AGENDA

CHARTER TOWNSHIP OF MERIDIAN
PARK COMMISSION REGULAR MEETING
Tuesday, October 14, 2025, 4:30pm
Service Center

REGULAR MEETING – 4:30PM

1. CALL MEETING TO ORDER

2. ROLL CALL

3. PUBLIC COMMENT

4. PRESENTATION
   A. 906 Adventure Team

5. APPROVAL OF AGENDA

6. APPROVAL OF MINUTES
   A. September 9, 2025 Park Commission Regular Meeting Minutes

7. COMMUNICATIONS
   A. October Stewardship Calendars
   B. Small Dog Park Shelter

8. DISCUSSION ITEMS
   A. Lee Moore Memorial
   B. 2026 Event List
   C. Cricket – North Meridian Park Wetland Survey

9. ACTION ITEMS

10. DIRECTOR'S REPORT
    A. Budget Updates
    B. Senior and Community Center Updates
    C. 5-Year Plan
    D. Towner and Ottawa Parks Play Structure Installations

11. PUBLIC COMMENT

12. OTHER MATTERS AND COMMISSIONERS' COMMENTS AND LIAISON REPORTS

    A. Legg Park Prescribed Burn

13. ADJOURNMENT

All comments limited to 3 minutes, unless prior approval for additional time for good cause is obtained.

Individuals with disabilities requiring auxiliary aids or services should contact Parks & Recreation Director, Courtney Wisinski: 2100 Gaylord C. Smith Court, Haslett, MI 48864 or 517.853.4600 - Ten Day Notice is Required.

MINUTES

CHARTER TOWNSHIP OF MERIDIAN
PARK COMMISSION REGULAR
MEETING
Tuesday, September 9, 2025, 4:30pm
Town Hall - Televised

REGULAR MEETING – 4:30PM

1. CALL MEETING TO ORDER
   A. Chair called the meeting to order at 4:35 PM.

2. ROLL CALL
   A. Present: Chair Nardo-Farris, Commissioners, McDonald, Rambo and Stephens were present at roll call.
   B. Commissioner Lick arrived at 4:44 PM.
   C. Staff present: Director Wisinski, Administrative Assistant Pachuki, and Parks and Land Superintendent Adams
   D. Guest: Richard Miksicek, Environmental Commission liaison

3. PUBLIC COMMENT
   A. There was no public comment.

4. PRESENTATION
   A. Parks and Recreation Land Management and Maintenance
      1. Parks and Land Superintendent Kati Adams presented a Parks, Preserves, and Pathways Maintenance Report. The DPW Utility Workers assigned to the Parks & Recreation department maintain 30 parks, 25 land preserves, 20 miles of trails within the parks, and 86.5 miles of pedestrian-bicycle pathways. There are currently 6 FTE (full-time employees) and 5 seasonal staff that perform all of this work for the township.
      2. The Park Commission expressed their appreciation of the work that the Parks and Recreation utility workers are able to accomplish, and the necessity of the additional seasonal crew.
      3. Commissioner Lick asked how prioritization worked, and how the community let the crew know about problems, and Superintendent Adams explained the current process. Commissioners McDonald, Rambo, and Stephens suggested a wider public information campaign to inform residents about the maintenance report, utilizing social media and the website. Chair Nardo-Farris inquired how the Parks and Recreation Utility workers, and their work, was funded, and Director Wisinski and Land Superintendent Adams explained the different revenue streams (general fund, Parks millages, Pathways millages, etc.).

5. APPROVAL OF AGENDA
   A. Commissioner Rambo motioned to approve the agenda. Commissioner Lick seconded.

   VOICE VOTE: Motion carried unanimously.

6. APPROVAL OF MINUTES
   A. August 11, 2025 Park Commission Regular Meeting Minutes
      1. Commissioner Rambo moved to approve the minutes of the August 11, 2025 meeting as presented, Commissioner Stephens seconded.

   VOICE VOTE: Motion carried unanimously.

7. COMMUNICATIONS
   A. September Stewardship Calendars

1. Director Wisinski acknowledged the work that the stewardship part-time staff did while Land Stewardship Coordinator Emma Campbell was out on FMLA and bereavement leave over the last few weeks. Seed collection is starting, and the staff will be completing native plantings using those seeds in the fall and spring. The Volunteer Thankquet will be held on Friday, September 26th, and celebrates all of the volunteers that work with the Parks and Recreation department to give back to our community.

B. Meridian Township Deer Management Program 2025 and Michigan State University Deer Targeted Anti-Tick Project Collaboration Memos
    1. Director Wisinski shared these deer management notification memos with the Park Commission and reminded the Park Commission that the amount of tags increased from 300 in the previous year to 350 for the 2025-2026 season. Michigan State University will continue research effective ways for oral delivery of tick medication. Director Wisinski shared that Land Stewardship Coordinator Campbell receives inquiries from other communities in Michigan about the deer management program, and has presented nationally at conferences about the program. Commissioners discussed the research being done by MSU, and asked if the research team at MSU could present some of their initial findings at a future televised meeting.

C. Commissioner Stephens motioned to place the communications on file, Commissioner Lick seconded.

VOICE VOTE: Motion carried unanimously.

8. DISCUSSION ITEMS
    A. There were no discussion items.

9. ACTION ITEMS
    A. There were no action items.

10. DIRECTOR'S REPORT
    A. Budget Updates
        a. Director Wisinski shared that there had not been much movement on the budget report since the previous Park Commission meeting. The preliminary Natural Resources Trust Fund (NRTF) grant scoring came back, and Director Wisinski will provide some supplemental information to the NRTF by October 1.
        b. Towner Road and Ottawa Hills Inclusive Playgrounds have been delivered, and the installation is planned for this fall. These playgrounds are poured-in-place, and will not require the safety surfacing of other playgrounds. Marshall Park was a turf, these two will be our first poured-in-place. Director Wisinski explained the different types of surfaces for playgrounds.
        c. Director Wisinski explained that $10,000 that the Park Commission set aside for the Red Cedar Waterway project was in addition to the funding that the Parks department has received from Ingham County. The funding from Ingham County for this year has almost all been expended. At this time, the Park Commission funding has not been spent, but Director Wisinski will work with the partner communities in the multi-jurisdictional grant to see if there are any projects that can be completed before the end of the year. Commissioner Lick expressed an interest in going out on the river with the other park commissioners.
        d. Director Wisinski shared that Superintendent Adams has found some maintenance-free picnic tables for Marshall Park to be included with the amenities, and the Parks department is still waiting to hear back on sunshades. There has been no further feedback from the residents who live near Marshall Park.
        e. Director Wisinski informed the Park Commission that she is still waiting for the results of the wetland report from the consulting company for North Meridian Road Park.
        f. Towner Road Baseball Field Restoration is complete, and baseball tryouts are starting for our club teams already.
        g. Commissioner Lick moved to place the budget report on file, Commissioner Stephens seconded.

VOICE VOTE: Motion carried unanimously.

B. Senior and Community Center Updates
    a. Township staff is continuing to explore parcels with available space. Staff is also reaching out to developers to see if there are any parcels that are not publicly listed, but may be available soon. If there are any viable spaces after the site visits, a recommendation will be made to the Township Board.
    b. Commissioner Lick asked Director Wisinski how this process differentiated from the previous task forces, and Director Wisinski explained. The Park Commission discussed millage costs, and alternatives.
C. Red Cedar Water Trail Updates
    a. Director Wisinski shared that the kayak launches are awaiting EGLE permits, and the project continues to move forward. The Haslett and Okemos Rotary Clubs have ordered signage to be installed, and they are working to have the signage installed upon delivery.
    b. Commissioner Lick suggested that the Parks department and Park Commission work together to thank donors in real-time instead of waiting for a once-a-year recognition event.
D. Famer's Market Gleaning Program Updates
    a. The Gleaning Program at the Farmers' Market has donated seventy four hundred pounds this season, and an additional home garden donation program has supplied an additional five hundred pounds.
E. Staff Updates
    a. Alex Zegarzewski started as a new Parks and Recreation Specialist on Monday, August 18th. Alex has previous experience at Meridian Township, Delta Township, the City of Pontiac, and Eaton County. He has hit the ground running, and the whole team is excited to see his contributions.
F. Volunteer Thankquet – September 26, 2025
    a. The Volunteer Thankquet was discussed in Communications.

