOGY**

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Other (Explain in Remarks)		<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
		<input type="checkbox"/> Gauge or Well Data (D9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)
				<input checked="" type="checkbox"/> Geomorphic Position (D2)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>					
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? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____	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:					
OSA Review Area 2					
Remarks:					
Surface saturation present from 0-8". D1 indicator derived from OSA; no crops planted during field visit.					

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P18  
 Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex  
 Slope (%): \_\_\_\_\_ Lat: 42.580026 Long: -87.955827 Datum: WGS84

Soil Map Unit Name: Ozaukee silt loam, 2 to 6 percent slopes, eroded 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"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Field appears to have been plowed but not sprayed nor planted this year. Normal circumstances present due to dense volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ambrosia artemisiifolia</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Polygonum aviculare</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Echinochloa crus-galli</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>30.0</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>5.00</u>	x 2 = <u>10.00</u>
FAC species <u>10.00</u>	x 3 = <u>30.00</u>
FACU species <u>15.00</u>	x 4 = <u>60.00</u>
UPL species <u>0.00</u>	x 5 = <u>0.00</u>
Column Totals: <u>30.00</u> (A)	<u>100.00</u> (B)

Prevalence Index = B/A = 3.33

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No

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

**SOIL**

Sampling Point: P18

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 <sup>1</sup>	Loc <sup>2</sup>							
0-8	10YR	4/2	100					SIL						
8-14	10YR	4/1	100					SICL						
14-24	10YR	5/3	85	10YR	5/6	10	C	M	SICL Mixed matrix					
	10YR	3/1	5					SICL						
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>									
Remarks:														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No hydrology indicators present.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P19  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 3-7 Lat: 42.579861 Long: -87.955783 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow. Farm field appears to have been plowed but not sprayed or planted this year. Normal circumstances present due to dense volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Echinochloa crus-galli</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Persicaria maculosa</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>50.0</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>50.00</u>	x 2 = <u>100.00</u>
FAC species <u>0.00</u>	x 3 = <u>0.00</u>
FACU species <u>0.00</u>	x 4 = <u>0.00</u>
UPL species <u>0.00</u>	x 5 = <u>0.00</u>
Column Totals: <u>50.00</u> (A)	<u>100.00</u> (B)

Prevalence Index = B/A = 2.0

**Hydrophytic Vegetation Indicators:**

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0<sup>1</sup>
- 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

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

**SOIL**

Sampling Point: P19

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 <sup>1</sup>		
0-9	10YR	3/2	90	10YR	4/4	10	C	M	SICL
9-24	2.5Y	5/2	80	7.5YR	4/4	20	C	M	SICL
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S <sub>5</sub> )					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input checked="" type="checkbox"/> Depleted Matrix (F3)									
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input checked="" type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
<b>Field Observations:</b>		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
OSA Review Area 3		
Remarks:		
Surface saturation present from 0-6". Drift deposits consist of last years corn stubble. D1 indicator derived from OSA; no crops planted during field visit.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P20  
 Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex  
 Slope (%): 3-8 Lat: 42.580863 Long: -87.956116 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland old field. Field appears to have been plowed but not planted or sprayed this year. Normal circumstances present due to dense volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ambrosia artemisiifolia</u>	<u>7</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Polygonum aviculare</u>	<u>7</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Persicaria maculosa</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
4. <u>Setaria faberi</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
5. <u>Hibiscus trionum</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>27.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>5.00</u>	x 2 = <u>10.00</u>
FAC species <u>7.00</u>	x 3 = <u>21.00</u>
FACU species <u>12.00</u>	x 4 = <u>48.00</u>
UPL species <u>3.00</u>	x 5 = <u>15.00</u>
Column Totals: <u>27.00</u> (A)	<u>94.00</u> (B)

Prevalence Index = B/A = 3.48

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No

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

**SOIL**

Sampling Point: P20

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 <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR	3/1	100					SICL	
10-12	10YR	3/1	95	10YR	4/3	5	C	M	SICL
12-24	10YR	5/3	70	10YR	5/6	20	C	M	SIC
	10YR	4/1	10					SIC	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S5)					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)					<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): _____						Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>			
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No hydrology indicators present.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-19  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P21  
 Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex  
 Slope (%): 3-8 Lat: 42.579665 Long: -87.955643 Datum: WGS84  
 Soil Map Unit Name: Ozaukee silt loam, 2 to 6 percent slopes, eroded NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland old field. Field appears to have been plowed but not planted or sprayed this year. Normal circumstances present due to dense volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Setaria faberi</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Hibiscus trionum</u>	<u>10</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Ambrosia artemisiifolia</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>33.0</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 0.00 x 2 = 0.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 23.00 x 4 = 92.00  
 UPL species 10.00 x 5 = 50.00  
 Column Totals: 33.00 (A) 142.00 (B)  
 Prevalence Index = B/A = 4.3

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is >50%  
 \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
--

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

**SOIL**

Sampling Point: P21

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 <sup>1</sup>	Loc <sup>2</sup>			
0-6	10YR	4/3	100					SIL		
6-14	10YR	4/1	15					SICL	Mixed matrix	
	10YR	3/1	80					SICL	Mixed matrix	
	10YR	5/3	5					SICL	Mixed matrix	
14-18	10YR	4/1	95	10YR	4/3	5	C	M	SICL	
18-24	10YR	4/1	20	10YR	5/4	3	C	M	SICL	Mixed matrix
	10YR	5/3	77						SICL	Mixed matrix

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

<b>Hydric Soil Indicators:</b> <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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> 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"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
 No hydrology indicators present.

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P22  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex  
 Slope (%): 3-7 Lat: 42.578941 Long: -87.956331 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in an upland shrubby woodland between previously farmed fields.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u><i>Acer negundo</i></u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>10.0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0.00</u> x 1 = <u>0.00</u> FACW species <u>10.00</u> x 2 = <u>20.00</u> FAC species <u>78.00</u> x 3 = <u>234.00</u> FACU species <u>90.00</u> x 4 = <u>360.00</u> UPL species <u>0.00</u> x 5 = <u>0.00</u> Column Totals: <u>178.00</u> (A) <u>614.00</u> (B)  Prevalence Index = B/A = <u>3.45</u>
Sapling/Shrub Stratum (Plot size: <u>15</u> )				
1. <u><i>Rhamnus cathartica</i></u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
<u>40.0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )				
1. <u><i>Rosa multiflora</i></u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u><i>Parthenocissus quinquefolia</i></u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u><i>Solidago canadensis</i></u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
4. <u><i>Rhamnus cathartica</i></u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
5. <u><i>Erigeron annuus</i></u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
6. <u><i>Phalaris arundinacea</i></u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
7. <u><i>Rubus idaeus</i></u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
8. <u><i>Ambrosia trifida</i></u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
9. <u><i>Arctium minus</i></u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
10. <u><i>Geum canadense</i></u>	<u>3</u>	<u>N</u>	<u>FAC</u>	
<u>128.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)  
 Up shrubby woodland. Two dead *Fraxinus pennsylvanica* in tree stratum.

**SOIL**

Sampling Point: P22

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 <sup>1</sup>	Loc <sup>2</sup>		
0-17	10YR	3/1	100					SICL	
17-24	10YR	4/3	100					SIC	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>			<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>						
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Coast Prairie Redox (A16)			
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> Dark Surface (S7)			
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Stripped Matrix (S5)			<input type="checkbox"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Mucky Mineral (F1)			<input type="checkbox"/> Very Shallow Dark Surface (TF12)			
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> 2 cm Muck (A10)			<input type="checkbox"/> Depleted Matrix (F3)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Redox Dark Surface (F6)						
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Dark Surface (F7)						
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Redox Depressions (F8)						
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): _____						Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>			
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
<b>Field Observations:</b>		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes _____ No <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: No wetland hydrology indicators observed.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P23  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave  
 Slope (%): 3-7 Lat: 42.579215 Long: -87.955275 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in an upland mowed lawn in a roadside ditch. Normal circumstances not present and vegetation significantly disturbed due to regular mowing.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Taraxacum officinale</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Daucus carota</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Glechoma hederacea</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Phalaris arundinacea</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	
5. <u>Trifolium pratense</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
6. <u>Cirsium arvense</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>36.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 25.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>5.00</u>	x 2 = <u>10.00</u>
FAC species <u>0.00</u>	x 3 = <u>0.00</u>
FACU species <u>26.00</u>	x 4 = <u>104.00</u>
UPL species <u>5.00</u>	x 5 = <u>25.00</u>
Column Totals: <u>36.00</u> (A)	<u>139.00</u> (B)

Prevalence Index = B/A = 3.86

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Up mowed lawn. Planted Poa pratensis 80% of herb stratum.

