

WETLANDDETERMINATION REPORT

I-55 (FAI 55) Will County, Illinois

IDOT Sequence Number: 16050B



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Project Summary

A wetland survey was conducted for proposed work on I-55 (FAI 55) in Will County, Illinois. All potential wetlands within the specified project area were examined. Twenty one sites met the three criteria of a wetland established in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* [U.S. Army Corps of Engineers (USACE) 2010] and were, therefore, determined to be wetlands. Summary information regarding the wetland determination sites is presented in the wetland project report. Wetland determination forms are found in Appendix A and wetland plant species lists are included in Appendix B. Wetland boundaries were recorded using a Trimble Global Navigation Satellite System (GNSS). The spatial data have been digitally uploaded to the Illinois Site Assessment Tracking System (http://frostycap.isgs.uiuc.edu/idot extranet). Locations of determination sites were overlaid on a digital orthophoto quadrangle (DOQ) using ArcGIS; the resulting figure is included in Appendix C. Additional maps and figures are also included in Appendix C.

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Cover Photo: Facing northwest overlooking site 23.

I-55 (FAI 55) Will County, Illinois

Introduction

A wetland survey was conducted on 21-24 October 2014 for the proposed work on I-55 (FAI 55) in Will County, Illinois. Construction work is to include in-stream work, as well as acquisition of additional right-of-way easement. This project report replaces the original project (Wilm et al. 2011a) and Addendum A (Wilm et al. 2011b), and includes additional surveys for Addendum B. In this report, "area of site occurring within the project corridor" refers to the outer boundary of the original and all addenda corridors combined.

Methods

All potential wetlands within the specified study area were examined. Characteristics of vegetation, soils, hydrology, and topography were evaluated during field investigation and onsite wetland determination. Locations of observation points for wetland determinations were selected based on plant community borders and topographic changes. The following sources were examined while surveying the project corridor to determine wetland locations and boundaries: aerial photographs; US Geological Survey topographic maps (Plainfield and Normantown 7.5 minute quadrangles); National Wetlands Inventory (NWI) maps (Plainfield and Normantown 7.5 minute quadrangles) (U.S. Fish and Wildlife Service); Illinois Wetlands Inventory (U.S. Fish and Wildlife Service, Illinois Department of Natural Resources, Illinois Natural History Survey 1996); the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987); the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) (USACE 2010); the USDA-NRCS Official Series Descriptions; and the USDA-NRCS Web Soil Survey. Positional inaccuracies are known to occur with downloaded sources of digital data listed above. As presented on maps and figures in this report, data can be shifted from their actual position when compared to modern aerial photography.

Wetland determinations were conducted using definitions and guidelines established in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)* (USACE 2010). Data from these determinations were recorded on U.S. Army Corps of Engineers' Wetland Determination Data Forms – Midwest Region (Appendix A); a data form was completed for each wetland sampling point. All potential wetlands, including all areas mapped as wetlands by the NWI, were described using at least one sampling point. Results of these determinations are summarized in the following text. Adjacent upland areas were also investigated; forms were also completed for these areas. Comprehensive plant species lists were compiled for each wetland site and are presented in Appendix B.

Wetland and water boundaries were recorded using a Trimble Global Navigation Satellite System (model GeoExplorer 6000 Series GeoXT), with a presumed accuracy of +/- 0.5 m under optimal field conditions. Occasionally, conditions prohibit field-delineation of boundaries using GNSS equipment, and these boundaries are digitized in the office using aerial photography. Typically this is done when one of three issues prevents field personnel from conducting a normal field delineation:

- Site cannot be accessed due to fence, lack of permission, hostile landowner, or other reason.
- Current conditions make delineation impossible (for example, delineating a stream or other water during a major flood when boundaries cannot be seen in the field).
- Current conditions make field delineation dangerous to our personnel. This often
 occurs with very steep-sided banks on creeks that have a great deal of vegetation
 obscuring the drop-off.

When a site is delineated using aerial photography, the site boundary must be readily visible from the aerial photo, and not obscured by overhanging vegetation or other features on the photo.

Spatial data were digitally uploaded to the Illinois Site Assessment Tracking System (http://frostycap.isgs.uiuc.edu/idot_extranet). Locations of determination sites were overlaid on a digital orthophoto quadrangle (DOQ) and approximate area was determined for each wetland site using ArcGIS 10.2.2 software (ESRI 2014). Resulting areas are calculated in acres, reported to two decimal places. Area of streams and ditches is given for the open channel and omits any portion enclosed in a pipe or culvert. Length of streams and ditches is given for the entire length within the project corridor; this includes pipes and culverts where visual observation can locate both ends. Site location, with respect to the nearest road, was measured from the edge of the pavement and is reported to the nearest foot.

Each native plant species was assigned a "coefficient of conservatism" (C) (Swink and Wilhelm 1994), a subjective rating of species fidelity to undegraded natural communities, ranging from zero to ten. Conservative species - those more likely to be found in "pristine" natural areas - were assigned high numbers, whereas non-conservative species - those that occur in anthropogenically disturbed areas - were given lower numbers. Non-native species and those not identifiable to species level were not assigned a rating. The Floristic Quality Index (FQI) is computed as FQI = (mean C) X (VN), where mean C is the mean coefficient of conservatism for all native plant species at a site and N is the total number of native plant species at the site. In very general terms, higher FQI values for plant communities indicate more similarity to "pristine" natural areas, as compared to those communities with lower FQI values. Botanical nomenclature follows *Plants of the Chicago Region (ibid.*), while wetland indicator status for each species follows *National Wetland Plant List, version 3.2* (USACE 2014).

Wetland Determination Site Summaries

Site Number: 1

Community type: Forbland

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated

bottom, palustrine wetland)

Site location: **Sampling point 1A approximately 206 feet east of Frontage Road**Hydrophytic Vegetation? **No**Hydric Soils? **No**Wetland Hydrology? **No**

Is this site a wetland? No

Site Number: 2

Community type: Wet meadow

National Wetlands Inventory code: **U** (upland)

Site location: Approximately 153 feet east of Frontage Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: <0.01 ac

Total site area: **0.02 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including

isolated wetlands (ISOLATE)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 1.4 Floristic Quality Index (FQI): 3.9

Site Number: 3

Community type: Wet shrubland

National Wetlands Inventory code: U (upland)

Site location: Approximately 70 feet east of Frontage Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 0.08 ac

Total site area: **0.08 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including

isolated wetlands (ISOLATE)
HGM type: Depressional

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Mean Coefficient of Conservatism (mean C): 2.0 Floristic Quality Index (FQI): 3.5

Site Number: 4

Community type: Marsh

National Wetlands Inventory code: **U (upland)**Site location: **Approximately 266 feet west of I-55**

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.11 ac**

Total site area: 0.38 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential Platanthera

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands adjacent to non-RPWs that flow directly or

indirectly into Traditional Navigable Waters (NRPWW)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 2.6 Floristic Quality Index (FQI): 11.8

Site Number: 5

Community type: Wet meadow

National Wetlands Inventory code: **U** (upland)

Site location: Two pieces approximately 126 and 130 feet west of I-55

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.05 ac**

Total site area: 0.05 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including

isolated wetlands (ISOLATE)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 1.0

Floristic Quality Index (FQI): 2.0

Additional remarks: A non-wetland grass drainage way connects the two pieces of this site.