11. PUBLIC COMMENT
    A. There was no public comment.

12. OTHER MATTERS AND COMMISSIONERS' COMMENTS AND LIAISON REPORTS
    A. Commissioner Lick did not have an update on Nokomis Cultural Center, but commented on the Eastgate Pump Track and pavilion. She also shared her appreciation of being a Park Commission member and serving her community.
    B. Commissioner Stephens did not have an update to report on the Land Preservation Advisory Board.
    C. Commissioner McDonald did not have an update to report on about the Environmental Commission, but commented on the signage at the Township's pickleball courts.
    D. Commissioner Rambo did not have an update on the Historical Village.
    E. Chair Nardo-Farris updated the Park Commission on the Township Board, including the upcoming Listening Session scheduled for September 30th at St. Luke's, Township Treasurer Deschaine's and Deputy Clerk Gordon's resignation, and that applications for the Youth Commission were open. She also reminded the commissioners that the next regular meeting for the Park Commission will be on Tuesday, October 14th at 4:30 PM at the Service Center.

13. ADJOURNMENT
    A. The meeting was adjourned at 6:30 PM.

Parks, Preserves & Pathways Maintenance Report

The DPW Utility Workers assigned to the Parks & Recreation Department maintain 30 parks comprised of 933.4 acres, 25 land preserves that total 968 acres, 20 miles of trails within the parks and 86.5 miles of pedestrian-bicycle pathways.

Ongoing maintenance each year includes:

- Mowing 215 acres (April through October)
- Tree trimming in the parks and along the pathways
- Cleaning up downed trees from storms/die-off in parks, preserves and pathways
- Trash (27 locations 58 trash cans & 25 dog bag/trash locations with 36 cans)
- Plowing and salting parking lots, sidewalks and pathways
- Collecting and disposing of residents' Christmas Trees
- Picking up dead deer throughout the township (average of 135/year)
- Mulching and weeding garden beds in the parks (16 gardens)
- Maintaining athletic fields (26 designated fields between parks/schools – which turns into 29 football/soccer fields in the fall; 22 soccer fields in the spring, 10 baseball fields)
- Preventative maintenance on fields during the offseason – restoration (seed/straw/repair)
- Trail maintenance (repairs, trimming, mowing) – 20 miles of trails in the parks
- Playground maintenance including replacing the safety surface each year (14/soon to be 16)
- Dog park maintenance (filling holes, eradicating bees and poison ivy, repairing fence lines, rolling, seeding, etc.)
- General park clean-up (fall leaves, sticks and debris in the spring to prep for mowing, graffiti and vandalism, cleaning up canoe launch from flood, clean-up from floods in low lying parks, etc.)
- Pavilion maintenance and cleaning (10 pavilions)
- Cleaning and maintaining park restrooms (10 location/23 restrooms)
- Cleaning, maintaining, winterizing, repairing and installing drinking fountains (11 fountains)
- Watering and providing mulch for HBA/DDA and Meridian Garden Club flower beds May through September (12 locations)
- Special event set-up and take down year-round (Celebrate Meridian. Chinese New Year, HNC events, dog park events, pavilion rental set-ups, MGC plant sale, Library used book sale, Pride, Juneteenth, Halloween events, etc.)

- Repairing/cold patching pathways
- Maintaining irrigation at 5 locations
- Installing new engraved bricks in the HNC Patio and Pink Garden patio at the Historical Village
- Raising and lowering American flags (5 parks) when necessary
- Installation, maintenance and tear down/storage of the artificial ice rink
- Installing and maintaining fences within the parks, preserves and along the pathways
- Planting trees
- Installing benches and signs within parks and along the pathways
- Hanging Christmas lights at Historical Village and Service Center
- Maintaining all buildings at the Historical Village including the interior/exterior and HVAC systems
- Maintaining the Harris Nature Center building (inside and out) and the grounds
- Assist Water, Sewer and Building/Grounds Departments as needed with emergencies and preventative maintenance

Work orders come from: Public Works/Engineering, Land Preserves, Parks, Historical Village, Farmers' Market, Haslett Beautification Association/DDA, Meridian Garden Club, Nokomis Learning Center and Harris Nature Center

To: **Park Commission Members**

From: **Courtney Wisinski, Director of Parks & Recreation**

and Emma Campbell, Stewardship Coordinator

Date: **September 9, 2025**

Re: **Meridian Township Deer Management Program 2025**

Meridian Township is heading in to its fourteenth year of urban deer management. Urbanization has caused an over-population of deer that has resulted in an increase in reports of vehicle/deer collisions, concern for public, and a disruption of the ecological balance of our natural areas. While these remain the priorities of our program, we will continue to grow and evolve to best serve our community as well as the health of the Township's white-tail deer population.

2025 Meridian Deer Management Overview:

- MDNR Deer Management Plan submitted and approved for 350 deer harvests utilizing Deer Management Assistance Permits (DMAP). These permits allow for antlerless harvest only.
- 62 residents are registered as volunteer archers, to enact the management program from October 1st, 2025 to January 1st, 2026.
- 43 Township properties have been selected for the 2025 management program with volunteer archers placed at each (2025 management map attached)
- 26 private properties have given permission for hunter placement during the archery season.
- All volunteers are required to donate their first deer harvested. All donated venison is delivered to local food banks, and processing costs are paid by the Michigan Department of Natural Resources. In 2024-2025, 7,468 pounds of venison was donated to 14 local food banks.
- Michigan State University will be collaborating with the Deer Management Program to conduct research on tick-borne diseases and their burden on the white-tail deer population (memo attached).

Meridian is a leader in urban deer management and provides a unique opportunity for residents to participate in important land management. Collaboration with researchers at Michigan State University and state biologists with the MDNR will continue to provide important data to aid in future management decisions for white-tail deer in the Township.

To: **Park Commission Members**

From: **Courtney Wisinski, Director of Parks & Recreation**

and Emma Campbell, Stewardship Coordinator

Date: **September 9, 2025**

Re: **Michigan State University Deer Targeted Anti-Tick Project Collaboration**

We are pleased to continue our partnership with Michigan State University conducting research on the deer and tick population utilizing the Deer Management Program. The goal of this research project is to potentially develop a deer-targeted oral drug delivery unit to reduce the environmental risk to humans due to tick-borne diseases, such as Lyme disease. The research with Meridian Township is based solely on gathering information on the deer and tick population and the potential dissemination techniques that could be used for future administration of anti-tick medication. This year the study will also begin collecting data on the age structure and sex ratio of the harvested deer. As a result of this collaboration, Meridian Township will benefit from data received, which will provide information on our deer herd numbers as well as the rate of Lyme disease in the Township.

Objectives of the study:

- Quantify questing tick abundance and parasitism of deer.
- Quantify deer and non-target wildlife species use of field sites for potential deployment of oral medication delivery units.
- Quantify consumption rates of a food product designed to deliver medications to white-tailed deer at different times of year.
- Quantify update of a placebo biomarker (rhodamine B) by deer to examine theoretical uptake of medication.
- Communicate project goals and results to Township officials and public.
- Study fawn mortality rates in the Township.
- Quantify the sex ratio and age distribution of the Township deer population

Michigan State researchers will continue the project through the 2025-2026 deer management season, conducting field recon prior to the archery season to ensure study sites are chosen with little to no public activity. There will be six to eight sites of study total across Township lands. The study will remain in effect until May 2026. Township staff place high value on research collaboration with Michigan State University, and the benefits future studies will provide for the local wildlife, natural areas, and residents of Meridian Township.