**SOIL**

Sampling Point: P23

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 <sup>1</sup>	Loc <sup>2</sup>							
0-10	10YR 2/2	80						SICL	Mixed matrix					
	10YR 4/4	20						SICL						
10-24	10YR 5/2	80	10YR 5/6	20	C	M		SIC						
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" 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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
Remarks: _____														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No wetland hydrology indicators observed. Based on lack of hydrology and other wetland indicators, ditch is presumably drained by various observed storm drains. Therefore no D2.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P24  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.578967 Long: -87.955549 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Acer negundo</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>10.0</u> = Total Cover			
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Vitis riparia</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>105.0</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 105.00 x 2 = 210.00  
 FAC species 10.00 x 3 = 30.00  
 FACU species 0.00 x 4 = 0.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 115.00 (A) 240.00 (B)  
 Prevalence Index = B/A = 2.09

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
--

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

**Wet meadow**

**SOIL**

Sampling Point: P24

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 <sup>1</sup>	Loc <sup>2</sup>							
0-14	10YR	3/1	90	10YR	5/6	10	C	M	SICL					
14-24	10YR	4/2	90	10YR	5/6	10	C	M	SICL					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)					<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
<b>Remarks:</b>  														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
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? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
<b>Remarks:</b>			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P25  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 3-7 Lat: 42.580312 Long: -87.956960 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow. Farm field appears to have been plowed but not sprayed or planted this year. Normal circumstances present.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Echinochloa crus-galli</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Ambrosia artemisiifolia</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>60.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>50.00</u>	x 2 = <u>100.00</u>
FAC species <u>0.00</u>	x 3 = <u>0.00</u>
FACU species <u>10.00</u>	x 4 = <u>40.00</u>
UPL species <u>0.00</u>	x 5 = <u>0.00</u>
Column Totals: <u>60.00</u> (A)	<u>140.00</u> (B)

Prevalence Index = B/A = 2.33

**Hydrophytic Vegetation Indicators:**

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0<sup>1</sup>
- 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

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

**SOIL**

Sampling Point: P25

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 <sup>1</sup>	Loc <sup>2</sup>			
0-9	10YR	3/2	90	10YR	4/4	10	C	M	SICL	
9-17	10YR	4/2	90	10YR	4/6	10	C	M	SICL	
17-24	10YR	5/1	80	10YR	5/6	20	C	M	SIC	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.						<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)						<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)						<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S5)						<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)						<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)						<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input checked="" type="checkbox"/> Depleted Matrix (F3)										
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Redox Dark Surface (F6)										
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)										
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)										
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)										
<b>Restrictive Layer (if observed):</b>										
Type: _____										
Depth (inches): _____						Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks:										

**HYDROLOGY**

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one is required; check all that apply)				Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)				
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)				
<b>Field Observations:</b>					
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? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	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:					
OSA Review Area 3					
Remarks:					
D1 derived from OSA. No crops planted during field visit.					

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P26  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None  
 Slope (%): 3-7 Lat: 42.580200 Long: -87.957495 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland old field. Field appears to have been plowed this year but not sprayed or planted. Normal circumstances present due to dense volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b>
Sapling/Shrub Stratum (Plot size: <u>15</u> )				Total % Cover of: _____ Multiply by: _____
1. _____	_____	_____	_____	OBL species <u>0.00</u> x 1 = <u>0.00</u>
2. _____	_____	_____	_____	FACW species <u>0.00</u> x 2 = <u>0.00</u>
3. _____	_____	_____	_____	FAC species <u>0.00</u> x 3 = <u>0.00</u>
4. _____	_____	_____	_____	FACU species <u>17.00</u> x 4 = <u>68.00</u>
5. _____	_____	_____	_____	UPL species <u>0.00</u> x 5 = <u>0.00</u>
<u>0</u> = Total Cover				Column Totals: <u>17.00</u> (A) <u>68.00</u> (B)
Herb Stratum (Plot size: <u>5</u> )				Prevalence Index = B/A = <u>4.0</u>
1. <u>Setaria faberi</u>	<u>7</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Ambrosia artemisiifolia</u>	<u>7</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Sonchus arvensis</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
4. <u>Abutilon theophrasti</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>17.00</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

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

**SOIL**

Sampling Point: P26

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 <sup>1</sup>	Loc <sup>2</sup>							
0-13	10YR	4/1	100					SICL						
13-24	10YR	6/2	90	10YR	6/6	10	C	M	SIC 5% gravel					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>									
Remarks:														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No hydrology indicators present.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P27  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None  
 Slope (%): 3-7 Lat: 42.580362 Long: -87.954456 Datum: WGS84  
 Soil Map Unit Name: Ozaukee silt loam, 2 to 6 percent slopes, eroded NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland agricultural field. Normal circumstances not present due to sparse volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Hibiscus trionum</u>	<u>15</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Plantago major</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Setaria faberi</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
4. <u>Sonchus arvensis</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>25.0</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 3.00 x 2 = 6.00  
 FAC species 5.00 x 3 = 15.00  
 FACU species 2.00 x 4 = 8.00  
 UPL species 15.00 x 5 = 75.00  
 Column Totals: 25.00 (A) 104.00 (B)  
 Prevalence Index = B/A = 4.16

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No

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

**SOIL**

Sampling Point: P27

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 <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR	4/3	100					SICL	
12-15	10YR	5/2	100					SICL	
15-24	10YR	5/2	15	7.5YR	5/4	85	C	M	SIC
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>				
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)					<input type="checkbox"/> Coast Prairie Redox (A16)				
<input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5)					<input type="checkbox"/> Dark Surface (S7)				
<input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S <sub>5</sub> )					<input type="checkbox"/> Iron-Manganese Masses (F12)				
<input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1)					<input type="checkbox"/> Very Shallow Dark Surface (TF12)				
<input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Loamy Gleyed Matrix (F2)					<input type="checkbox"/> Other (Explain in Remarks)				
<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Matrix (F3)									
<input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Redox Dark Surface (F6)									
<input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Depleted Dark Surface (F7)									
<input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Redox Depressions (F8)									
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)									
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>				
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: No hydrology indicators present.			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: WI Sampling Point: P28  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave  
 Slope (%): 3-7 Lat: 42.580214 Long: -87.954432 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2-6% slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in a wet ditch.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix amygdaloides</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>30.0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>0.00</u> x 1 = <u>0.00</u> FACW species <u>90.00</u> x 2 = <u>180.00</u> FAC species <u>5.00</u> x 3 = <u>15.00</u> FACU species <u>0.00</u> x 4 = <u>0.00</u> UPL species <u>0.00</u> x 5 = <u>0.00</u> Column Totals: <u>95.00</u> (A) <u>195.00</u> (B)  Prevalence Index = B/A = <u>2.05</u>
Sapling/Shrub Stratum (Plot size: <u>15</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )				
1. <u>Phragmites australis</u>	<u>60</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <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 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Equisetum arvense</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>65.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

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

WM/SM

**SOIL**

Sampling Point: P28

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 <sup>1</sup>	Loc <sup>2</sup>							
0-8	10YR	4/2	100					SICL						
8-16	10YR	4/2	85	10YR	5/6	15	C	M	SICL					
16-24	10YR	5/2	90	10YR	5/4	10	C	M	SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" 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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
<b>Remarks:</b>  														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____		
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2</u>		
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
<b>Remarks:</b>			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P29  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.580545 Long: -87.953816 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow. Farm field appears to have been plowed but not sprayed or planted this year. Normal circumstances not present due to sparse volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>HIBISCUS TRIONUM</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Echinochloa crus-galli</u>	<u>3</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>8.0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>3.00</u>	x 2 = <u>6.00</u>
FAC species <u>0.00</u>	x 3 = <u>0.00</u>
FACU species <u>0.00</u>	x 4 = <u>0.00</u>
UPL species <u>5.00</u>	x 5 = <u>25.00</u>
Column Totals: <u>8.00</u> (A)	<u>31.00</u> (B)

Prevalence Index = B/A = 3.88

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No

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



**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P30  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.581965 Long: -87.953874 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland meadow.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Phalaris arundinacea</u>	<u>80</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Bromus inermis</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
	<u>90.0</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____				
2. _____				
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>80.00</u>	x 2 = <u>160.00</u>
FAC species <u>0.00</u>	x 3 = <u>0.00</u>
FACU species <u>10.00</u>	x 4 = <u>40.00</u>
UPL species <u>0.00</u>	x 5 = <u>0.00</u>
Column Totals: <u>90.00</u> (A)	<u>200.00</u> (B)

Prevalence Index = B/A = 2.22

**Hydrophytic Vegetation Indicators:**

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0<sup>1</sup>
- 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

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

SOIL

Sampling Point: P30

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

Table with columns: Depth (inches), Matrix (Color (moist), %), Redox Features (Color (moist), %, Type, Loc), Texture, Remarks. Row 1: 0-24, 10YR 3/1 100, SIL.