Site Number: 6

Community type: Marsh

National Wetlands Inventory code: **U (upland)**

Site location: Two pieces approximately 30 and 93 feet west of I-55

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 0.99 ac

Total site area: Undetermined

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands adjacent to but not directly abutting RPWs

that flow directly or indirectly into Traditional Navigable Waters (RPWWN)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 3.3 Floristic Quality Index (FQI): 16.9

Site Number: 7

Community type: Developed land

National Wetlands Inventory code: PEMC (seasonally flooded, emergent, palustrine wetland)

Site location: **Sampling point 9A approximately 179 feet south of E. Lockport Road** Hydrophytic Vegetation? **No** Hydric Soils? **No** Wetland Hydrology? **No**

Is this site a wetland? No

Site Number: 8

Community type: Wet shrubland

National Wetlands Inventory code: PEMC (seasonally flooded, emergent, palustrine wetland) Site location: Multiple pieces beginning 16 feet north and 14 feet south of E. Lockport Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.99 ac**

Total site area: Undetermined

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 2.4 Floristic Quality Index (FQI): 10.9

Site Number: 9

Community type: Non-native grassland

National Wetlands Inventory code: **PEMAf (farmed, temporarily flooded, emergent, palustrine**

wetland)

Site location: **Sampling point 9A approximately 119 feet east of Frontage Road**Hydrophytic Vegetation? **Yes**Hydric Soils? **No**Wetland Hydrology? **No**

Is this site a wetland? No

Site Number: 10

Community type: Marsh

National Wetlands Inventory code: L1UBHx (excavated, permanently flooded, unconsolidated

bottom, limnetic, lacustrine wetland)

Site location: Approximately 22 feet west of Frontage Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 2.18 ac

Total site area: Undetermined

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**

Waters type (USACE and USEPA 2007): Wetlands adjacent to non-RPWs that flow directly or indirectly into Traditional Navigable Waters (NRPWW)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): **3.0** Floristic Quality Index (FQI): **13.1**

Site Number: 11

Community type: Wet meadow

National Wetlands Inventory code: **U** (upland)

Site location: Approximately 18 feet west of Frontage Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.13 ac**

Total site area: **0.16 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential Platanthera

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands adjacent to non-RPWs that flow directly or

indirectly into Traditional Navigable Waters (NRPWW)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 2.8 Floristic Quality Index (FQI): 6.9

Site Number: 12

Community type: Wet floodplain forest

National Wetlands Inventory code: PFO1C (seasonally flooded, broad-leaved deciduous,

forested, palustrine wetland)

Site location: Approximately 67 feet north of 143rd Street

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? **Yes**

Area of site occurring within the project corridor: 0.39 ac

Total site area: 2.48 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)

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HGM type: Riverine

Mean Coefficient of Conservatism (mean C): **3.0** Floristic Quality Index (FQI): **15.6**

Site Number: 13

Community type: Mesic floodplain forest

National Wetlands Inventory code: PEMC (seasonally flooded, emergent, palustrine wetland)

Site location: Sampling point 13A approximately 45 feet south of 143rd Street

Hydrophytic Vegetation? No

Hydric Soils? **Yes**

Wetland Hydrology? No

Is this site a wetland? No

Site Number: 14

Community type: Wet floodplain forest

National Wetlands Inventory code: L1UBHx (ecavated, permanently flooded, unconsolidated

bottom, limnetic, lacustrine wetland)

Site location: Approximately 134 feet south of 135th Street

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.02 ac**

Total site area: **0.10 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or

indirectly into Traditional Navigable Waters (RPWWD)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 2.6 Floristic Quality Index (FQI): 10.8

Site Number: 15

Community type: Deepwater aquatic habitat

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated

bottom, palustrine wetland)

Site location: Sampling point 15A approximately 203 feet southeast of Essington Road

Hydrophytic Vegetation? No Hydric Soils? No Wetland Hydrology? No

Is this site a wetland? No

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including

isolated wetlands (ISOLATE)

Site Number: 16

Community type: **Deepwater aquatic habitat**

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated

bottom, palustrine wetland)

Site location: Sampling point 16A approximately 109 feet northwest of Essington Road

Hydrophytic Vegetation? **No** Hydric Soils? **No** Wetland Hydrology? **No**

Is this site a wetland? No

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including

isolated wetlands (ISOLATE)

Site Number: 17

Community type: Wetland pond

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated bottom, palustrine wetland)

Site location: Approximately 36 feet northwest of Essington Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 1.39 ac

Total site area: 1.39 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands adjacent to but not directly abutting RPWs

that flow directly or indirectly into Traditional Navigable Waters (RPWWN)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 2.6 Floristic Quality Index (FQI): 10.7

Site Number: 18

Community type: Wet shrubland

National Wetlands Inventory code: PEMC (seasonally flooded, emergent, palustrine wetland)

Site location: Approximately 143 feet northwest of Essington Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.10 ac**

Total site area: **0.10 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? Yes

Rationale: This site has a mean C-value of 3.5 or greater (Swink and Wilhelm 1994).

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWN)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): **3.6** Floristic Quality Index (FQI): **11.4**

Site Number: 19

Community type: Wet meadow

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated bottom, palustrine wetland), PEMC (seasonally flooded, emergent, palustrine wetland), and U (upland)

Site location: Two pieces approximately 152 and 253 feet northwest of Essington Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.76 ac**

Total site area: **0.76 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera leucophaea* (Eastern prairie fringed orchid) habitat (USFWS 2014)? **No**

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including isolated wetlands (ISOLATE)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 3.2 Floristic Quality Index (FQI): 14.3

Site Number: 20

Community type: **Wet floodplain forest**National Wetlands Inventory code: **U (upland)**

Site location: Approximately 183 feet south of 135th Street

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.61 ac**

Total site area: **0.61 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential Platanthera

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands adjacent to but not directly abutting RPWs

that flow directly or indirectly into Traditional Navigable Waters (RPWWN)

HGM type: **Depressional**

Mean Coefficient of Conservatism (mean C): 2.8 Floristic Quality Index (FQI): 6.3

Site Number: 21

Community type: Wet shrubland

National Wetlands Inventory code: **U** (upland)

Site location: Approximately 180 feet west of Essington Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **1.46 ac**

Total site area: **1.55 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or

indirectly into Traditional Navigable Waters (RPWWD)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 2.9 Floristic Quality Index (FQI): 9.6

Site Number: 22

Community type: Wet meadow

National Wetlands Inventory code: U (upland)

Site location: Approximately 170 feet west of Essington Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: **0.13 ac**

Total site area: 0.51 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or

indirectly into Traditional Navigable Waters (RPWWD)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 2.6 Floristic Quality Index (FQI): 5.8

Site Number: 23

Community type: Wet shrubland/Wetland pond

National Wetlands Inventory code: PFO1Cx (excavated, seasonally flooded, broad-leaved deciduous, forested, palustrine wetland) and PUBGx (excavated, intermittently exposed,

unconsolidated bottom, palustrine wetland)

Site location: Approximately 137 feet east of I-55

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 5.04 ac

Total site area: 5.04 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Isolated interstate or intrastate waters including

isolated wetlands (ISOLATE)
HGM type: Depressional

Mean Coefficient of Conservatism (mean C): 3.3

Floristic Quality Index (FQI): **16.4**

Site Number: 24

Community type: Wet floodplain forest

National Wetlands Inventory code: U (upland)
Site location: Approximately 7 feet north of IL 126

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 0.76 ac

Total site area: Undetermined

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or

indirectly into Traditional Navigable Waters (RPWWD)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 2.1 Floristic Quality Index (FQI): 10.0

Site Number: 25

Community type: Mesic floodplain forest

National Wetlands Inventory code: PFO1C (seasonally flooded, broad-leaved deciduous,

forested, palustrine wetland)

Site location: Sampling point 25A approximately 100 feet southeast of IL 126

Hydrophytic Vegetation? Yes Hydric Soils? No Wetland Hydrology? No

Is this site a wetland? No

Site Number: 26

Community type: Wet meadow

National Wetlands Inventory code: **PEMC (seasonally flooded, emergent, palustrine wetland)**

and PFO1C (seasonally flooded, broad-leaved deciduous, forested, palustrine wetland)

Site location: Approximately 18 feet west of I-55

Hydrophytic Vegetation? Yes

Hydric Soils? **Yes** Wetland Hydrology? **Yes**

Is this site a wetland? Yes

Area of site occurring within the project corridor: **26.10 ac**

Total site area: **28.70 ac**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 2.2 Floristic Quality Index (FQI): 8.5

Site Number: 27

Community type: Wet meadow/wet shrubland

National Wetlands Inventory code: PEMCd (partially drained/ditched, seasonally flooded, emergent, palustrine wetland), U (upland), and PEMC (seasonally flooded, emergent, palustrine wetland)

Site location: Multiple pieces beginning 4 feet east and west of Budler Road

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 53.78 ac

Total site area: Undetermined

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential Platanthera

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or indirectly into Traditional Navigable Waters (RPWWD)

HGM type: **Riverine**

Mean Coefficient of Conservatism (mean C): 3.1 Floristic Quality Index (FQI): 19.7

Additional remarks: This site is a portion of a larger site (site 1 - 170.80 ac) mapped by Wiesbrook et al. in 2011.