Meridian Township Parks & Recreation Budget Report - September 2025				
Park Millage				
Project Name	**2025 Approved**	**2025 Encumbered**	**2025 Remaining Balance**	**Updated Project Notes**
NRTF	$150,000	$0	$150,000	NRTF Grant Match
Towner Road and Ottawa Hills Inclusive Playground	$350,000	$331,090	$18,910	Delivered and installation planned for fall
Red Cedar Waterway Project	$10,000	$0	$10,000	In progress
Marshall Park Amenities	$50,000	$0	$50,000	Requested bid for shade structures and seating
Cricket Engineering/Site Prep	$100,000	$0	$100,000	Professional Services - wetland delineation complete
Towner Road Baseball Field Restoration	$30,000	$30,000	$0	Complete

OCTOBER

CONNECT
LEARN
CONSERVE

MCC
MERIDIAN CONSERVATION CORPS

STEWARDSHIP

STEWARDSHIP SATURDAYS | 9:30 AM - 12 PM

These workdays occur every other Saturday year round.

- October 4th, Red Cedar Glen Preserve, Invasive Shrub Removal
  - End of Sylvan Glen Drive, Okemos MI (park on the road)
- October 18th, Ted Black Woods, Invasive Shrub Cutting
  - 4714 Van Atta Rd, Okemos MI
- November 1st, Lake Lansing North Preserve, Native Seed Collection
  - 1000 Wild Ginger Trail, Haslett MI

WEEKDAY WARRIORS | 1 PM - 3 PM

Occurs every other Thursday

- October 9th, Central Park South, Trash Pickup
  - 1990 Central Park Dr., Okemos
- October 23rd,Township Service Center, Seed Sorting Party
  - 2100 Gaylord C. Smith Court, Haslett MI

TRAILSIDE ECOLOGY : CREEPY COOL CRITTERS

- Fall is a great time to explore the world of animals that are often misunderstood! Slimy, flighty, fast, jumpy, and crawly creatures can give folks the heeby jeebies, but they serve an important role in our ecosystems. We can't wait to see some creepy cool critters! Costumes welcome. 🎃
  - Legg Park, 3900 Van Atta Rd, OKemos, MI

***ALL EVENTS ARE WEATHER DEPENDENT & MAY BE CANCELLED THE DAY OF**

S	M	T	W	T	F	S
			1	2	3	4 STEWARDSHIP SATURDAY 9:30 - 12 PM
5	6	7	8	9 WEEKDAY WARRIORS 1-3 PM	10	11
12	13	14 CREEPY COOL CRITTERS 5:30 - 7 PM	15	16	17	18 STEWARDSHIP SATURDAY 9:30-12 PM
19	20	21	22	23 WEEKDAY WARRIORS 1-3 PM	24	25
26	27	28	29	30	31	1 STEWARDSHIP SATURDAY 9:30-12 PM

PLEASE CONTACT EMMA AT ECAMPBELL@MERIDIAN.MI.US, OR 517.897.3610

Hannah Pachucki

From: Meridian Township, MI <webmaster@meridian.mi.us>
Sent: Wednesday, October 1, 2025 12:42 PM
To: Courtney Wisinski
Subject: small dog park shelter request

Message submitted from the <Meridian Township, MI> website.

Site Visitor Name: Vin Lyon-Callo
Site Visitor Email: Vlyoncallo@gmail.com

Hello. Thanks for your comments on the request for a shelter at the small dog park at the meeting last night. People who use the park daily asked me this morning what happened at the meeting and if I would write to clarify a couple of things. We are not looking for a big space--just a small shelter that could help a few seniors get out of the ice and snow in the winter would be a great help. I know the township is looking to serve the needs of our seniors. About three dozen seniors and their dogs utilize the dog park regularly. It has become a bit of a community center and senior center. But, with winter coming, there is concern that the community will be disrupted by the weather. And, of course, there is concern about safety with people falling in the snow/ice (I had to help two different people last winter who fell in the snow and couldn't get up and I actually broke my wrist falling on the ice). That is why we are hoping for a small shelter on the flat part of the park near the gate--just something like the dugouts by the baseball fields with some siding to block the wind and snow/rain would be wonderful.

Several people also requested that you might let us know when you might be bringing this to the attention of the parks commission as a few want to attend the meeting.

Thank you,

Vin Lyon-Callo

2026 Recreation and Events

JANUARY

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Skate Party		Mike	$200	$0
Family/Teen Sledding Party		Mike	$100	$0
Meridian Cares Polar Bear 5K				
ATHLETICS				
Basketball Leagues		Mike		
Basketball Clinic		Mike		

FEBRUARY

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Chinese New Year		Alex	$1,000	$1,000
Black History Month		Alex		
Skate Party		Mike	$200	$0
ATHLETICS				
Basketball Leagues		Mike		
Basketball Clinic		Mike		

MARCH

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Women's History Month - International Women's Day	8	Court		
Holi Celebration		Alex		
ATHLETICS				
Basketball Leagues		Mike		

APRIL

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Spring Recycling Event/Earth Day		Alex	$0	$0
Easter Egg Hunt		Mike	$7,000	$7,000
Red Cedar River Run Paddle Event		Alex		
Passover		?		
ATHLETICS				
Baseball (Pony League)		Alex		
Spring Soccer		Mike		

2026 Recreation and Events

MAY

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Memorial Day Ceremony	26	Clerk	$0	$0
Victorian Tea in the Village		Colgrove	$100	$0
Summer Concert Series		Mike	$9,300	$9,300
Meridian Pride Fest		Alex	$5,000	$5,000
ATHLETICS				
Spring Soccer		Mike		
T-Ball		Mike		
Baseball (Rec and Pony)		Alex		
Softball		Alex		
Adult Softball		Alex		
Adult Sand Volleyball		Mike		

JUNE

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Juneteenth	20	Clark	$5,000	$5,000
Summer Concert Series		Mike	$1,500	$0
Fishing Derby		Mike	$100	$0
Puzzle Night		Mike		
Movie in the Parks		Alex		
Dragon Boat Festival		Alex		
ATHLETICS				
T-Ball		Mike		
Baseball (Rec and Pony)		Alex		
Softball		Alex		
Adult Softball		Alex		
Adult Sand Volleyball		Mike		
Sporties		Mike		

JULY

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Parks and Rec Month - Rec on the Move		Alex		
Summer Concert Series		Mike	$0	$0
Puzzle Night		Mike		
Celebrate - Teen's		Mike	$1,450	$0
Celebrate Block Party		Court	$46,720	$25,000
Movie in the Parks		Alex		
ATHLETICS				
Softball (U10, U12 and U14)		Alex		
Adult Softball		Alex		
Wiffleball		Alex		
Adult Volleyball		Mike		
Sporties	All	Mike		

https://www.m

AUGUST

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Summer Concert Series			$0	$0
Children's Concert Series			$700	$0
Puzzle Night				
Movie in the Parks				
ATHLETICS				
Kickball				
Adult Volleyball				
Sporties	All	Devlin		

2026 Recreation and Events

SEPTEMBER

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Summer Concert Series		Mike	$0	$0
Fall Electronics Recycling Event		Alex	$0	$0
Puzzle Night		Mike		
River Days		Alex/Ben		
Hispanic Heritage Month		Alex		
ATHLETICS				
OBC/HBC Tryouts		Alex		
Adult Volleyball		Mike		
Soccer		Mike		
Flag Football		TBD		
Playmakers Run Club		Alex		
Sporties		Mike		

OCTOBER

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Heritage Fest		Colgrove	$500	$0
Historical Village Halloween		Colgrove	$200	$0
Non-Member Dog Park Party		Mike	$100	$100
Large Dog Park Party		Mike	$100	$100
Small Dog Park Party		Mike	$100	$100
Haloween Spooktakular		Mike	$3,100	$3,100
Volunteer Thankquet		Campbell	$750	$0
ATHLETICS				
Soccer		Mike		
Flag Football		TBD		
Playmakers Run Club		Alex		
Sporties		Mike		

NOVEMBER

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Dark Sky Event		Alex		

DECEMBER

Name	Date	Organizer	Event Costs	Budgeted
EVENTS				
Christmas in the Village		Colgrove	$200	$0
Santa Paws		Mike	$650	$0
Woodland Stroll Santa		Mike	$650	$0