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)
\_\_\_ 2 cm Muck (A10)
\_\_\_ Depleted Below Dark Surface (A11)
\_\_\_ Thick Dark Surface (A12)
\_\_\_ Sandy Mucky Mineral (S1)
\_\_\_ 5 cm Mucky Peat or Peat (S3)

- \_\_\_ Sandy Gleyed Matrix (S4)
\_\_\_ Sandy Redox (S5)
\_\_\_ Stripped Matrix (S5)
\_\_\_ Loamy Mucky Mineral (F1)
\_\_\_ Loamy Gleyed Matrix (F2)
\_\_\_ Depleted Matrix (F3)
\_\_\_ Redox Dark Surface (F6)
\_\_\_ Depleted Dark Surface (F7)
\_\_\_ Redox Depressions (F8)

Indicators for Problematic Hydric Soils3:

- \_\_\_ Coast Prairie Redox (A16)
\_\_\_ Dark Surface (S7)
\_\_\_ Iron-Manganese Masses (F12)
\_\_\_ Very Shallow Dark Surface (TF12)
\_\_\_ 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 [checked]

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- \_\_\_ Surface Water (A1)
\_\_\_ High Water Table (A2)
\_\_\_ Saturation (A3)
\_\_\_ Water Marks (B1)
\_\_\_ Sediment Deposits (B2)
\_\_\_ Drift Deposits (B3)
\_\_\_ Algal Mat or Crust (B4)
\_\_\_ Iron Deposits (B5)
\_\_\_ Inundation Visible on Aerial Imagery (B7)
\_\_\_ Sparsely Vegetated Concave Surface (B8)

- \_\_\_ Water-Stained Leaves (B9)
\_\_\_ Aquatic Fauna (B13)
\_\_\_ True Aquatic Plants (B14)
\_\_\_ Hydrogen Sulfide Odor (C1)
\_\_\_ Oxidized Rhizospheres on Living Roots (C3)
\_\_\_ Presence of Reduced Iron (C4)
\_\_\_ Recent Iron Reduction in Tilled Soils (C6)
\_\_\_ Thin Muck Surface (C7)
\_\_\_ Gauge or Well Data (D9)
\_\_\_ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- \_\_\_ Surface Soil Cracks (B6)
\_\_\_ Drainage Patterns (B10)
\_\_\_ Dry-Season Water Table (C2)
\_\_\_ Crayfish Burrows (C8)
\_\_\_ Saturation Visible on Aerial Imagery (C9)
\_\_\_ Stunted or Stressed Plants (D1)
\_\_\_ Geomorphic Position (D2)
\_\_\_ FAC-Neutral Test (D5) [checked]

Field Observations:

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

Wetland Hydrology Present? Yes No [checked]

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

Remarks:

No hydrology indicators present.

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P31  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None  
 Slope (%): 3-7 Lat: 42.581606 Long: -87.954807 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland agricultural field. Field appears to have been plowed but not planted this year. Normal circumstances not present due to sparse volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Setaria faberi</u>	<u>5</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Echinochloa crus-galli</u>	<u>3</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Hibiscus trionum</u>	<u>3</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Plantago major</u>	<u>3</u>	<u>Y</u>	<u>FAC</u>	
5. <u>Taraxacum officinale</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
6. <u>Sonchus arvensis</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>17.0</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 3.00 x 2 = 6.00  
 FAC species 3.00 x 3 = 9.00  
 FACU species 8.00 x 4 = 32.00  
 UPL species 3.00 x 5 = 15.00  
 Column Totals: 17.00 (A) 62.00 (B)  
 Prevalence Index = B/A = 3.65

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
--

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

**SOIL**

Sampling Point: P31

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 <sup>1</sup>	Loc <sup>2</sup>							
0-13	10YR	3/1	100					SIL						
13-16	10YR	5/2	90	10YR	5/4	10	C	M	SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: <u>Rock</u> Depth (inches): <u>16</u>					<b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>									
Remarks: <b>Auger refusal at 16in due to rock</b>														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
OSA Review Area 6			
Remarks:			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P32  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex  
 Slope (%): 3-7 Lat: 42.581517 Long: -87.955705 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in an upland old field. Farm field appears to have been plowed but not sprayed or planted this year. Normal circumstances present due to abundant volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ambrosia artemisiifolia</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Setaria faberi</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	
3. <u>HIBISCUS TRIONUM</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Echinochloa crus-galli</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>70.0</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 10.00 x 2 = 20.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 40.00 x 4 = 160.00  
 UPL species 20.00 x 5 = 100.00  
 Column Totals: 70.00 (A) 280.00 (B)  
 Prevalence Index = B/A = 4.0

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
--

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

**SOIL**

Sampling Point: P32

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 <sup>1</sup>	Loc <sup>2</sup>		
0-24	10YR	2/2	100					SICL	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
<b>Hydric Soil Indicators:</b>			<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>						
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)			
						<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
<b>Restrictive Layer (if observed):</b>									
Type: _____									
Depth (inches): _____						Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>			
Remarks:									

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
<b>Field Observations:</b>		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
		<b>Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/></b>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
OSA Review Area 5		
Remarks: No wetland hydrology indicators observed.		

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P33  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 42.582160 Long: -87.956522 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u> )				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
	<u>0</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5</u> )				
1. <u>Echinochloa crus-galli</u>	<u>70</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Persicaria maculosa</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Ambrosia artemisiifolia</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
	<u>100.0</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. _____				
2. _____				
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0.00</u>	x 1 = <u>0.00</u>
FACW species <u>90.00</u>	x 2 = <u>180.00</u>
FAC species <u>0.00</u>	x 3 = <u>0.00</u>
FACU species <u>10.00</u>	x 4 = <u>40.00</u>
UPL species <u>0.00</u>	x 5 = <u>0.00</u>
Column Totals: <u>100.00</u> (A)	<u>220.00</u> (B)

Prevalence Index = B/A = 2.2

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes  No \_\_\_\_\_

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

**Wet meadow**

**SOIL**

Sampling Point: P33

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 <sup>1</sup>	Loc <sup>2</sup>							
0-14	10YR	3/1	95	5YR	4/4	5	C	M	SICL					
14-24	10YR	4/2	90	10YR	5/6	10	C	M	SICL					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)					<input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
<b>Remarks:</b>  														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<u>7</u>
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<u>0</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
<b>Remarks:</b>			

**WETLAND DETERMINATION DATA FORM – Midwest Region**

Project/Site: 60th St and 122nd Ave Parcels City/County: Kenosha County Sampling Date: 2024-07-25  
 Applicant/Owner: Montrose Environmental Solutions State: Wisconsin Sampling Point: P34  
 Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 01 T001N R021E  
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None  
 Slope (%): 3-7 Lat: 42.581946 Long: -87.956444 Datum: WGS84  
 Soil Map Unit Name: Elliott silty clay loam, 2 to 6 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: APT analysis indicates climatic conditions are wetter than normal for the time of year. Sample point located in an upland old field. Field appears to have been plowed but not planted or sprayed this year. Normal circumstances present due to dense volunteer vegetation.	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Ambrosia artemisiifolia</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Persicaria maculosa</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Setaria faberi</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Trifolium repens</u>	<u>3</u>	<u>N</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
	<u>38.0</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33 (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 0.00 x 1 = 0.00  
 FACW species 10.00 x 2 = 20.00  
 FAC species 0.00 x 3 = 0.00  
 FACU species 28.00 x 4 = 112.00  
 UPL species 0.00 x 5 = 0.00  
 Column Totals: 38.00 (A) 132.00 (B)  
 Prevalence Index = B/A = 3.47

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
--

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

Old field

**SOIL**

Sampling Point: P34

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 <sup>1</sup>	Loc <sup>2</sup>							
0-8	10YR	3/1	100					SIL						
8-14	10YR	3/1	100					SICL						
14-18	10YR	5/2	85	10YR	5/4	15	C	M	SIC					
18-24	10YR	6/2	90	10YR	6/6	10	C	M	SIC					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
<b>Hydric Soil Indicators:</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>									
<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"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)					<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S5) <input type="checkbox"/> Loamy Mucky Mineral (F1) <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"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)				
<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____					<b>Hydric Soil Present?</b> Yes _____ No <input checked="" type="checkbox"/>									
Remarks:														

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes _____ No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes _____ No <input checked="" type="checkbox"/>	Depth (inches):	_____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
OSA Review Area 4			
Remarks: No hydrology indicators present.			