Site Number: 28

Community type: Wetland pond

National Wetlands Inventory code: U (upland)

Site location: Approximately 48 feet northwest of Plymouth Circle

Hydrophytic Vegetation? Yes Hydric Soils? Yes Wetland Hydrology? Yes

Is this site a wetland? Yes

Area of site occurring within the project corridor: 2.74 ac

Total site area: 2.74 ac

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Does this site meet U.S. Fish and Wildlife Service (FWS) criteria for potential *Platanthera*

leucophaea (Eastern prairie fringed orchid) habitat (USFWS 2014)? No

Waters type (USACE and USEPA 2007): Wetlands directly abutting RPWs that flow directly or

indirectly into Traditional Navigable Waters (RPWWD)

HGM type: Riverine

Mean Coefficient of Conservatism (mean C): 2.6 Floristic Quality Index (FQI): 6.8

Wetland Determination Site Summary Table

Site No.	NWI code	Community Type	Area (ac.) ¹	>50%²	FQI	Mean C	HQAR ³	Waters Type
2	U	Wet meadow	<0.01	No	3.9	1.4	No	ISOLATE
3	U	Wet shrubland	0.08	Yes	3.5	2.0	No	ISOLATE
4	U	Marsh	0.11	No	11.8	2.6	No	NRPWW
5	U	Wet meadow	0.05	Yes	2.0	1.0	No	ISOLATE
6	U	Marsh	0.99	No	16.9	3.3	No	RPWWN
8	PEMC	Wet shrubland	0.99	No	10.9	2.4	No	RPWWD
10	L1UBHx	Marsh	2.18	No	13.1	3.0	No	NRPWW
11	U	Wet meadow	0.13	Yes	6.9	2.8	No	NRPWW
12	PFO1C	Wet floodplain forest	0.39	No	15.6	3.0	No	RPWWD
14	L1UBHx	Wet floodplain forest	0.02	No	10.8	2.6	No	RPWWD
17	PUBGx	Wetland pond	1.39	Yes	10.7	2.6	No	RPWWN
18	PEMC	Wet shrubland	0.10	Yes	11.4	3.6	Yes	RPWWN
19	PUBGx, PEMC, and U	Wet meadow	0.76	Yes	14.3	3.2	No	ISOLATE
20	U	Wet floodplain forest	0.61	Yes	6.3	2.8	No	RPWWN
21	U	Wet shrubland	1.46	Yes	9.6	2.9	No	RPWWD
22	U	Wet meadow	0.13	No	5.8	2.6	No	RPWWD
23	PFO1Cx and PUBGx	Wet shrubland/wetland pond	5.04	Yes	16.4	3.3	No	ISOLATE
24	U	Wet floodplain forest	0.76	No	10.0	2.1	No	RPWWD
26	PEMC and PFO1C	Wet meadow	26.10	Yes	8.5	2.2	No	RPWWD
27	PEMCd, U, and PEMC	Wet meadow/wet shrubland	53.78	No	19.7	3.1	No	RPWWD
28	U	Wetland pond	2.74	Yes	6.8	2.6	No	RPWWD

¹ Area within the ESR project limits. ² In our best professional judgment is more than 50% of the total site area within the ESR project limits? ³ Is this site a High Quality Aquatic Resource?

Waters of the United States

Site Number: W1Site Name: **Pond**

Site Location: **Approximately 73 feet east of Frontage Road**Latitude: **41.60558**Longitude: - **88.16224**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: **3.95 ac**

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W2 Site Name: Pond

Site Location: Approximately 60 feet south of W. Lockport Road

Latitude: **41.60865** Longitude: - **88.15755**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: 1.21 ac

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W3
Site Name: Pond

Site Location: **Approximately 61 feet north of W. Lockport Road**Latitude: **41.60987**Longitude: - **88.16133**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: 2.99 ac

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W4Site Name: **Pond**

Site Location: Approximately 59 feet north of W. Lockport Road

Latitude: **41.60948** Longitude: - **88.15732**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: **0.63 ac**

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W5
Site Name: Pond

Site Location: **Approximately 58 feet east of Frontage Road**Latitude: **41.61414**Longitude: - **88.16253**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: 1.28 ac

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W6
Site Name: Pond

Site Location: **Approximately 111 feet east of Frontage Road**Latitude: **41.61953**Longitude: - **88.16251**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: **0.19 ac**

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W7

Site Name: Lily Cache Creek

Site Location: Flows north to south through the project corridor Latitude: 41.62938 Longitude: - 88.16497

Community type: Stream

National Wetlands Inventory code: PFO1C (seasonally flooded, broad-leaved deciduous, forested, palustrine wetland), PEMC (seasonally flooded, emergent, palustrine wetland), and R2UBH (permanently flooded, unconsolidated bottom, lower perennial, riverine wetland)

Area of site occurring within the project corridor: **3.30 ac**

Linear feet: 5124 ft

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: 30.1 mi² (USGS 2014)

Riffles observed? **Yes** Pools observed? **Yes**

Mussel shell material observed? No

Is the stream or body of water permanent? Yes

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**Stream Integrity Rating: **Not Rated**Stream Diversity Rating: **Not Rated**

Site Number: W8

Site Name: Tributary to Lily Cache Creek

Site Location: Flows east to west through the project corridor Latitude: 41.63515 Longitude: - 88.15826

Community type: **Stream**

National Wetlands Inventory code: **PEMC (seasonally flooded, emergent, palustrine wetland)** and **R2UBHx (excavated, permanently flooded, unconsolidated bottom, lower perennial,**

riverine wetland)

Area of site occurring within the project corridor: **0.94 ac**

Linear feet: 5057 ft

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: 5.7 mi² (USGS 2014)

Riffles observed? **Yes** Pools observed? **Yes**

Mussel shell material observed? No

Is the stream or body of water permanent? **Yes**

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**Stream Integrity Rating: **Not Rated**Stream Diversity Rating: **Not Rated**

Site Number: W9
Site Name: Pond

Site Location: Approximately 62 feet southeast of IL 126
Latitude: 41.63174
Longitude: - 88.16885

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: 1.60 ac

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W10 Site Name: Pond

Site Location: Approximately 97 feet northwest of IL 126 Latitude: **41.63227** Longitude: - 88.16982

Community type: **Deepwater Aquatic Habitat** National Wetlands Inventory code: U (upland)

Area of site occurring within the project corridor: **0.89 ac**

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W11 Site Name: **Pond**

Site Location: Approximately 42 feet northwest of Essington Road

Latitude: **41.63604** Longitude: - 88.16759

Community type: **Deepwater Aquatic Habitat**

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated

bottom, palustrine wetland)

Area of site occurring within the project corridor: **3.55 ac**

Waters type (USACE 2007): ISOLATE (Isolated interstate or interstate waters including isolated wetlands)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No Additional Remarks: This Water of the US surrounds several upland island

Site Number: W12 Site Name: Pond

Site Location: Approximately 33 feet east of Essington Road Latitude: **41.63507** Longitude: - 88.16608

Community type: **Deepwater Aquatic Habitat**

National Wetlands Inventory code: PUBGx (excavated, intermittently exposed, unconsolidated

bottom, palustrine wetland)

Area of site occurring within the project corridor: 8.00 ac

Waters type (USACE 2007): ISOLATE (Isolated interstate or interstate waters including isolated wetlands)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Additional Remarks: This Water of the US surrounds several upland islands.