Event Expenses Subtotal	$83,970
Sponsorship Revenue	$41,667
Remaining Funds Needed	**-$42,303**

fishbeck
Engineers | Architects | Scientists | Constructors

5913 Executive Drive, Suite 100
Lansing, Michigan 48911

517.882.0383 | fishbeck.com

September 23, 2025
Project No. 2501009

Courtney Wisinski
Director of Parks and Recreation
2100 Gaylord C. Smith Court
Haslett, MI 48840

Wetland Delineation – Cricket Field
Meridian Township, Ingham County, Michigan

On August 8, 2025, Fishbeck staff conducted a site investigation to identify and delineate wetlands within approximately 6.5 acres of undeveloped land at Meridian Road Park, aiming to determine if there was sufficient space for a potential cricket field. Additionally, the undeveloped area to the east was inspected for upland areas; however, it was observed to contain extensive wetlands. Due to the extensive wetlands and lack of sufficient uplands in the area to the east, that area was not further investigated. The 6.5 acres located in Meridian Township, Michigan (the Area of Investigation or AOI) is in Meridian Road Park, west of Meridian Road. See Figure 1.

Methodology

The wetland delineation was conducted consistent with the 1987 *Corps of Engineers (USACE) Wetlands Delineation Manual* and the 2012 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0). The wetland identification and delineation procedures outlined in these manuals require evaluating vegetation, soils, and hydrologic characteristics to determine if a wetland is present. Hydrophytic vegetation decisions are based on the wetland indicator status of plant species that are dominant in the vegetation community. Species with indicator statuses of obligate wetland (OBL), facultative wetland (FACW), and facultative (FAC) are considered wetland species, while species with indicator statuses of facultative upland (FACU) and upland (UPL) are considered upland species. FAC species are also commonly present in upland plant communities. An area must typically contain dominant wetland vegetation, hydric (wetland) soil, and wetland hydrology to be classified as a wetland.

Literature Review

Fishbeck reviewed publicly available data to gather information about the AOI before the site investigation.

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) *Web Soil Survey* provides hydric ratings for soil map units based on whether map units meet the criteria for hydric soils. According to the USDA NRCS's *Web Soil Survey* database, approximately 75 percent of the AOI consists of soil series that have low hydric ratings (0-10 percent), with only 25 percent of the AOI containing a soil series with an 80 percent rating (Colwood-Brookston loams). Please refer to Figure 2 for the Soils Map.

The National Wetlands Inventory (NWI) database depicts a forested and scrub-shrub wetland along the western boundary of the AOI with an emergent wetland to the east of the AOI. The forested wetland overlaps an area identified as having hydric soils in the NRCS database. Please refer to Figure 3 for the NWI Map.

Site Investigation

Fishbeck staff traversed the AOI on August 8, 2025. The AOI was primarily an open field with forest and scrub-shrub habitat on the peripheries. The center of the AOI was the highest point in the AOI, and it sloped down to the east, south, and west.

Wetland boundaries were flagged, and wetland boundary points were collected with a handheld Trimble R1 Global Navigation Satellite Systems (GNSS) receiver with submeter accuracy. The wetland boundaries are shown on Figure 4. Data pertaining to soil, vegetation, and hydrology were collected at sampling points within the wetlands and adjacent uplands. This data is summarized on U.S. Army Corps of Engineers (USACE) Wetland Determination Data Forms, included as Attachment 1. Site photographs are included as Attachment 2.

Wetlands

Two wetlands were delineated within the AOI: Wetland A and Wetland C. While investigating the surrounding area to determine if the area was suitably sized for a cricket field, a third wetland was delineated to the south, outside of the AOI. Only Wetlands within the AOI are discussed further.

Wetland A was predominantly outside of (east of) the AOI, with a small portion of forested wetland being within the AOI at the eastern boundary. Within the AOI, Wetland A was 0.02 acre in size. Wetland C was the entire length of the western boundary and extended into the AOI from 88 to 200 feet. Within the AOI, Wetland C was approximately 1.47 acres in size.

Wetland hydrology, dominant hydrophytic vegetation, and hydric soils were confirmed at wetland sample points SP-01 and SP-05. At SP-01, dominant plants present at the sampling locations were red maple (*Acer rubrum*, FAC), quaking aspen (*Populus tremuloides*, FACU), glossy false buckthorn (*Frangula alnus*, FAC), green ash (*Fraxinus pennsylvanica*, FAC), and smooth goldenrod (*Solidago gigantea*, FACW). At SP-05, dominant plant species present included silky dogwood (*Cornus amomum*, FACW), Allegheny blackberry (*Rubus allegheniensis*, FACU), white meadowsweet (*Spiraea alba*, FACW), flat-top goldentop (*Euthamia graminifolia*, FAC), reed canary grass (*Phalaris arundinacea*, FACW), and Canada goldenrod (*Solidago altissima*, FACU).

Soil pits were dug to depths of 18 inches at each sampling location. SP-01 consisted of a depleted soil matrix, and SP-05 exhibited redoximorphic features in a sandy soil; both are indicative of hydric soil conditions. SP-01 and SP-05 had multiple secondary hydrology indicators. See the USACE Data forms in Attachment 1 for additional details.

Uplands

Upland conditions in the AOI were documented at SP-02 and SP-06. Approximately 5.01 acres of the AOI were uplands. Upland soil pits were dug to a depth of 18 inches and did not reveal any hydric soil indicators; no hydrology indicators were present. Dominant plant species included species with indicator statuses of FAC, FACU, and UPL, with FACU and UPL species being more prevalent overall. These did not meet hydrophytic vegetation indicator tests, and due to the lack of wetland soils and hydrology being present, the areas were uplands.

Regulatory Review and Conclusions

According to Section 30301(d) of Michigan's Natural Resources and Environmental Protection Act (NREPA), Act 451, Part 303, Wetlands Protection, wetlands are regulated if "contiguous to the Great Lakes or Lake St. Clair, an inland lake or pond, or a river or stream" or "more than 5 acres in size" are regulated by the State of Michigan. "Contiguous" is defined as being within 500 feet of an inland lake, pond, river, or stream.

Fishbeck staff identified the two segments of the Foster Drain (Ingham County Drain and regulated stream) as the nearest regulating features.

Table 1 below provides an overview of the AOI wetlands, their size within the AOI, and the anticipated regulatory status. EGLE has the final authority in the regulatory status of the wetlands and jurisdiction under Part 303, Wetlands Protection, of the NREPA.

Table 1: Summary of Wetlands in the AOI

Wetland	Size (Acres within AOI)	Regulated by the State of Michigan	Regulated by Meridian Township
A	0.02	Unlikely: Less than 5 acres in size, more than 500 feet from a regulating feature, no potential for overland flow to a regulating feature observed.	Yes: Overall size greater than 2 acres
C	1.47	Yes: Overall wetland size is greater than 5 acres.	Yes

A permit would be required from EGLE for any of the following activities in a regulated wetland:

- Placing fill or permitting the placement of fill.
- Dredging, removing, or permitting the removal of soil or minerals.
- Constructing, operating, or maintaining any use or development.
- Draining surface water.

If you have any questions or require additional information, please contact Kenny McMahon at 616.464.3773 or kmcmahon@fishbeck.com. Alternatively, you may contact Liz Theile at 989.798.8662 or etheile@fishbeck.com.