Montrose Environmental Solutions  
60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
Project #: 20241307  
August 1, 2024

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## Appendix D | Site Photographs



**Photo #1** Sample point P1



**Photo #2** Sample point P1



**Photo #3** Sample point P1



**Photo #4** Sample point P1



**Photo #5** Sample point P2



**Photo #6** Sample point P2



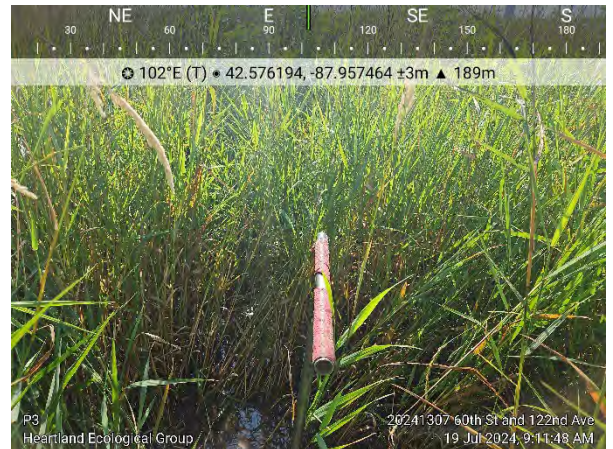
**Photo #7** Sample point P2



**Photo #8** Sample point P2



**Photo #9** Sample point P3



**Photo #10** Sample point P3



**Photo #11** Sample point P3



**Photo #12** Sample point P3



**Photo #13** Sample point P4



**Photo #14** Sample point P4



**Photo #15** Sample point P4



**Photo #16** Sample point P4



**Photo #17** Sample point P5



**Photo #18** Sample point P5



**Photo #19** Sample point P5



**Photo #20** Sample point P5



**Photo #21** Sample point P6



**Photo #22** Sample point P6



**Photo #23** Sample point P6



**Photo #24** Sample point P6



**Photo #25** Sample point P7



**Photo #26** Sample point P7



**Photo #27** Sample point P7



**Photo #28** Sample point P7



**Photo #29** Sample point P8



**Photo #30** Sample point P8



**Photo #31** Sample point P8



**Photo #32** Sample point P8



**Photo #33** Sample point P9



**Photo #34** Sample point P9



**Photo #35** Sample point P9



**Photo #36** Sample point P9



**Photo #37** Sample point P10



**Photo #38** Sample point P10



**Photo #39** Sample point P10



**Photo #40** Sample point P10



**Photo #41** Sample point P11



**Photo #42** Sample point P11



Photo #43 Sample point P11



Photo #44 Sample point P11



Photo #45 Sample point P12



Photo #46 Sample point P12



Photo #47 Sample point P12

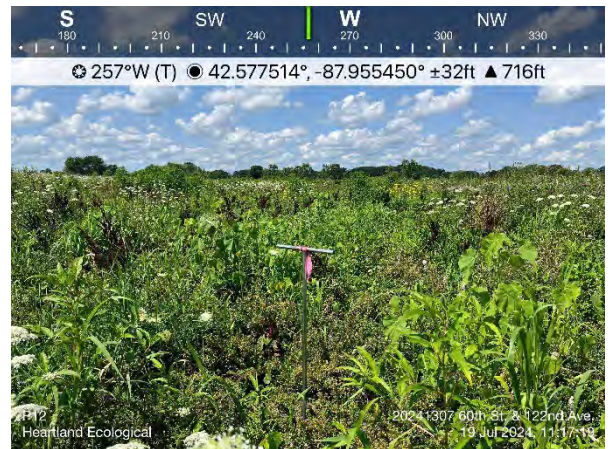


Photo #48 Sample point P12



**Photo #49** Sample point P13



**Photo #50** Sample point P13



**Photo #51** Sample point P13



**Photo #52** Sample point P13



**Photo #53** Sample point P14



**Photo #54** Sample point P14



Photo #55 Sample point P14



Photo #56 Sample point P14



Photo #57 Sample point P15



Photo #58 Sample point P15



Photo #59 Sample point P15



Photo #60 Sample point P15



**Photo #61** Sample point P16



**Photo #62** Sample point P16



**Photo #63** Sample point P16



**Photo #64** Sample point P16



**Photo #65** Sample point P17



**Photo #66** Sample point P17



**Photo #67** Sample point P17



**Photo #68** Sample point P17



**Photo #69** Sample point P18



**Photo #70** Sample point P18



**Photo #71** Sample point P18



**Photo #72** Sample point P18



**Photo #73** Sample point P19



**Photo #74** Sample point P19



**Photo #75** Sample point P19



**Photo #76** Sample point P19



**Photo #77** Sample point P20



**Photo #78** Sample point P20



**Photo #79** Sample point P20



**Photo #80** Sample point P20



**Photo #81** Sample point P21



**Photo #82** Sample point P21



**Photo #83** Sample point P21



**Photo #84** Sample point P21



**Photo #85** Sample point P22



**Photo #86** Sample point P22



**Photo #87** Sample point P22



**Photo #88** Sample point P22



**Photo #89** Sample point P23



**Photo #90** Sample point P23



**Photo #91** Sample point P23



**Photo #92** Sample point P23



**Photo #93** Sample point P24



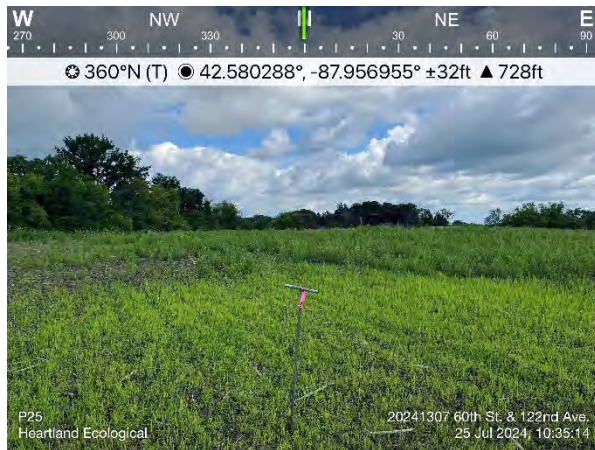
**Photo #94** Sample point P24



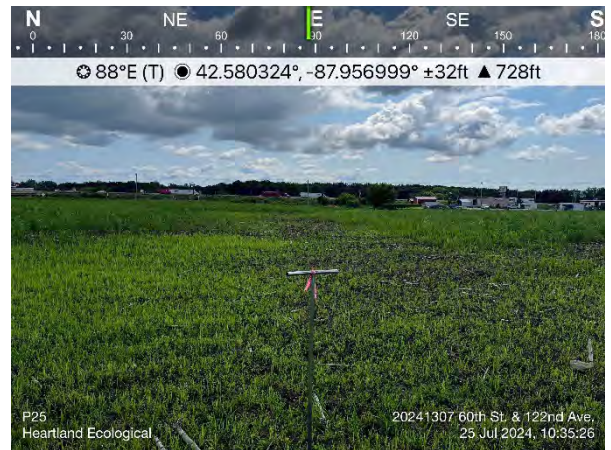
**Photo #95** Sample point P24



**Photo #96** Sample point P24



**Photo #97** Sample point P25



**Photo #98** Sample point P25



**Photo #99** Sample point P25



**Photo #100** Sample point P25



**Photo #101** Sample point P26



**Photo #102** Sample point P26



**Photo #103** Sample point P26



**Photo #104** Sample point P26



**Photo #105** Sample point P27



**Photo #106** Sample point P27



**Photo #107** Sample point P27



**Photo #108** Sample point P27



**Photo #109** Sample point P28



**Photo #110** Sample point P28



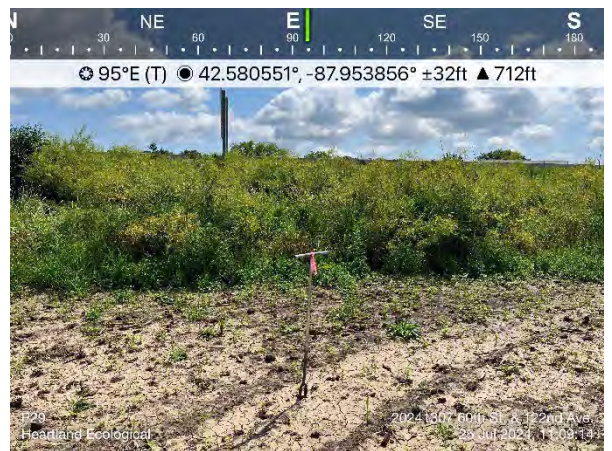