Site Number: W13
Site Name: Quarry Pond

Site Location: **Approximately 185 feet northwest of IL 126**Latitude: **41.63588**Longitude: - **88.16382**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: 0.20 ac

Waters type (USACE 2007): ISOLATE (Isolated interstate or intrastate waters including isolated

wetlands)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No** Additional Remarks: **This site is loacted within an active quarrying operation.**

Site Number: W14Site Name: **Quarry Pond**

Site Location: Multiple pieces beginning 75 feet south of 135th Street

Latitude: **41.63759** Longitude: - **88.16383**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: **0.41 ac**

Waters type (USACE 2007): ISOLATE (Isolated interstate or intrastate waters including isolated

wetlands)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No** Additional Remarks: **This site is loacted within an active quarrying operation.**

Site Number: W15
Site Name: Pond

Site Location: Approximately 47 feet south of 135th Street Latitude: 41.63742 Longitude: - 88.17113

Community type: **Deepwater Aquatic Habitat**

National Wetlands Inventory code: L1UBHx (excavated, permanently flooded, unconsolidated

bottom, limnetic, lacustrine wetland)

Area of site occurring within the project corridor: 0.15 ac

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W16
Site Name: Lake

Site Location: Approximately 184 feet west of Wood Duck Drive

Latitude: **41.63834** Longitude: - **88.17128**

Community type: **Deepwater Aquatic Habitat**

National Wetlands Inventory code: L1UBHx (excavated, permanently flooded, unconsolidated

bottom, limnetic, lacustrine wetland)

Area of site occurring within the project corridor: **0.02 ac**

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W17 Site Name: Lake

Site Location: **Approximately 102 feet north of Lake Mary Road**Latitude: **41.63960**Longitude: - **88.16545**

Community type: **Deepwater Aquatic Habitat**

National Wetlands Inventory code: L2UBHx (excavated, permanently flooded, unconsolidated

bottom, lower perennial, lacustrine wetland)

Area of site occurring within the project corridor: 4.26 ac

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly

into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Site Number: W18Site Name: **Quarry Pond**

Site Location: Multiple pieces beginning approximately 253 feet north of 135th Street

Latitude: **41.64014** Longitude: - **88.15770**

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: **7.63 ac**

Waters type (USACE 2007): ISOLATE (Isolated interstate or intrastate waters including isolated

wetlands)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? **No** Additional Remarks: **This site is loacted within an active quarrying operation.**

Site Number: W19
Site Name: Ditch

Site Location: Approximately 181 feet northwest of Norwich Lane

Latitude: **41.62727** Longitude: - **88.16182**

Community type: **Ditch**

National Wetlands Inventory code: U (upland)

Area of site occurring within the project corridor: 0.01 ac

Linear feet: **182 ft**

Waters type (USACE 2007): NRPW (Non-RPWs that flow directly or indirectly into Traditional

Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Riffles observed? **No** Pools observed? **No**

Mussel shell material observed? No

Is the stream or body of water permanent? No

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**Stream Integrity Rating: **Not Rated**Stream Diversity Rating: **Not Rated**

Site Number: W20

Site Name: Tributary to Wetland

Site Location: Approximately 175 feet north of Plymouth Circle

Latitude: **41.63301** Longitude: - **88.15917**

Community type: **Stream**

National Wetlands Inventory code: U (upland)

Area of site occurring within the project corridor: **0.05 ac**

Linear feet: 666 ft

Waters type (USACE 2007): NRPW (Non-RPWs that flow directly or indirectly into Traditional

Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Riffles observed? **No** Pools observed? **No**

Mussel shell material observed? No

Is the stream or body of water permanent? No

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Is the stream identified by the IDNR (2008) as a biologically significant stream? **No**Stream Integrity Rating: **Not Rated**Stream Diversity Rating: **Not Rated**

Site Number: W21
Site Name: Pond

Site Location: Approximately 23 feet south of 135th Street Latitude: 41.63737 Longitude: - 88.15083

Community type: **Deepwater Aquatic Habitat**National Wetlands Inventory code: **U (upland)**

Area of site occurring within the project corridor: **0.08 ac**

Waters type (USACE 2007): RPW (Relatively Permanent Waters that flow directly or indirectly into Traditional Navigable Waters)

USGS 8-Digit Hydrologic Unit Code (HUC): 07120004 (Des Plaines River)

Watershed area: <1 mi² (USGS 2014)

Is this site a High Quality Aquatic Resource (HQAR) (USACE-CD 2012)? No

Waters of the United States Summary Table

Site No.	NWI code	Community Type	USGS 8-digit HUC	Area (ac.)¹	Linear feet ¹	INDR BSS ²	INDR SIR ²	INDR SDR ²	Waters Type
W1	U	DAH ³	07120004	3.95		No	NR ⁴	NR ⁴	RPW
W2	υ	DAH	07120004	1.21		No	NR	NR	RPW
W3	U	DAH	07120004	2.99		No	NR	NR	RPW
W4	U	DAH	07120004	0.63		No	NR	NR	RPW
W5	U	DAH	07120004	1.28		No	NR	NR	RPW
W6	U	DAH	07120004	0.19		No	NR	NR	RPW
W7	PFO1C, PEMC, and R2UBH	Stream	07120004	3.3	5124.0	No	NR	NR	RPW
W8	PEMC and R2UBHx	Stream	07120004	0.94	5057.0	No	NR	NR	RPW
W9	U	DAH	07120004	1.6		No	NR	NR	RPW
W10	U	DAH	07120004	0.89		No	NR	NR	RPW
W11	PUBGx	DAH	07120004	3.55		No	NR	NR	ISOLATE
W12	PUBGx	DAH	07120004	8.00		No	NR	NR	ISOLATE
W13	U	DAH	07120004	0.2		No	NR	NR	ISOLATE
W14	U	DAH	07120004	0.41		No	NR	NR	ISOLATE
W15	L1UBHx	DAH	07120004	0.15		No	NR	NR	RPW
W16	L1UBHx	DAH	07120004	0.02		No	NR	NR	RPW
W17	L2UBHx	DAH	07120004	4.26		No	NR	NR	RPW
W18	U	DAH	07120004	7.63		No	NR	NR	ISOLATE
W19	U	Ditch	07120004	0.01	182.0	No	NR	NR	NRPW
W20	U	Stream	07120004	0.05	666.0	No	NR	NR	NRPW
W21	U	DAH	07120004	0.08		No	NR	NR	RPW

¹ Area and linear feed within the ESR project limits. ² INDR 2008 BSS (Biologically Significant Stream), SIR (Stream Integrity Rating), and SDR (Stream Diversity Rating). ³ DAH (Deepwater aquatic habitat). ⁴ NR (Not rated).

<u>Threatened/Endangered Species and Natural Communities of Special Interest</u>

No species listed as threatened or endangered federally or in Illinois were found during our wetland survey within the project corridor. Also, no natural communities of special interest were noted.

A preliminary tree assessment for presence of suitable summer roosting sites for the Indiana bat and the northern long-eared bat was conducted. There were trees (>3 in DBH) found within the construction limits inside the project corridor with cavities or loose or peeling bark.