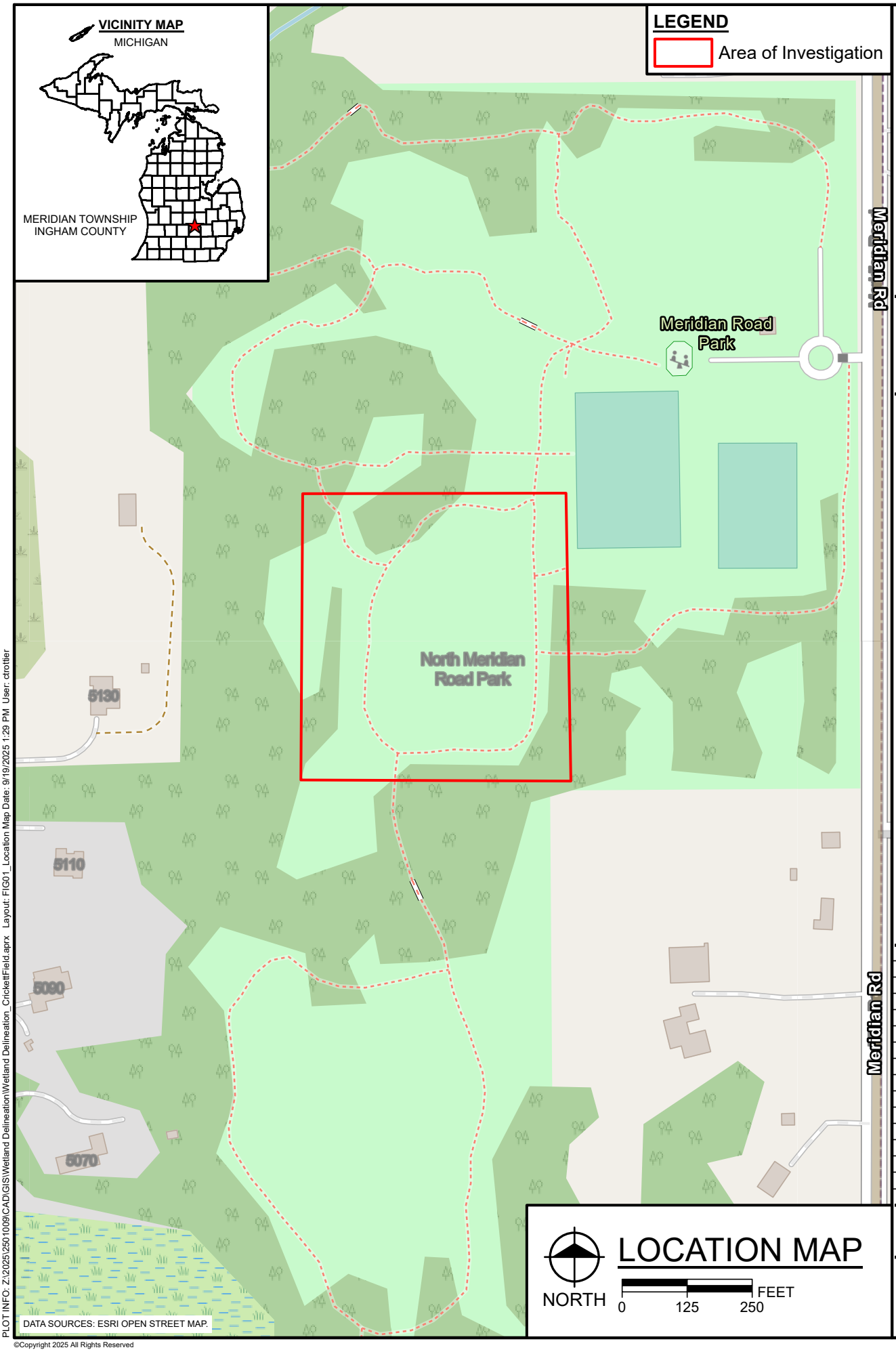
Sincerely,

Kenny McMahon
Wetland Scientist/Biologist

Elizabeth Theile, PWS, CWB
Senior Wetland Scientist

Attachments
By email

Figures



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Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Meridian Township Parks and Recreation

North Meridian Road Park, Meridian Township, Ingham County, Michigan

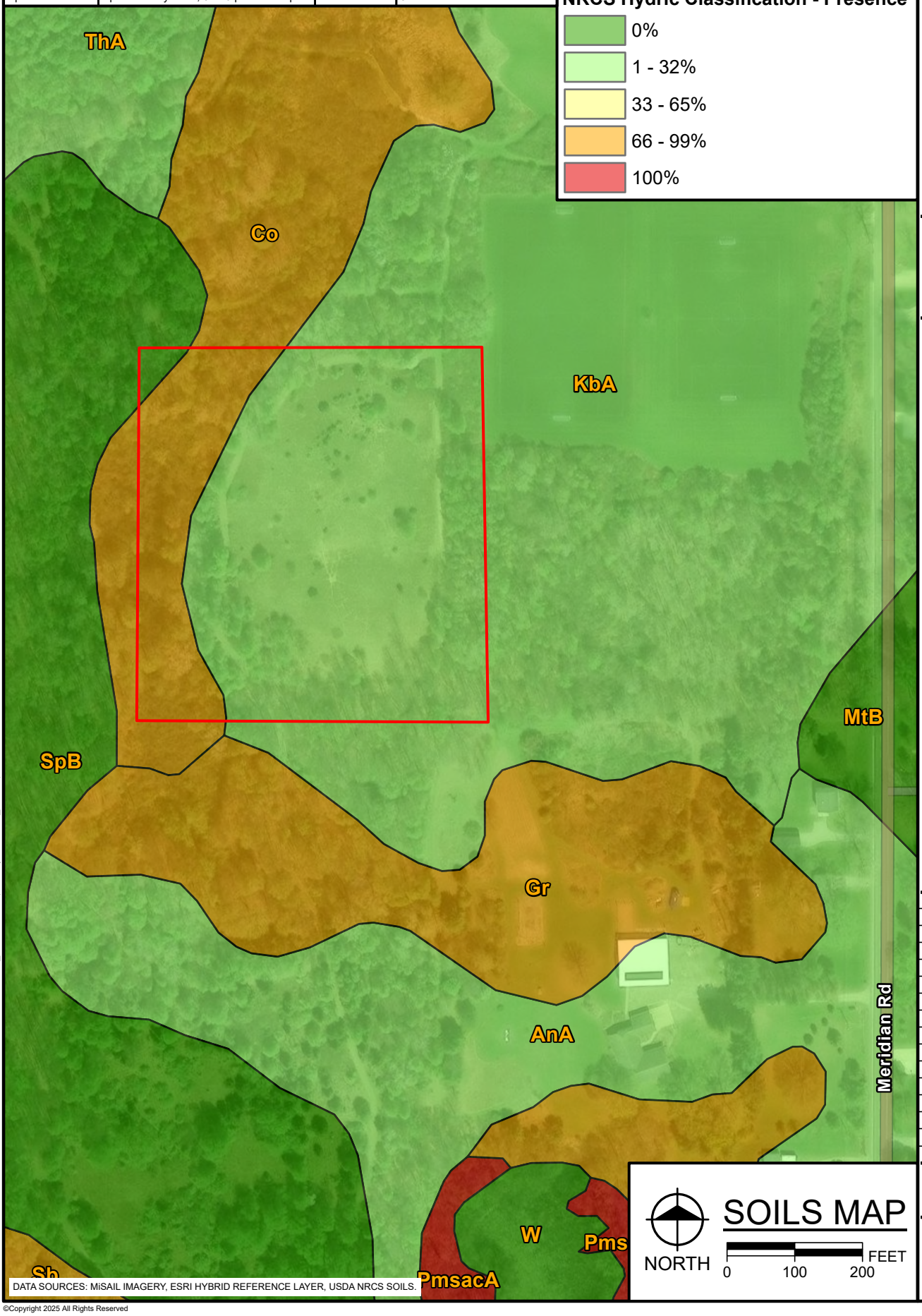
Wetland Delineation

PROJECT NO.
2501009

FIGURE NO.
1

PLOT INFO: Z:\2025\2501009\CAD\GIS\Wetland Delineation\Wetland Delineation_CricketField.aprx Layout: FIG01_Location Map Date: 9/19/2025 1:29 PM User: ctrottier

Mapunit Symbol	Mapunit Name	Hydric Rating	Hydric Classification - Presence
Co	Colwood-Brookston loams	Yes	80
KbA	Kibbie loam, 0 to 3 percent slopes	No	10
SpB	Spinks loamy sand, 0 to 6 percent slopes	No	0



LEGEND

Area of Investigation

NRCS Hydric Classification - Presence

- 0%
- 1 - 32%
- 33 - 65%
- 66 - 99%
- 100%

NORTH

SOILS MAP

0 100 200 FEET

DATA SOURCES: MiSAIL IMAGERY, ESRI HYBRID REFERENCE LAYER, USDA NRCS SOILS.