**Photo #111** Sample point P28



**Photo #112** Sample point P28



**Photo #113** Sample point P29



**Photo #114** Sample point P29



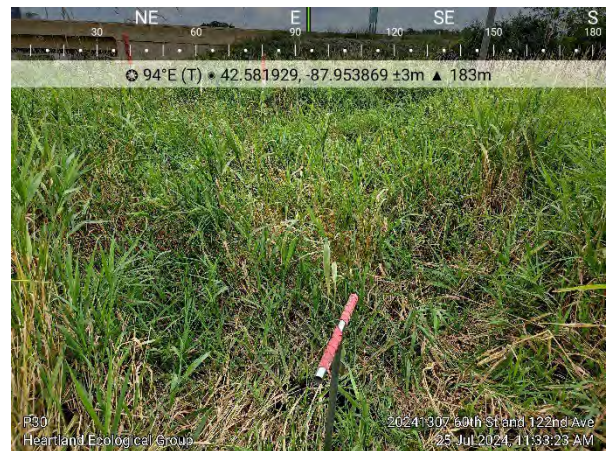
**Photo #115** Sample point P29



**Photo #116** Sample point P29



**Photo #117** Sample point P30



**Photo #118** Sample point P30



**Photo #119** Sample point P30



**Photo #120** Sample point P30



**Photo #121** Sample point P31



**Photo #122** Sample point P31



**Photo #123** Sample point P31



**Photo #124** Sample point P31



**Photo #125** Sample point P32



**Photo #126** Sample point P32



**Photo #127** Sample point P32



**Photo #128** Sample point P32



**Photo #129** Sample point P33



**Photo #130** Sample point P33



**Photo #131** Sample point P33



**Photo #132** Sample point P33



**Photo #133** Sample point P34



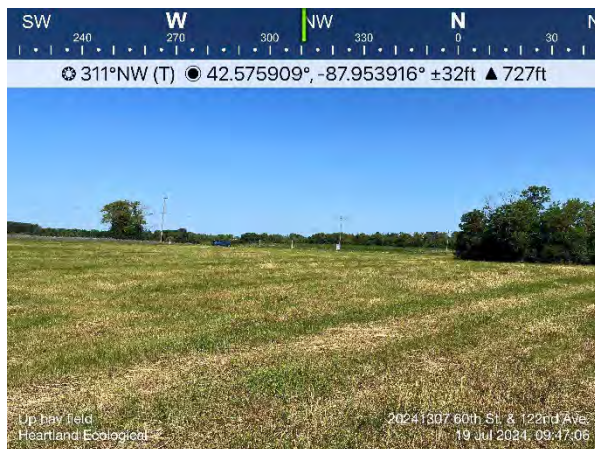
**Photo #134** Sample point P34



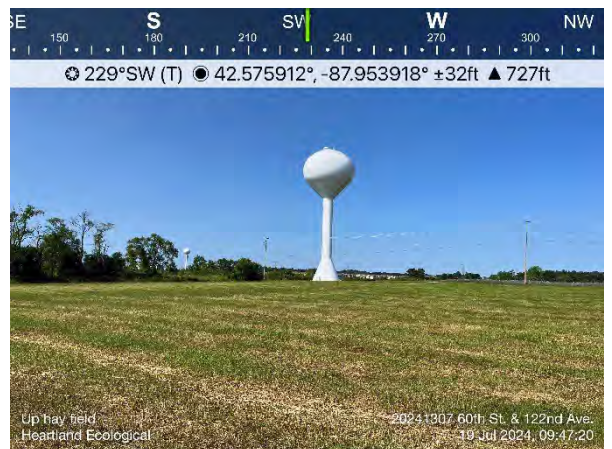
**Photo #135** Sample point P34



**Photo #136** Sample point P34



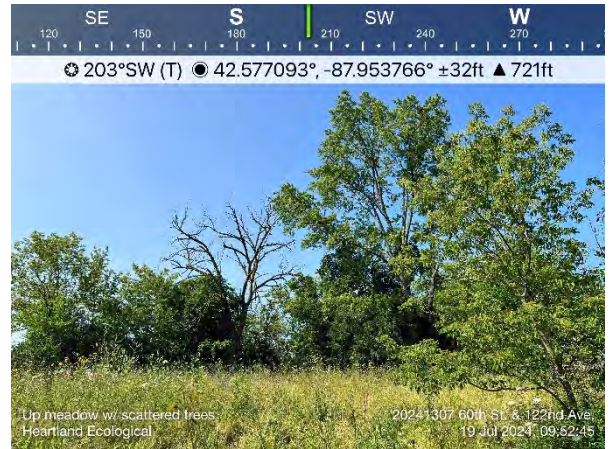
**Photo #137** Upland hay field



**Photo #138** Upland hay field



**Photo #139** Upland meadow with scattered trees



**Photo #140** Upland meadow with scattered trees



Montrose Environmental Solutions  
60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
Project #: 20241307  
August 1, 2024

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## Appendix E | Delineator Qualifications



## **Matt Stangel** **Environmental Scientist**

243 East Wilbur Avenue, Milwaukee, WI 53207  
[matt@heartlandecological.com](mailto:matt@heartlandecological.com)  
(920) 419-5634



Matt Stangel holds a B.A. degree in Geography as well as an M.S. in Freshwater Sciences and Technology from the University of Wisconsin – Milwaukee. He has over eight years of professional experience in environmental science including wetland delineation, ecological restoration, natural area management, and environmental sampling and analysis. Matt is proficient with ESRI ArcGIS software and supports Heartland's projects by processing field data and creating map figures. He has completed basic (2017) and advanced (2018) wetland delineation courses through UW-La Crosse and has assisted on hundreds of wetland delineations for public and private clientele. He is an assured wetland delineator and a certified endangered resources reviewer with the DNR, and a Wetland Professional in Training (WPIT) with the Society of Wetland Scientists.

## **Education**

MS, Freshwater Sciences and Technology, University of Wisconsin – Milwaukee, Milwaukee, WI, 2016

BA, Geography (emphasis Environmental Geography), University of Wisconsin – Milwaukee, Milwaukee, WI, 2011

## **Certifications and Licensing**

Assured Wetland Delineator, WDNR, 2022-present

Wetland Professional in Training (WPIT), Society of Wetland Scientists Professional Certification Program, 2020 - present

Certified Endangered Resources Reviewer, WDNR, 2017 - present

## **Professional Development**

Critical Methods in Wetland Delineation, University of Wisconsin - La Crosse Continuing Education and Extension, Madison, WI, 2017 - 2021

Grasses and Sedges Identification and Sampling, University of Wisconsin – Stevens Point, Schmeeckle Reserve, Stevens Point, WI, 2019

Advanced Wetland Delineation, University of Wisconsin - La Crosse, La Crosse, WI, 2018

Basic Wetland Delineation Training, University of Wisconsin – La Crosse, La Crosse, WI, 2017





Montrose Environmental Solutions  
60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
Project #: 20241307  
August 1, 2024

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## Appendix F | NAIP Imagery / Off-Site Analysis