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APPENDIX A

Wetland Determination Forms

WETLAND DETERMINATION DATA FORM - Midwest Region

Landform (hillslope, terrace, etc.): Outwash plain Slope (%): 0 Lat: 41.59835 Long: Soil Map Unit Name: Orthents, loamy, undulating Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Dominical Presents of Plants.	Yes (If no bed? Sthe Sampled Awithin a Wetland	NWI classification: PUBGx no explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Landform (hillslope, terrace, etc.): Outwash plain Slope (%): 0 Lat: 41.59835 Long: Soil Map Unit Name: Orthents, loamy, undulating Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants.	Yes (If nobed? Sthe Sampled Awithin a Wetland	Datum: NAD 83 NWI classification: PUBGx no explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Landform (hillslope, terrace, etc.): Outwash plain Slope (%): 0 Lat: 41.59835 Long: Soil Map Unit Name: Orthents, loamy, undulating Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants.	Yes (If nobed? Sthe Sampled Awithin a Wetland	Datum: NAD 83 NWI classification: PUBGx no explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Soil Map Unit Name: Orthents, loamy, undulating Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	Yes (If no bed? atic? Coling point locals the Sampled Awithin a Wetland	NWI classification: PUBGx no explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Soil Map Unit Name: Orthents, loamy, undulating Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	Yes (If no bed? atic? Coling point locals the Sampled Awithin a Wetland	NWI classification: PUBGx no explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	Yes (If no bed? atic? Coling point local sthe Sampled A within a Wetland mant Indicator	no explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Are Vegetation No, Soil No, or Hydrology No significantly disturb Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	bed? bling point loc s the Sampled A within a Wetland	Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
Are Vegetation No, Soil No, or Hydrology No naturally problema SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	oling point locals the Sampled Awithin a Wetland	(If needed, explain any answers in Remarks.) cations, transects, important features, etc. Area 1? No Dominance Test worksheet: Number of Dominant Species
SUMMARY OF FINDINGS - Attach site map showing samp Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	oling point locals the Sampled Awithin a Wetland	Cations, transects, important features, etc. Area 1?No Dominance Test worksheet: Number of Dominant Species
Hydrophytic Vegetation Present? No Hydric Soil Present? No Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	is the Sampled A within a Wetland	Area 1? No Dominance Test worksheet: Number of Dominant Species
Hydric Soil Present? Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	within a Wetland	Dominance Test worksheet: Number of Dominant Species
Wetland Hydrology Present? No Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	within a Wetland	Dominance Test worksheet: Number of Dominant Species
Remarks: Community type is forbland. VEGETATION - Use scientific names of plants. Absolute Domin	nant Indicator	Dominance Test worksheet: Number of Dominant Species
VEGETATION - Use scientific names of plants. Absolute Domin		Number of Dominant Species
VEGETATION - Use scientific names of plants. Absolute Domin		Number of Dominant Species
Absolute Domin		Number of Dominant Species
		Number of Dominant Species
Absolute Domin		Number of Dominant Species
To Cover Spec	ies? Status	Number of Dominant Species
<u>Tree Stratum</u> (Plot size: 30 ft radius % Cover Spec		
1		That are OBL, FACW, or FAC:0 (A)
2.		Total Number of Dominant Species Across All Strata: 1 (2)
3. 4.		——————————————————————————————————————
5.		Percent of Dominant Species That are OBL, FACW, or FAC: 0%
	al Cover	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)		Prevalence Index worksheet:
1. 2.		OBL species x 1 =
3.		FACW species x 2 =
4		·
5		FAC species
Herb Stratum (Plot size: 5 ft radius)	al Cover	UPL species x 5 =
	es FACU	· — —
	No UPL	Column Totals (A) (B)
· · · · · · · · · · · · · · · · · · ·	lo FAC	Prevalence Index =B/A =
4. Achillea millefolium 1 N	No FACU	Hydrophytic Vegetation Indicators
	lo UPL	1-Rapid Test for Hydrophytic Vegetation
	No D	2-Dominance Test is >50%
	No FACU	3-Prevalence Index is < or =3.01
	lo FACU lo FACU	4-Morphological Adaptations¹ (Provide supporting
10.	NO PACO	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
-	al Cover	¹Indicators of hydric soil and wetland hydrology
Woody Vine Stratum (Plot size: 30 ft radius)	ai Covei	must be present, unless disturbed or problematic.
1.		Hydrophytic
2	-10	Vegetation
0 = Tota	al Cover	Present?

1A/2B SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 4/2 0-2 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Filled material/gravel **Hydric Soil Present?** No Depth (inches): 2 Remarks: Soil sample was not taken as deeply as normaly would due to compaction of filled material. No hydrology nor hydrophytic vegetation were present. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: I-55 (FAI 55)		City/County	/: VVIII		Sampling Date 10/21/20	14
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 2A	
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Towns	hip, Range: Sec. 1	13, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression				concave, convex, no		
Slope (%): < 1 Lat: 41.59815			6203		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Orthents, loamy,						
Are climatic/hydrologic conditions on the site typical for the				no explain in Rema	·	
Are Vegetation No , Soil No , or Hydrology No				•	ımstances" present?	Yes
Are Vegetation No , Soil No , or Hydrology No					n any answers in Remark	
	_			, , ,	•	,
SUMMARY OF FINDINGS - Attach site map	snowing s	sampling	point io	cations, transe	ects, important feat	ures, etc
Hydrophytic Vegetation Present? Yes						
Hydric Soil Present? Yes			Sampled A			
Wetland Hydrology Present? Yes		withir	a Wetland	I? Ye:	<u>s</u>	
Remarks: Community type is wet meadow.						
, ,,						
VEGETATION - Use scientific names of plants	5.					
·		Dominant	Indicator	Dominance Tes	t worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>	% Cover	Species?	Status	Number of Domi		
1.				That are OBL, FA	· · · · · · · · · · · · · · · · · · ·	(A)
2. 3.				Total Number of Species Across A		(D)
4.				Percent of Domir		(B)
5		Tatal Ca		That are OBL, FA		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)		= Total Cov	/ei	Prevalence Index	k worksheet:	· · ·
1.				Total % Cove	r of: Multiply by:	
2				OBL species	x 1 =	
3 4.				FACW species	x 2 =	
5.				FAC species	x 3 =	
	0	= Total Cov	/er	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius) 1. Eleocharis erythropoda	55	Yes	OBL	UPL species	x 5 =	(D)
2. Phragmites australis	20	Yes	FACW	Column Totals	(A)	(B)
3. Setaria glauca	3	No	FAC		nce Index =B/A =	
4 5.					etation Indicators for Hydrophytic Vegetatio	ın
				2-Dominance		11
6. 7.				_	Index is < or =3.01	
8.					cal Adaptations ¹ (Provide	
9.					ks or on a separate shee	,
10					lydrophytic Vegetation ¹ (E	• ′
Woody Vine Stratum (Plot size: 30 ft radius)	78	= Total Cov	/er		Iric soil and wetland hydr unless disturbed or prob	
1.				Hydrophytic		
2		T-1-1-0		Vegetation	Yes	
	0	= Total Cov	/er	Present?		
Remarks: (Include photo numbers here or on a separate	e sheet.)					