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Meridian Township Parks and Recreation

North Meridian Road Park, Meridian Township, Ingham County, Michigan

Wetland Delineation

PROJECT NO.
2501009

FIGURE NO.
2

PLOT INFO: Z:\2025\2501009\CAD\GIS\Wetland Delineation\Wetland Delineation_CricketField.aprx Layout: FIG02_Soil Map Date: 9/19/2025 1:29 PM User: ctrottier

NWI MAP

DATA SOURCES: MiSAIL IMAGERY, ESRI HYBRID REFERENCE LAYER, USFWS NWI DATA, AND FEMA NFHL DATA.

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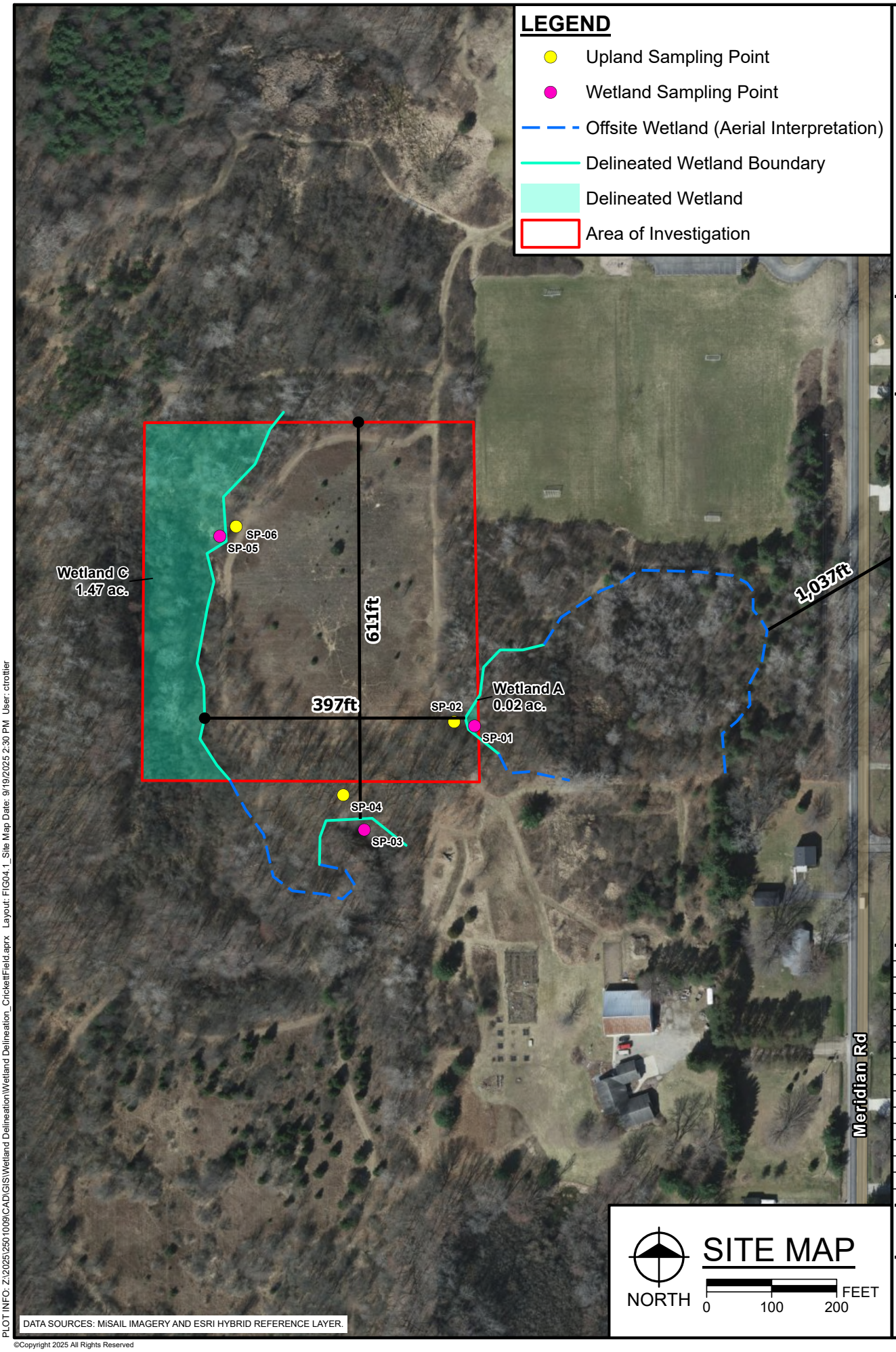
Meridian Township Parks and Recreation
North Meridian Road Park, Meridian Township, Ingham County, Michigan

Wetland Delineation

PROJECT NO.
2501009

FIGURE NO.
3

PLOT INFO: Z:\2025\2501009\CAD\GIS\Wetland Delineation\Wetland Delineation_CricketField.aprx Layout: FIG03_NWI Map Date: 9/19/2025 1:29 PM User: ctrottier



SITE MAP

DATA SOURCES: MiSAIL IMAGERY AND ESRI HYBRID REFERENCE LAYER.

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Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

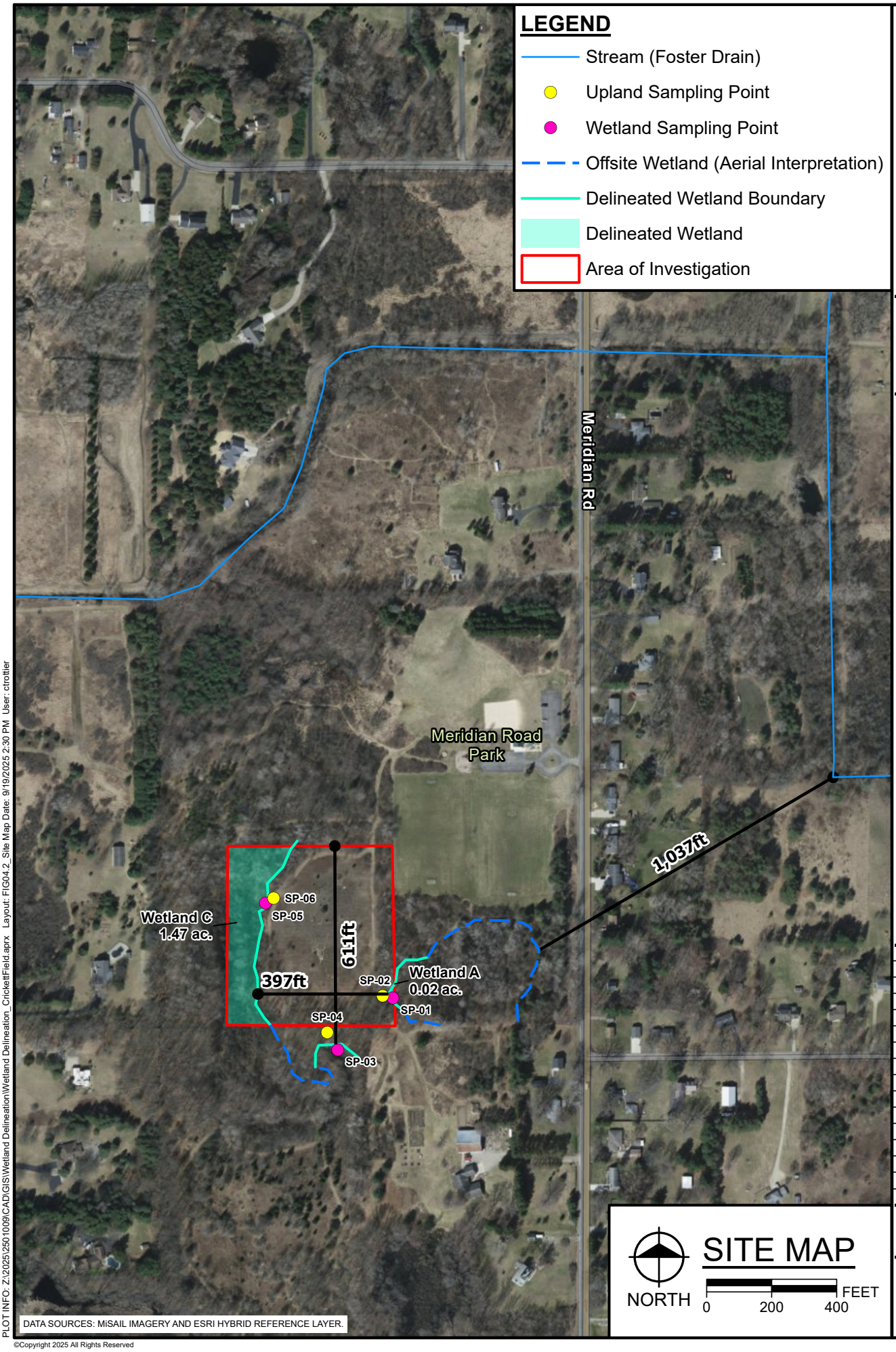
Meridian Township Parks and Recreation
North Meridian Road Park, Meridian Township, Ingham County, Michigan