**TABLE A1**

**Wetland Hydrology from Aerial Imagery - Recording Form\***

Project Name: 60th St. and 122nd Ave. Parcels  
Investigator: Matt Stangel

Date: 7/19/2024  
Legal Description (T, R, S): \_\_\_\_\_

County: Kenosha  
T1N R21E Sec. 1

**Summary Table**

Date Image Taken (M-Y)	Image Source	Climate Condition (wet, dry, normal)	Image Interpretation(s)				
			See Signature Areas image for general outlines of Areas 1-7				
			Area: 1 (P12)	Area: 2 (P17)	Area: 3 (P19, P25)	Area: 4 (P34)	Area: 5 (P32)
Jul-95	FSA Slide	Normal	NV/NSS	NV/NSS	NV/NSS	NV/NSS	NV/NSS
Aug-96	FSA Slide	Wet	NV/NSS	SS	NV/NSS	SS	SS
Jul-97	FSA Slide	Normal	NV/NSS	NV/NSS	DO	DO	NV/NSS
Jun-98	FSA Slide	Wet	NV/NSS	NV/NSS	NV/NSS	NV/NSS	NV/NSS
Jun-99	FSA Slide	Normal	NV/NSS	NV/NSS	NV/NSS	NV/NSS	NV/NSS
Jun-00	FSA Slide	Wet	SS	SS	SS	SS	NV/NSS
Jun-01	FSA Slide	Normal	SS	NV/NSS	NV/NSS	DO	NV/NSS
8-Jun-05	NAIP	Dry	SS	SS	SS	NV/NSS	NV/NSS
12-Jun-06	NAIP	Normal	NV/NSS	NV/NSS	NV/NSS	NV/NSS	NV/NSS
5-Jul-08	NAIP	Normal	NV/NSS	CS	CS	NV/NSS	NV/NSS
28-Jun-10	NAIP	Wet	NV/NSS	CS	CS	NV/NSS	NV/NSS
19-Jun-13	NAIP	Normal	NC, SS	CS	CS	NV/NSS	NV/NSS
22-Sep-15	NAIP	Wet	NC	CS	CS	NV/NSS	NV/NSS
22-Sep-17	NAIP	Dry	NV/NSS	CS, DO	CS, DO	NV/NSS	NV/NSS
14-Sep-18	NAIP	Normal	NV/NSS	SS	SS	NV/NSS	NV/NSS
2-Sep-20	NAIP	Wet	NV/NSS	CS	CS	NV/NSS	NV/NSS
1-May-22	Maxar	Normal	NV/NSS	SS	SS	NV/NSS	NV/NSS
23-Jun-22	NAIP	Normal	NV/NSS	CS	CS	NV/NSS	NV/NSS
<b>Normal Climate Condition</b>			<b>Area: 1 (P12)</b>	<b>Area: 2 (P17)</b>	<b>Area: 3 (P19, P25)</b>	<b>Area: 4 (P34)</b>	<b>Area: 5 (P32)</b>
<b>Number</b>			10	10	10	10	10
<b>Number with wet signatures</b>			2	5	6	2	0
<b>Percent with wet signatures</b>			20%	50%	60%	20%	0%

Key		
WS - Wetland Signature	SS - Soil Wetness Signature	CS - Crop Stress
NC - Not Cropped	AP - Altered Pattern	NV - Normal Vegetative Cover
DO - Drowned Out	SW - Standing Water	NSS - No Soil Wetness Signature
Other labels or comments:	Altered planting pattern in Area 1 in 2020 is not likely due to wetness.	

\* Images that were taken after the 20th of their respective month were evaluated under the following month's table to account for otherwise missing precipitation data from the start of the month to the date the image was recorded.

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

\* Source: [http://www.bwsr.state.mn.us/wetlands/delineation/Guidance for Offsite Hydrology and Wetland Determinations.pdf](http://www.bwsr.state.mn.us/wetlands/delineation/Guidance%20for%20Offsite%20Hydrology%20and%20Wetland%20Determinations.pdf)



**TABLE A1**

**Wetland Hydrology from Aerial Imagery - Recording Form\***

Project Name: 60th St. and 122nd Ave. Parcels  
Investigator: Matt Stangel

Date: 7/19/2024  
Legal Description (T, R, S): \_\_\_\_\_

County: Kenosha  
T1N R21E Sec. 1

**Summary Table**

Date Image Taken (M-Y)	Image Source	Climate Condition (wet, dry, normal)	Image Interpretation(s)			
			See Signature Areas image for general outlines of Areas 1-7			
			Area: 6 (P31)	Area: 7 (P29)		
Jul-95	FSA Slide	Normal	NV/NSS	NV/NSS		
Aug-96	FSA Slide	Wet	SS	SS		
Jul-97	FSA Slide	Normal	NV/NSS	NV/NSS		
Jun-98	FSA Slide	Wet	NV/NSS	NV/NSS		
Jun-99	FSA Slide	Normal	NV/NSS	NV/NSS		
Jun-00	FSA Slide	Wet	SS	SS		
Jun-01	FSA Slide	Normal	NV/NSS	CS, DO		
8-Jun-05	NAIP	Dry	NV/NSS	SS		
12-Jun-06	NAIP	Normal	NV/NSS	NV/NSS		
5-Jul-08	NAIP	Normal	NV/NSS	SS		
25-Jun-10	NAIP	Wet	NV/NSS	CS, SS		
19-Jun-13	NAIP	Normal	NV/NSS	NV/NSS		
22-Sep-15	NAIP	Wet	NV/NSS	SS		
22-Sep-17	NAIP	Dry	NV/NSS	NV/NSS		
14-Sep-18	NAIP	Normal	NV/NSS	CS		
2-Sep-20	NAIP	Wet	NV/NSS	NV/NSS		
1-May-22	Maxar	Normal	SS	SS		
23-Jun-22	NAIP	Normal	NV/NSS	WS (Green)		
<b>Normal Climate Condition</b>			<b>Area: 6 (P31)</b>	<b>Area: 7 (P29)</b>		
<b>Number</b>			10	10		
<b>Number with wet signatures</b>			1	5		
<b>Percent with wet signatures</b>			10%	50%		

Key		
WS - Wetland Signature	SS - Soil Wetness Signature	CS - Crop Stress
NC - Not Cropped	AP - Altered Pattern	NV - Normal Vegetative Cover
DO - Drowned Out	SW - Standing Water	NSS - No Soil Wetness Signature
Other labels or comments:	Altered planting pattern in Area 1 in 2020 is not likely due to wetness.	

\* Images that were taken after the 20th of their respective month were evaluated under the following month's table to account for otherwise missing precipitation data from the start of the month to the date the image was recorded.

• Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.

• If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

\* Source: [http://www.bwsr.state.mn.us/wetlands/delineation/Guidance\\_for\\_Offsite\\_Hydrology\\_and\\_Wetland\\_Determinations.pdf](http://www.bwsr.state.mn.us/wetlands/delineation/Guidance_for_Offsite_Hydrology_and_Wetland_Determinations.pdf)



**Wetland Determination from Aerial Imagery - Recording Form\***

Project Name: 60th St. and 122nd Ave. Parcels  
Investigator: Matt Stangel

Date: 7/19/2024 County: Kenosha  
Legal Description (T, R, S): T1N R21E Sec. 1

Use the decision matrix below to create Table A2

Hydric Soils Present? <sup>1</sup>	Identified on NWI or WWI? <sup>2</sup>	Percent with Wet Signatures from TABLE A1	Field Verification Required? <sup>3</sup>	Wetland?
Yes	Yes	>50%	No	Yes
Yes	Yes	30-50%	No	Yes
Yes	Yes	<30%	Yes	Yes, if other hydrology indicators are present
Yes	No	>50%	No	Yes
Yes	No	30-50%	Yes	Yes, if other hydrology indicators are present
Yes	No	<30%	No	No
No	Yes	>50%	No	Yes
No	Yes	30-50%	No	Yes
No	Yes	<30%	No	No
No	No	>50%	Yes	Yes, if other hydrology indicators are present
No	No	30-50%	Yes	Yes, if other hydrology indicators are present
No	No	<30%	No	No

<sup>1</sup> The presence of hydric soils can be determined from the "Hydric Rating by Map Unit Feature" under "Land Classifications" from the Web Soil Survey. "Not Hydric" is the only category considered to not have hydric soils. Field sampling for the presence/absence of hydric soil indicators can be used in lieu of the hydric rating if appropriately documented by providing completed field data sheets.

<sup>2</sup> At minimum, the most updated NWI data available for the area must be reviewed for this step. Any and all other local or regional wetland maps that are publically available should be reviewed.