SOIL Sampling Point: 2A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 10YR 4/3 0-4 10YR 3/1 98 SIL 100 SIL 4-6 2.5Y 4/1 10% gravel Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material/gravel Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: This soil sample was not taken as normally would due to disturbance and compaction of filled material/gravel. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

US Army Corps of Engineers Midwest Region - Version 2.0

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: I-55 (FAI 55)	City/Co	ounty: Will		Sampling Date 10/21/	2014
Applicant/Owner: IDOT District 1			State: IL	Sampling Point 3A	
Investigator(s): Tsai, Marcum, and Handel	;	Section, Townsh	nip, Range: Sec	c. 13, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression		_ Local relief (c	oncave, convex,	none): Concave	
Slope (%): <u>< 1</u> Lat: <u>41.60773</u>	Long:	88.16249		Datum: NAD 83	
Soil Map Unit Name: Warsaw silt loam, 2-4 % slopes			NWI clas	ssification: U	
Are climatic/hydrologic conditions on the site typical for this tim	e of year?	Yes (If r	no explain in Rer	marks.)	
Are Vegetation No , Soil No , or Hydrology No signi	ficantly disturbe	ed?	Are "Normal Ci	rcumstances" present?	Yes
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natur	rally problemati	ic?	(If needed, expl	lain any answers in Rem	arks.)
SUMMARY OF FINDINGS - Attach site map sho	wing samnl	ing point lo	cations tran	sects important fe	atures etc
Hydrophytic Vegetation Present? Yes	wing sampi	ing point io	oations, train	ocoto, important re	
Hydric Soil Present? Yes		the Sampled A		′ es	
Wetland Hydrology Present? Yes			·		
Remarks: Community type is wet shrubland. This portion of the wetland was fenced in and we couldn't acc	ess it for a soil	sample.			
VEGETATION - Use scientific names of plants.					
	solute Domina		Dominance To	est worksheet:	
1100 Ottatum (1 lot size. Whole site	Cover Specie	es? Status		minant Species	
1. 2.			Total Number	FACW, or FAC:	(A)
3.			Species Acros		(B)
4				minant Species	()
5	= Total	Cover	I hat are OBL,	FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: whole site)		=		dex worksheet:	
1. Salix interior	Ye	s FACW	OBL species	ver of: Multiply I x 1 =	
2. 3.			FACW species		
4			FAC species	x 3 =	
5	= Total	Covor	FACU species	x 4 =	<u></u>
Herb Stratum (Plot size: whole site)	= TOIAI	Covei	UPL species	x 5 =	
1. Typha angustifolia	Ye	s OBL	Column Totals	(A)	(B)
2. 3.			Preva	lence Index =B/A =	
4.				egetation Indicators	
5			-	st for Hydrophytic Vegeta	ation
6. 7.				ce Test is >50% ce Index is < or =3.01	
8.			4-Morpholo	gical Adaptations1 (Provi	de supporting
9. 10.			-	narks or on a separate sharks or on a separate sharks	
	= Total	Cover		ydric soil and wetland h	` ' '
Woody Vine Stratum (Plot size: whole site)		00101		nt, unless disturbed or pr	
1. 2.	= Total	Cover	Hydrophytic Vegetation Present?	Yes	
Pomorko: (Include photo numbers here or on a constitution of	 -				
Remarks: (Include photo numbers here or on a separate shee This site was inside of a locked fence; therefore, a sampling p site.	,	ossible. Domina	ant vegetation wa	as visually estimated for	the whole

Depth Matrix		Features			5 .
nches) Color (moist)	% Color (moist)	% Type ¹	Loc ² T	exture	Remarks
/pe: C=Concentration, D=Depletion, I	RM=Reduced Matrix, MS=Ma	sked Sand Grains.			ation: PL=Pore Lining, M=Matr
/dric Soil Indicators:	_		Ind	icators for	Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed			Coast I	Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (Dark S	urface (S7)
Black Histic (A3)	Stripped Matrix			☐ Iron-Ma	anganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky			☐ Very S	hallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed			Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matri	` '			
Depleted Below Dark Surface (A11	_	` ,		3 .	
Thick Dark Surface (A12)	Depleted Dark				s of hydrophytic vegetation and drology must be present, unle
Sandy Mucky Mineral (S1)	Redox Depress	sions (F8)			sturbed or problematic.
5 cm Mucky Peat or Peat (S3)					
Restrictive Layer (if observed):					
Type:			Hydr	ic Soil Pre	sent? Yes_
Depth (inches):					
		site has obvious hy	drophytic veg	etation and	satisfies hydrology indicators
Remarks: Soil sample was not taken of therefore, in our opinion this		site has obvious hy	drophytic veg		satisfies hydrology indicators
Remarks: Soil sample was not taken of therefore, in our opinion this SYDROLOGY Wetland Hydrology Indicators:	s site is a wetland.	site has obvious hy	drophytic veg	Seco	
Remarks: Soil sample was not taken of therefore, in our opinion this sample was not taken of therefore, in our opinion this sample was not taken of the sample was not taken of t	s site is a wetland.	site has obvious hydelete has	drophytic veg	Seco (minii	ndary Indicators
Remarks: Soil sample was not taken of therefore, in our opinion this an analysis of the sample was not taken of taken of the sample was not taken of	s site is a wetland.	ed Leaves (B9)	drophytic veg	Seco (minir	ndary Indicators mum of two is required)
Remarks: Soil sample was not taken of therefore, in our opinion this sample was not taken of therefore, in our opinion this sample was not taken of the sample was not taken of taken	required: check all that apply) Water-Staine	ed Leaves (B9) na (B13)	drophytic veg	Seco (minin	ndary Indicators mum of two is required) surface Soil Cracks (B6)
Remarks: Soil sample was not taken of therefore, in our opinion this sample was not taken of therefore, in our opinion this sample was not taken of the sample was not taken of taken	required: check all that apply) Water-Staine Aquatic Faun True Aquatic	ed Leaves (B9) na (B13)	drophytic veg	Seco (minii S	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10)
Remarks: Soil sample was not taken of therefore, in our opinion this sample was not taken of therefore, in our opinion this sample was not taken of the sample was not taken of tak	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su	ed Leaves (B9) na (B13) Plants (B14)		Seco (minin	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2)
Remarks: Soil sample was not taken of therefore, in our opinion this sample was not taken of therefore, in our opinion this sample was not taken of the sample was not taken of t	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	ed Leaves (B9) na (B13) Plants (B14) Ifide Odor (C1)		Seco (mining) Seconds of the seconds of the second of the	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9)
Remarks: Soil sample was not taken of therefore, in our opinion this sample was not taken of therefore, in our opinion this sample was not taken of the sample was not taken of t	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	ed Leaves (B9) na (B13) Plants (B14) Ilfide Odor (C1) zospheres on Living	g Roots (C3)	Seco (mining) S C C C C S Ir	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1
Remarks: Soil sample was not taken of therefore, in our opinion this series of the ser	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	ed Leaves (B9) na (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled	g Roots (C3)	Seco (minin S C C S Ir	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is recomply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F	ed Leaves (B9) na (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled urface (C7)	g Roots (C3)	Seco (minin S C C S Ir	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1
Primary Indicators (minimum of one is result of Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) I therefore, in our opinion this result of the property of the proposits (B5) Primary Indicators (minimum of one is result of the primary Indicators (minimum of one is result of the primary Indicators (minimum of one is result of the primary Indicators (Marks (B1)) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su (B7) Gauge or We	ed Leaves (B9) na (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled urface (C7)	g Roots (C3)	Seco (minin S C C S Ir	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Prince 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 Sparsely Vegetated Concave Surface (Abneroff)	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck St (B7) Gauge or We	ed Leaves (B9) ha (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled in urface (C7)	g Roots (C3)	Seco (minin S C C S Ir	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Remarks: Soil sample was not taken of therefore, in our opinion this series of the ser	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su (B7) Gauge or We (B8) Other (Explai	ed Leaves (B9) ha (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled in urface (C7)	g Roots (C3)	Seco (minin S C C S Ir	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Remarks: Soil sample was not taken of therefore, in our opinion this service of the service of t	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su (B7) Gauge or We (B8) Other (Explained)	ed Leaves (B9) ha (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled in urface (C7)	g Roots (C3) Soils (C6)	Seco (mining Secon)	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1 Geomorphic Position (D2) FAC-Neutral Test (D5)
Remarks: Soil sample was not taken of therefore, in our opinion this series of the ser	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su (B7) Gauge or We (B8) Other (Explai	ed Leaves (B9) ha (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled in urface (C7)	g Roots (C3)	Seco (mining Secon)	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1 Geomorphic Position (D2) FAC-Neutral Test (D5)
Proposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Water Present? No Description Deposits (B2) Drift Deposits (B5)	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su (B7) Gauge or We (B8) Other (Explain	ed Leaves (B9) ha (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled a urface (C7) ell Data (D9) in in Remarks)	g Roots (C3) Soils (C6) Wetland H	Seco (minini S C S In S V	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1 Geomorphic Position (D2) FAC-Neutral Test (D5)
Property Pro	required: check all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su (B7) Gauge or We (B8) Other (Explain	ed Leaves (B9) ha (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled a urface (C7) ell Data (D9) in in Remarks)	g Roots (C3) Soils (C6) Wetland H	Seco (minini S C S In S V	ndary Indicators mum of two is required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial magery (C9) Stunted or Stressed Plants (D1 Geomorphic Position (D2) FAC-Neutral Test (D5)