Wetland Delineation

PROJECT NO.
2501009

FIGURE NO.
4.1

PLOT INFO: Z:\2025\2501009\CAD\GIS\Wetland Delineation\Wetland Delineation_CricketField.aprx Layout: FIG04.1_Site Map Date: 9/19/2025 2:30 PM User: ctrottier



NORTH

SITE MAP

0 200 400 FEET

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Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Meridian Township Parks and Recreation
North Meridian Road Park, Meridian Township, Ingham County, Michigan

Wetland Delineation

PROJECT NO.
2501009

FIGURE NO.
4.2

PLOT INFO: Z:\2025\2501009\CAD\GIS\Wetland Delineation\Wetland Delineation_CricketField.aprx Layout: FIG04.2_Site Map Date: 9/19/2025 2:30 PM User: ctrottier

Attachment 1

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET - Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Crickett Field/ Meridian Rd, Okemos, MI 48864 City/County: Meridian Township/ Ingham County Sampling Date: 08/08/2025
Applicant/Owner: Meridian Township Parks and Recreation State: MI Sampling Point: SP-01
Investigator(s): K. McMahon Section, Township, Range: S32 T4N R1W
Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): none Slope (%): 0
Subregion (LRR or MLRA): MLRA 98 Lat: 42.730373 Long: -84.365662 Datum: WSG-84
Soil Map Unit Name: Kibbie loam, 0 to 3 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation No, Soil No, or Hydrology No 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 X No ___
Hydric Soil Present? Yes X No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? Yes X No ___
If yes, optional Wetland Site ID: Wetland A

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one 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)
- ___ Marl Deposits (B15)
- ___ 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)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: SP-01

Tree Stratum (Plot size: 30-ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum* / Red maple	50	Yes	FAC
2. *Populus tremuloides* / Quaking aspen	30	Yes	FACU
3. *Betula papyrifera* / Paper birch	15	No	FACU
4.			
5.			
6.			
7.			
	95	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15-ft)			
1. *Frangula alnus* / Glossy false buckthorn	40	Yes	FAC
2. *Fraxinus pennsylvanica* / Green ash	15	Yes	FACW
3.			
4.			
5.			
6.			
7.			
	55	= Total Cover	

Herb Stratum (Plot size: 5-ft)			
1. *Solidago gigantea* / Smooth goldenrod	5	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	5	= Total Cover	

Woody Vine Stratum (Plot size: 30-ft)			
1.			
2.			
3.			
4.			
	0	= 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: 80.0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	20	x 2 =	40
FAC species	90	x 3 =	270
FACU species	45	x 4 =	180
UPL species	0	x 5 =	0
Column Totals:	155 (A)		490 (B)

Prevalence Index = B/A = 3.16

Hydrophytic Vegetation Indicators:

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

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

Definitions of Vegetation Strata

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

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

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

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

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: SP-01

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10YR 4/1	95	10YR 4/6	5	C	M	VF Sndy Lm	
14-18	10YR 5/3	95	10YR 4/6	5	C	M	VF Sndy Lm	

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

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: ___

Depth (inches): ___

Hydric Soil Present? Yes X No ___

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET - Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Crickett Field/ Meridian Rd, Okemos, MI 48864 City/County: Meridian Township/ Ingham County Sampling Date: 08/08/2025
Applicant/Owner: Meridian Township Parks and Recreation State: MI Sampling Point: SP-02
Investigator(s): K. McMahon Section, Township, Range: S32 T4N R1W
Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): none Slope (%): 0
Subregion (LRR or MLRA): MLRA 98 Lat: 42.73039 Long: -84.365779 Datum: WSG-84
Soil Map Unit Name: Kibbie loam, 0 to 3 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ___	No X	**Is the Sampled Area**		
Hydric Soil Present?	Yes ___	No X	**within a Wetland?**	Yes ___	No X
Wetland Hydrology Present?	Yes ___	No X	If yes, optional Wetland Site ID:		

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one 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)
- ___ Marl Deposits (B15)
- ___ 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)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches):	
Water Table Present?	Yes ___	No X	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches):	

Wetland Hydrology Present? Yes ___ No X

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

Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: SP-02

Tree Stratum (Plot size: 30-ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus velutina* / Black oak	30	Yes	UPL
2. *Acer rubrum* / Red maple	20	Yes	FAC
3. *Prunus serotina* / Black cherry	20	Yes	FACU
4.			
5.			
6.			
7.			
	70	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15-ft)			
1. *Frangula alnus* / Glossy false buckthorn	20	Yes	FAC
2. *Cornus racemosa* / Gray dogwood	15	Yes	FAC
3. *Lonicera tatarica* / Tatarian honeysuckle	10	Yes	FACU
4.			
5.			
6.			
7.			
	45	= Total Cover	

Herb Stratum (Plot size: 5-ft)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	0	= Total Cover	

Woody Vine Stratum (Plot size: 30-ft)			
1.			
2.			
3.			
4.			
	0	= 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: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	55	x 3 =	165
FACU species	30	x 4 =	120
UPL species	30	x 5 =	150
Column Totals:	115 (A)		435 (B)

Prevalence Index = B/A = 3.78

Hydrophytic Vegetation Indicators:

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

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

Definitions of Vegetation Strata

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

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

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

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

Hydrophytic Vegetation Present? Yes ___ No X

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

SOIL

Sampling Point: SP-02

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/3	100					VF Sndy Lm	
16-18	10YR 5/3	95	10YR 4/6	5	C	M	VF Sndy Lm	

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

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET - Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Crickett Field/ Meridian Rd, Okemos, MI 48864 City/County: Meridian Township/ Ingham County Sampling Date: 08/08/2025
Applicant/Owner: Meridian Township Parks and Recreation State: MI Sampling Point: SP-03
Investigator(s): K. McMahon Section, Township, Range: S32 T4N R1W
Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): concave Slope (%): 0
Subregion (LRR or MLRA): MLRA 98 Lat: 42.729934 Long: -84.366294 Datum: WSG-84
Soil Map Unit Name: Kibbie loam, 0 to 3 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation No, Soil No, or Hydrology No 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 X No ___
Hydric Soil Present? Yes X No ___
Wetland Hydrology Present? Yes X No ___

Is the Sampled Area within a Wetland? Yes X No ___
If yes, optional Wetland Site ID: Wetland B

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one 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)
- X Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ 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)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: SP-03

Tree Stratum (Plot size: 30-ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum* / Red maple	100	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	100	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15-ft)			
1. *Frangula alnus* / Glossy false buckthorn	15	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	15	= Total Cover	

Herb Stratum (Plot size: 5-ft)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	0	= Total Cover	