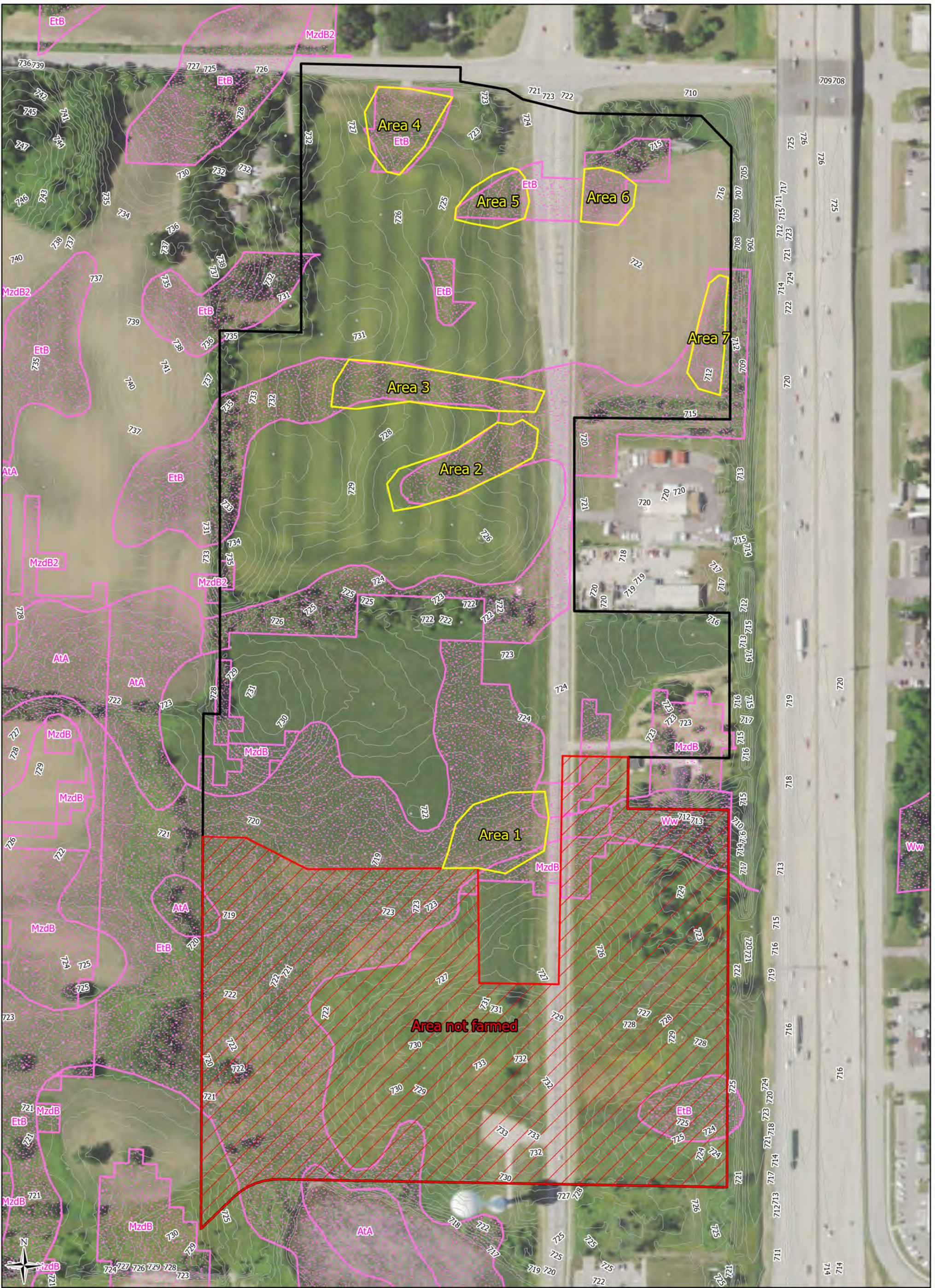
<sup>3</sup> Area should be reviewed in the field for the presence/absence of wetland hydrology indicators per the applicable 87 Manual Regional Supplement, including the D2

**TABLE A2**

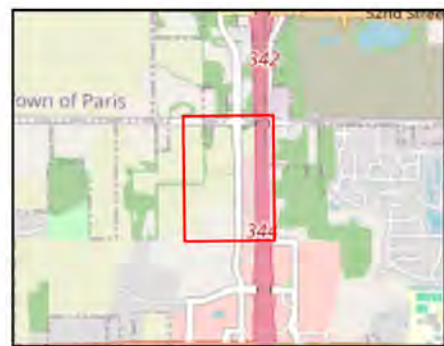
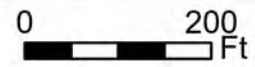
Area	Hydric Soils Present? <sup>1</sup>	Identified on NWI or WWI?	Percent with Wet Signatures from TABLE A1	Other Hydrology Indicators Present? <sup>1</sup>	Wetland?
1	No	No	20%	No	No
2	Yes	No	50%	Yes	Yes
3	Yes	No	60%	Yes	Yes
4	No	No	20%	No	No
5	No	No	0%	No	No
6	No	No	10%	No	No
7	Yes	No	50%	Yes	Yes

<sup>1</sup> Answer "N/A" if field verification is not required and was not conducted.





- Study Area (63.33 ac)
- OSA Review Area
- SWDV Wetland Indicators
- Kenosha Co 1' Contours



**Heartland**  
 ECOLOGICAL GROUP INC

**OSA Review Areas**

60th St. and 122nd Ave.  
 Project #20241307  
 T1N, R21E, S1  
 C Kenosha, Kenosha Co

2020 NAIP  
 County Co, HEG  
 LRR: MW

Figure Created: 7/30/2024

July 1995

Normal



August 1996

Wet



July 1997

Normal



June 1998

Wet



June 1999

Normal



June 2000

Wet



June 2001

Normal





 Study Area (63.33 ac)

0 200  
Ft




**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2005-06-08  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

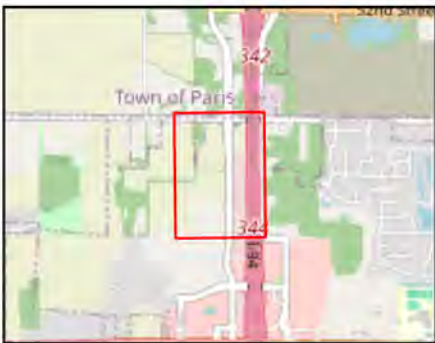
2005 NAIP  
USDA

Figure Created: 7/15/2024



 Study Area (63.33 ac)

0 200  
Ft



**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2006-06-12  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2006 NAIP  
USDA  
Figure Created: 7/15/2024




Study Area (63.33 ac)

0 200 Ft



**Heartland**  
ECOLOGICAL GROUP INC  
Appendix: 2008-07-05  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co  
2008 NAIP  
USDA  
Figure Created: 7/15/2024



 Study Area (63.33 ac)

0 200  
Ft




**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2010-06-28  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

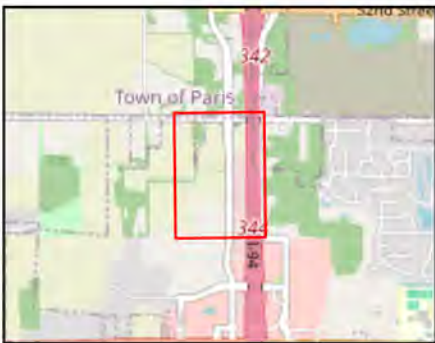
2010 NAIP  
USDA

Figure Created: 7/15/2024



 Study Area (63.33 ac)

0 200  
Ft



**Heartland**  
ECOLOGICAL GROUP INC

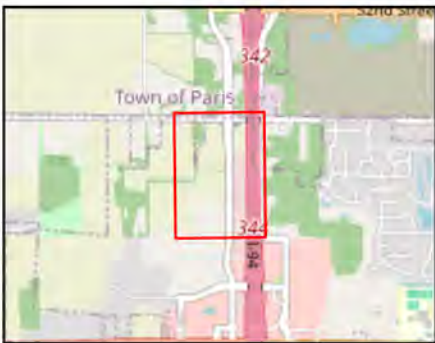
Appendix: 2013-06-19  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2013 NAIP  
USDA  
Figure Created: 7/15/2024



Study Area (63.33 ac)

0 200 Ft



**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2015-09-22  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

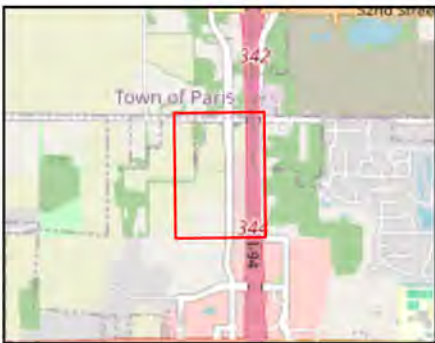
2015 NAIP  
USDA

Figure Created: 7/15/2024



Study Area (63.33 ac)