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WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: I-55 (FAI 55)		City/County	: Will		Sampling Date 1	10/21/2014	
Applicant/Owner: IDOT District 1				State: IL S	Sampling Point 3	3B	
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Townsh	nip, Range: Sec. 1	3, T36N, R9E		
Landform (hillslope, terrace, etc.): Outwash plain			cal relief (c	oncave, convex, no	ne): None		
Slope (%): 0 Lat: 41.60778		Long: -88.1	6274		Datum: NAD	D 83	
Soil Map Unit Name: NRCS mapped as Warsaw silt loam, 2-4 %							
Are climatic/hydrologic conditions on the site typical for this time				—— no explain in Remar	<u> </u>		
Are Vegetation No , Soil No , or Hydrology No signific	-			Are "Normal Circu	,	ent? Ye	es.
Are Vegetation No , Soil No , or Hydrology No natura				(If needed, explain		<u> </u>	<u>,,, </u>
SUMMARY OF FINDINGS - Attach site map show			point loc		-		es. etc
Hydrophytic Vegetation Present? No	3			,			,
Hydric Soil Present? No							
			Sampled A a Wetland				
Wetland Hydrology Present? NoNo							
Remarks: Community type is non-native grassland.							
VEGETATION - Use scientific names of plants.							
Abso	olute	Dominant	Indicator	Dominance Test	workshoot:		
Tree Stratum (Plot size: 30 ft radius % C	over	Species?	Status	Number of Domin			
1.				That are OBL, FA	-	0	(A)
2. 3.				Total Number of I Species Across A		1	
3. 4.				Percent of Domin	-		_ (B)
5.				That are OBL, FA		0%	(A/B)
Sapling/Shrub Stratum (Plot size:15 ft radius)	0	= Total Cov	er	Prevalence Index	worksheet:		(' /
1.				Total % Cover	of: Mul	Itiply by:	
2				OBL species	x 1 =		
3				FACW species	x 2 =		
5.				FAC species	x 3 =	·	
	0	= Total Cov	er	FACU species		·	
Herb Stratum (Plot size: 5 ft radius)		.,		UPL species	x 5 =		
Festuca elatior Glechoma hederacea	60 15	Yes No	FACU FACU	Column Totals	(A)		(B)
3. Poa pratensis	15	No	FAC	- Prevalen	ce Index =B/A =		
4. Plantago lanceolata	5	No	FACU	Hydrophytic Vege			
5. Arctium minus	1	No	FACU	1-Rapid Test fo		egetation	
Daucus carota Setaria glauca	1	No No	UPL FAC	 	ndex is < or =3.0	1 1	
8. Taraxacum officinale	1	No	FACU		al Adaptations¹ (portina
9. 10.				data in Remarl	ks or on a separa	ate sheet)	
	100	= Total Cov	er	¹ Indicators of hyd must be present,	ric soil and wetla	and hydrolog	Эу
1.				Hydrophytic		,	-
2	0	= Total Cov	er	Vegetation Present?	No		
Remarks: (Include photo numbers here or on a separate sheet	i.)						

SOIL Sampling Point: 3B

Profile Des	cription: (Describe to	the depth r	needed to document	the indic	ator or o	onfirm	the absen	ce of i	indicators.)	
	Matrix		Redox F						,	
Depth . (inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-3.5	10YR 3/1	100	Coloi (Illoist)	/0	туре	LUC	SIL		Remarks	
3.5-5.5	10YR 4/3	100					SICL			
5.5-7.5	10YR 3/1	100					SIL			
7.5-10	2.5Y 5/1	95	10YR 5/6	5	С	М	SICL			
10-12+	10YR 3/1	100					SIL			
1	to-C D. David-C-	- DM Dark	and Market MO Mark		0		2		DI D. Livie	BA BA-1-2-
	ncentration, D=Depletio	n, RIVI=Real	iced Matrix, MS=Mask	ed Sand	Grains.				on: PL=Pore Linin	
Hydric Soil I				-1 (0.4)					Problematic Hydr	ic Soils :
Histosol			Sandy Gleyed M				☐ Co	ast Pra	airie Redox (A16)	
	pipedon (A2)		Sandy Redox (S				☐ Da	rk Sur	face (S7)	
	stic (A3)		Stripped Matrix (,			☐ Iro	n-Man	ganese Masses (I	F12)
	n Sulfide (A4)		Loamy Mucky M				☐ Ve	ry Sha	Illow Dark Surface	e (TF12)
	d Layers (A5)		Loamy Gleyed M				Ot	her (Ex	kplain in Remarks)
	ıck (A10)		Depleted Matrix							
Depleted	d Below Dark Surface (A	A11)	Redox Dark Surf	` '						
Thick Da	ark Surface (A12)		Depleted Dark S	urface (F	7)				of hydrophytic veg	
Sandy N	lucky Mineral (S1)		Redox Depression	ons (F8)			wetlan		ology must be pre urbed or problema	
☐ 5 cm Mu	icky Peat or Peat (S3)							uist	urbed or problems	alic.
Restrictive L	ayer (if observed):									
Type:	. ,						lydric Soil	Droce	ent? No	
Depth (inche	es):		_			'	iyuric 30ii	riese	iit: <u>140</u>	
	his soil sample was dis									
HYDROLO	GY									
Wetland Hyd	Irology Indicators:						5	Second	lary Indicators	
Primary Indic	ators (minimum of one	is required:	check all that apply)				(minimu	um of two is requi	red)
Surface W	/ater (A1)			Leaves (I	B9)		[Sur	face Soil Cracks	(B6)
☐ High Wate	er Table (A2)		Aquatic Fauna	(B13)				Dra	ninage Patterns (B	10)
Saturation			True Aquatic P		4)				-Season Water T	*
Water Ma			Hydrogen Sulfi				Ī		yfish Burrows (C8	` ,
	Deposits (B2)		Oxidized Rhizo		,	Roots (C3)		turation Visible on	*
Drift Depo	. , ,		Presence of Re		_	`	, .		agery (C9)	
	or Crust (B4)		Recent Iron Re			oils (C6) [Stu	inted or Stressed	Plants (D1)
☐ Iron Depo			☐ Thin Muck Surf			(50)	, [Geo	omorphic Position	(D2)
	n Visible on Aerial Imag	ery (B7)	Gauge or Well)		[FAG	C-Neutral Test (D	5)
	Vegetated Concave Sur	, ,	Other (Explain							
Field Observ			Other (Explain	III I TOITIGI	110)					
Surface Water		Depth (incl	nes):							
Water Table	·	Depth (incl	•							
Saturation Pr		Depth (incl	•			Wetlan	nd Hydrolo	gy Pre	esent? No	
	orded Data (stream ga	uge, monitor	ing well, aerial photos	, previous	s inspect	ions), if a	available:			
	(5 , - ,	J , , , , , , , , , , , , , , , , , , ,			,,				
D !										
Remarks:										