Woody Vine Stratum (Plot size: 30-ft)			
1.			
2.			
3.			
4.			
	0	= 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: 100.0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	115	x 3 =	345
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	115 (A)		345 (B)

Prevalence Index = B/A = 3.0

Hydrophytic Vegetation Indicators:

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

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

Definitions of Vegetation Strata

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

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

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

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

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: SP-03

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 4/1	95	10YR 4/6	5	C	M	VF Sndy Lm	

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

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: ___

Depth (inches): ___

Hydric Soil Present? Yes X No ___

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET - Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Crickett Field/ Meridian Rd, Okemos, MI 48864 City/County: Meridian Township/ Ingham County Sampling Date: 08/08/2025
Applicant/Owner: Meridian Township Parks and Recreation State: MI Sampling Point: SP-04
Investigator(s): K. McMahon Section, Township, Range: S32 T4N R1W
Landform (hillslope, terrace, etc): hillslope Local relief (concave, convex, none): none Slope (%): 3
Subregion (LRR or MLRA): MLRA 98 Lat: 42.730081 Long: -84.366414 Datum: WSG-84
Soil Map Unit Name: Kibbie loam, 0 to 3 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes ____ No X
Hydric Soil Present? Yes ____ No X
Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? Yes ____ No X
If yes, optional Wetland Site ID: ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one 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)
- ___ Marl Deposits (B15)
- ___ 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)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ____ No X Depth (inches): ____
Water Table Present? Yes ____ No X Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): ____

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: SP-04

Tree Stratum (Plot size: 30-ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra* / Northern red oak	60	Yes	FACU
2. *Prunus serotina* / Black cherry	25	Yes	FACU
3.			
4.			
5.			
6.			
7.			
	85	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15-ft)			
1. *Frangula alnus* / Glossy false buckthorn	10	Yes	FAC
2. *Lonicera tatarica* / Tatarian honeysuckle	10	Yes	FACU
3. *Hamamelis virginiana* / American witch-hazel	5	No	FACU
4. *Fraxinus pennsylvanica* / Green ash	5	No	FACW
5.			
6.			
7.			
	30	= Total Cover	

Herb Stratum (Plot size: 5-ft)			
1. *Rubus allegheniensis* / Allegheny blackberry	10	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	10	= Total Cover	

Woody Vine Stratum (Plot size: 30-ft)			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	10	x 3 =	30
FACU species	110	x 4 =	440
UPL species	0	x 5 =	0
Column Totals:	125 (A)		480 (B)

Prevalence Index = B/A = 3.84

Hydrophytic Vegetation Indicators:

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

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

Definitions of Vegetation Strata

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

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

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

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

Hydrophytic Vegetation Present? Yes ___ No X

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

SOIL

Sampling Point: SP-04

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/3	100					VF Sndy Lm	

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

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET - Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Crickett Field/ Meridian Rd, Okemos, MI 48864 City/County: Meridian Township/ Ingham County Sampling Date: 08/08/2025
Applicant/Owner: Meridian Township Parks and Recreation State: MI Sampling Point: SP-05
Investigator(s): K. McMahon Section, Township, Range: S32 T4N R1W
Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): none Slope (%): 2
Subregion (LRR or MLRA): MLRA 98 Lat: 42.731174 Long: -84.367121 Datum: WSG-84
Soil Map Unit Name: Kibbie loam, 0 to 3 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation No, Soil No, or Hydrology No 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	X	No		
Hydric Soil Present?	Yes	X	No	**Is the Sampled Area within a Wetland?**	Yes X No ___
Wetland Hydrology Present?	Yes	X	No	If yes, optional Wetland Site ID:	Wetland C

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one 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)
- ___ Marl Deposits (B15)
- ___ 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)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: SP-05

Tree Stratum (Plot size: 30-ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15-ft)			
1. *Cornus amomum* / Silky dogwood	20	Yes	FACW
2. *Rubus allegheniensis* / Allegheny blackberry	15	Yes	FACU
3. *Spiraea alba* / White meadowsweet	10	Yes	FACW
4. *Cornus racemosa* / Gray dogwood	5	No	FAC
5.			
6.			
7.			
	50	= Total Cover	
Herb Stratum (Plot size: 5-ft)			
1. *Euthamia graminifolia* / Flat-top goldentop	15	Yes	FAC
2. *Phalaris arundinacea* / Reed canary grass	10	Yes	FACW
3. *Solidago altissima* / Canada goldenrod	10	Yes	FACU
4. *Apios americana* / Groundnut	5	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	40	= Total Cover	
Woody Vine Stratum (Plot size: 30-ft)			
1.			
2.			
3.			
4.			
	0	= 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: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	45	x 2 =	90
FAC species	20	x 3 =	60
FACU species	25	x 4 =	100
UPL species	0	x 5 =	0
Column Totals:	90 (A)		250 (B)

Prevalence Index = B/A = 2.78

Hydrophytic Vegetation Indicators:

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

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

Definitions of Vegetation Strata

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

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

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

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

Hydrophytic Vegetation Present? Yes X No ___

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

SOIL

Sampling Point: SP-05

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/2	98	10YR 4/4	2	C	M	Sand	
12-18	10YR 5/1	95	10YR 4/4	5	C	M	Sand	

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

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: ___

Depth (inches): ___

Hydric Soil Present? Yes X No ___

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET - Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Crickett Field/ Meridian Rd, Okemos, MI 48864 City/County: Meridian Township/ Ingham County Sampling Date: 08/08/2025
Applicant/Owner: Meridian Township Parks and Recreation State: MI Sampling Point: SP-06
Investigator(s): K. McMahon Section, Township, Range: S32 T4N R1W
Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): none Slope (%): 1
Subregion (LRR or MLRA): MLRA 98 Lat: 42.731215 Long: -84.367027 Datum: WSG-84
Soil Map Unit Name: Kibbie loam, 0 to 3 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ___ (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ___
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ___	No X	**Is the Sampled Area**		
Hydric Soil Present?	Yes ___	No X	**within a Wetland?**	Yes ___	No X
Wetland Hydrology Present?	Yes ___	No X	If yes, optional Wetland Site ID:		

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one 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)
- ___ Marl Deposits (B15)
- ___ 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)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___ No X	Depth (inches):	
Water Table Present?	Yes ___ No X	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes ___ No X	Depth (inches):	

Wetland Hydrology Present? Yes ___ No X

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

Remarks:

VEGETATION - Use scientific names of plants. Sampling Point: SP-06

Tree Stratum (Plot size: 30-ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Prunus serotina* / Black cherry	20	Yes	FACU
2. *Populus grandidentata* / Big-tooth aspen	10	Yes	FACU
3.			
4.			
5.			
6.			
7.			
	30	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15-ft)			
1. *Cornus racemosa* / Gray dogwood	30	Yes	FAC
2. *Populus grandidentata* / Big-tooth aspen	15	Yes	FACU
3. *Rubus allegheniensis* / Allegheny blackberry	10	No	FACU
4.			
5.			
6.			
7.			
	55	= Total Cover	

Herb Stratum (Plot size: 5-ft)			
1. *Phleum pratense* / Common timothy, Cultivated timothy	15	Yes	FACU
2. *Achillea millefolium* / Yarrow	10	Yes	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25	= Total Cover	

Woody Vine Stratum (Plot size: 30-ft)			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	30	x 3 =	90
FACU species	80	x 4 =	320
UPL species	0	x 5 =	0
Column Totals:	110 (A)		410 (B)

Prevalence Index = B/A = 3.73

Hydrophytic Vegetation Indicators:

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

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

Definitions of Vegetation Strata

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

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

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

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

Hydrophytic Vegetation Present? Yes ___ No X

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

SOIL

Sampling Point: SP-06

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 5/3	100					Sand	
12-18	10YR 6/6	100					Sand	

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

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Attachment 2

fishbeck

Photo Log

Wetland Delineation: Meridian Township Parks and Recreation - Cricket Field
Project No. 2501009
Date of Site Visit: August 8, 2025

SP-01

SP-02

SP-03

SP-04

SP-05

SP-06