0 200 Ft



**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2017-09-22  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

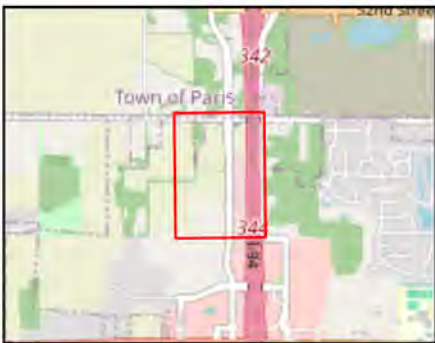
2017 NAIP  
USDA

Figure Created: 7/15/2024



Study Area (63.33 ac)

0 200 Ft




**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2018-09-14  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2018 NAIP  
USDA

Figure Created: 7/15/2024



 Study Area (63.33 ac)

0 200  
Ft




**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2020-09-02  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2020 NAIP  
USDA

Figure Created: 7/15/2024



 Study Area (63.33 ac)

0 200  
Ft



**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2022-05-01  
Maxar Sat. Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2022 Sat. Imagery  
Maxar  
Figure Created: 7/15/2024



Study Area (63.33 ac)

0 200 Ft



**Heartland**  
ECOLOGICAL GROUP INC

Appendix: 2022-06-23  
NAIP Aerial Imagery  
60th St. and 122nd Ave.  
Project #20241307  
T1N, R21E, S1  
C Kenosha, Kenosha Co

2022 NAIP  
USDA

Figure Created: 7/15/2024

# May Aerial Imagery

## Off-Site Aerial Imagery Analysis

Date	Monthly Rainfall in Inches <sup>1</sup>						Weighted Sum	Relative Wetness
	February	Weighted Precip	March	Weighted Precip	April	Weighted Precip		
May-22	1.04	2	2.79	4	4.37	6	12	Normal
30% chance less than**	1.03		1.52		2.89			
30 Year Average**	1.92		2.47		3.95			
30% chance more than**	2.34		2.98		4.65			

Kenosha Waste Water Treatment Plant

30-Year Precipitation Data (1994-2023) from NOAA Website

<http://agacis.rcc-acis.org/>

# June Aerial Imagery

## Off-Site Aerial Imagery Analysis

Date	Monthly Rainfall in Inches <sup>1</sup>						Weighted Sum	Relative Wetness
	March	Weighted Precip	April	Weighted Precip	May	Weighted Precip		
June-98	4.33	3	5.56	6	3.31	6	15	Wet
June-99	2.13	2	7.71	6	4.22	6	14	Normal
June-00	2.03	2	4.80	6	8.41	9	17	Wet
June-01	1.36	1	3.37	4	5.66	9	14	Normal
8-Jun-05	0.44	1	1.48	2	2.38	3	6	Dry
12-Jun-06	4.00	3	3.41	4	4.53	6	13	Normal
19-Jun-13	1.78	2	7.92	6	2.71	3	11	Normal
<b>30% chance less than**</b>	1.52		2.89		2.74			
<b>30 Year Average**</b>	2.47		3.95		4.03			
<b>30% chance more than**</b>	2.98		4.65		4.81			

Kenosha Waste Water Treatment Plant  
 30-Year Precipitation Data (1994-2023) from NOAA Website  
<http://agacis.rcc-acis.org/>

# July Aerial Imagery

## Off-Site Aerial Imagery Analysis

Date	Monthly Rainfall in Inches <sup>1</sup>						Weighted Sum	Relative Wetness
	April	Weighted Precip	May	Weighted Precip	June	Weighted Precip		
July-95	6.14	3	3.56	4	1.83	3	10	Normal
July-97	3.66	2	4.27	4	4.59	6	12	Normal
5-Jul-08	4.18	2	2.62	2	5.29	9	13	Normal
25-Jun-10	3.50	2	4.93	6	5.48	9	17	Wet
23-Jun-22	4.37	2	2.52	2	2.86	6	10	Normal
<b>30% chance less than**</b>	2.89		2.74		2.59			
<b>30 Year Average**</b>	3.95		4.03		4.01			
<b>30% chance more than**</b>	4.65		4.81		4.83			

Kenosha Waste Water Treatment Plant  
 30-Year Precipitation Data (1994-2023) from NOAA Website  
<http://agacis.rcc-acis.org/>

# August Aerial Imagery

## Off-Site Aerial Imagery Analysis

Date	Monthly Rainfall in Inches <sup>1</sup>						Weighted Sum	Relative Wetness
	May	Weighted Precip	June	Weighted Precip	July	Weighted Precip		
August-96	6.63	3	5.47	6	3.93	6	15	<b>Wet</b>
<b>30% chance less than**</b>	2.74		2.59		2.53			
<b>30 Year Average**</b>	4.03		4.01		3.54			
<b>30% chance more than**</b>	4.81		4.83		4.19			

Kenosha Waste Water Treatment Plant  
 30-Year Precipitation Data (1994-2023) from NOAA Website  
<http://agacis.rcc-acis.org/>

# September Aerial Imagery

## Off-Site Aerial Imagery Analysis

Date	Monthly Rainfall in Inches <sup>1</sup>						Weighted Sum	Relative Wetness
	June	Weighted Precip	July	Weighted Precip	August	Weighted Precip		
14-Sep-18	9.30	3	1.49	2	6.12	9	14	Normal
2-Sep-20	3.52	2	3.74	4	6.08	9	15	Wet
<b>30% chance less than**</b>	2.59		2.53		2.59			
<b>30 Year Average**</b>	4.01		3.54		3.77			
<b>30% chance more than**</b>	4.83		4.19		4.49			

Kenosha Waste Water Treatment Plant

30-Year Precipitation Data (1994-2023) from NOAA Website

<http://agacis.rcc-acis.org/>

# October Aerial Imagery

## Off-Site Aerial Imagery Analysis

Date	Monthly Rainfall in Inches <sup>1</sup>						Weighted Sum	Relative Wetness
	July	Weighted Precip	August	Weighted Precip	September	Weighted Precip		
22-Sep-15	2.74	2	3.44	4	4.61	9	15	Wet
22-Sep-17	9.89	3	2.54	2	0.18	3	8	Dry
<b>30% chance less than**</b>	2.53		2.59		2.06			
<b>30 Year Average**</b>	3.54		3.77		3.55			
<b>30% chance more than**</b>	4.19		4.49		4.32			

Kenosha Waste Water Treatment Plant

30-Year Precipitation Data (1994-2023) from NOAA Website

<http://agacis.rcc-acis.org/>



Montrose Environmental Solutions  
60<sup>th</sup> Street and 122<sup>nd</sup> Avenue Parcels  
Project #: 20241307  
August 1, 2024

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## Appendix G | Previous Wetland Mapping

Document Path: \\rasmith.com\wisconsin\Municipal\3170274\GIS\Wetland Figures\Figure 2 - Wetland Boundary Map.mxd

**Commercial Horizons, Inc.**  
**Mills Fleet Farm Kenosha**  
**City of Kenosha**  
**Kenosha County, Wisconsin**



**Figure 2**  
**Wetland Boundary**  
**Map**



**Map Legend**

- Sampling Point
- Culvert
- - - Off-site Wetland
- ▭ Study Area (28.88 Acres)
- ▨ Delineated Wetland (1.35 Acres)

**Wetland 5**  
**667.8 sqft**

**Wetland 6**  
**15,470.1 sqft**

**Wetland 3**  
**15,983.2 sqft**

**Wetland 4**  
**12,136.7 sqft**

**Wetland 2**  
**13,830.6 sqft**

**Wetland 1**  
**973.5 sqft**

# ***APPENDIX BIO-4***


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***NWI – NATIONAL WETLAND INVENTORY***



February 2, 2023

### Wetlands

- |   |                                |   |                                   |   |       |
|---|--------------------------------|---|-----------------------------------|---|-------|
|  | Estuarine and Marine Deepwater |    | Freshwater Emergent Wetland       |  | Lake  |
|  | Estuarine and Marine Wetland   |    | Freshwater Forested/Shrub Wetland |  | Other |
|  | Freshwater Pond                |  | Riverine                          |   |       |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.