Project/Site: I-55 (FAI 55)	City/County: Will		Sampling Date 10/21/2	014
Applicant/Owner: IDOT District 1		State: IL	Sampling Point 4A	
Investigator(s): Tsai, Marcum, and Handel	Section, Tow	nship, Range: Sec	c. 14, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression	Local relie	f (concave, convex,	none): Concave	
Slope (%): <u>< 1</u> Lat: <u>41.60800</u>	Long: <u>-88.16498</u>		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Warsaw silt loam, 2-4 % slc	pes; revised to Aquoll	NWI clas	ssification: U	
Are climatic/hydrologic conditions on the site typical for this time of y	ear? Yes	(If no explain in Rer	narks.)	
Are Vegetation No, Soil No, or Hydrology No significant	ly disturbed?	Are "Normal Cir	rcumstances" present?	Yes
Are Vegetation No, Soil No, or Hydrology No naturally p	roblematic?	(If needed, expl	lain any answers in Remai	rks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations tran	sects important fea	atures etc
Hydrophytic Vegetation Present? Yes		iooutiono, trui		
Hydric Soil Present? Yes				
	Is the Sample within a Wetla		Yes	
Wetland Hydrology Present? Yes				
Remarks: Community type is marsh.				
VEGETATION - Use scientific names of plants.				
Absolute Tree Stratum (Plot size: 30 ft radius) % Cover		Dominance in	est worksheet:	
1.			minant Species FACW, or FAC:	(A)
Z		Total Number	of Dominant	(7.7
3		Species Acros		(B)
5			minant Species FACW, or FAC:	(A /D)
Sapling/Shrub Stratum (Plot size:15 ft radius)	= Total Cover		dex worksheet:	(A/B)
1			ver of: Multiply by	v:
2		OBL species	x 1 =	
J		FACW species		
4 5.		FAC species	x 3 =	
0	= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)		UPL species	x 5 =	
1. Phragmites australis 100 2.	Yes FACW	Column Totals		(B)
3.			lence Index =B/A =	
4			egetation Indicators st for Hydrophytic Vegetati	ion
6.			ce Test is >50%	ЮП
7.			ce Index is < or =3.01	
8			gical Adaptations1 (Provide	
9. 10.			narks or on a separate she c Hydrophytic Vegetation¹	,
	- Total Cover		nydric soil and wetland hyd	` ' '
Woody Vine Stratum (Plot size: 30 ft radius)	_ = Total Cover		nt, unless disturbed or pro	
1.		Hydrophytic		
2	= Total Cover	Vegetation Present?	Yes	
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 0-3 10YR 3/1 97 10YR 4/3 3 SIL SICL 3-8.5 10YR 3/1 92 10YR 4/3 5 С Μ 3-8.5 10YR 5/1 3 D Μ 8.5-12+ 10YR 3/1 87 10YR 4/4 8 С Μ SIL 8.5-12+ 10YR 5/1 5 D Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

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Remarks:

Landform (hillslope, terrace, etc.): Outwash plain Slope (%): 0	Local relief (c 8.16501 Yes (lf r d?	oncave, convex, none): None Datum: NWI classification: U no explain in Remarks.) Are "Normal Circumstances" (If needed, explain any answe	NAD 83 present? Yes ers in Remarks.)
Landform (hillslope, terrace, etc.): Outwash plain Slope (%): 0	Yes (If r	oncave, convex, none): None Datum: NWI classification: U no explain in Remarks.) Are "Normal Circumstances" (If needed, explain any answe	NAD 83 present? Yes ers in Remarks.)
Landform (hillslope, terrace, etc.): Outwash plain Slope (%): 0	Yes (If r	oncave, convex, none): None Datum: NWI classification: U no explain in Remarks.) Are "Normal Circumstances" (If needed, explain any answe	NAD 83 present? Yes ers in Remarks.)
Slope (%): 0 Lat: 41.60804 Long: -88 Soil Map Unit Name: Warsaw silt loam, 2-4 % slopes Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturbed Are Vegetation No, Soil No, or Hydrology No naturally problematic SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? No Hydric Soil Present? No Ist	Yes (If r d?	NWI classification: U no explain in Remarks.) Are "Normal Circumstances" (If needed, explain any answe	NAD 83 present? Yes ers in Remarks.)
Soil Map Unit Name: Warsaw silt loam, 2-4 % slopes Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturbed Are Vegetation No, Soil No, or Hydrology No naturally problematic SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? No Hydric Soil Present? No Ist	Yes (If r d? c? ng point loc	NWI classification: U no explain in Remarks.) Are "Normal Circumstances" (If needed, explain any answe	present? <u>Yes</u> ers in Remarks.)
Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation No, Soil No, or Hydrology No significantly disturbed No Vegetation No, Soil No, or Hydrology No naturally problematic SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? No Hydric Soil Present? No Is to see the site of this time of year? No Significantly disturbed No No Significantly disturbed No	Yes (If r d? :? ng point loo	Are "Normal Circumstances" (If needed, explain any answe	ers in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed Are Vegetation No, Soil No, or Hydrology No naturally problematic SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? No Is to still the side of the Area of Standard No.	d? ng point loc	Are "Normal Circumstances" (If needed, explain any answe	ers in Remarks.)
Are Vegetation No, Soil No, or Hydrology No naturally problematic SUMMARY OF FINDINGS - Attach site map showing samplin Hydrophytic Vegetation Present? No Hydric Soil Present? No Ist	ng point loc	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling Hydrophytic Vegetation Present? Hydric Soil Present? No Is to see the second sampling sam	ng point loo	cations, transects, impo	,
Hydrophytic Vegetation Present? No Hydric Soil Present? No Is t	the Sampled A	•	oriant leatures, etc
Hydric Soil Present? No Is t		Area	
		Area	
Wetland Hydrology Present? No No	inin a wenanu		
		I? <u>NO</u>	
Remarks: Community type is non-native grassland.			
VEGETATION - Use scientific names of plants.			
Absolute Dominar		Dominance Test worksheet	t:
Tree Stratum (Plot size: 30 ft radius) % Cover Species	s? Status	Number of Dominant Species	
1. 2.		That are OBL, FACW, or FAC	C: 1 (A)
3.		Total Number of Dominant Species Across All Strata:	2 (B)
4.		Percent of Dominant Species	, ,
5	Covor	That are OBL, FACW, or FAC	C: <u>50%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	Cover	Prevalence Index workshee	t:
1		Total % Cover of:	
2.			x 1 =
3. 4.		·	x 2 =
5.		FAC species	x 3 =
Useb Stratum (Diet size: 5 th andius)	Cover		x 4 =
Herb Stratum (Plot size: 5 ft radius) 1. Poa pratensis 70 Yes	FAC	· —	x 5 =(P)
2. Trifolium repens 40 Yes		Prevalence Index =E	(A)(B)
3. Festuca elatior 10 No	FACU		
4. Taraxacum officinale 3 No 5. Plantago rugelii 2 No	FACU FAC	Hydrophytic Vegetation Indi 1-Rapid Test for Hydrophy	
6. Rumex crispus 1 No	FAC	2-Dominance Test is >50%	_
7.		3-Prevalence Index is < or	r =3.01
8.		4-Morphological Adaptatio	
9. 10.		data in Remarks or on a s Problematic Hydrophytic \	•
126 = Total (Cover	¹Indicators of hydric soil and	
Woody Vine Stratum (Plot size: 30 ft radius)	OUVEI	must be present, unless distu	
1.		Hydrophytic	
2	Cover	Vegetation No Present?	
Remarks: (Include photo numbers here or on a separate sheet.)		F1696III.	_

SOIL Sampling Point: 4B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 0-10 10YR 3/1 99 10YR 4/2 1 SICL 98 10YR 4/4 SICL 10-12 10YR 3/1 2 С Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/County	/: VVIII		_ Sampling Date	e 10/21/2014	
Applicant/Owner: IDOT District 1				State: IL	_ Sampling Poir	nt 5A	
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Townsh	nip, Range: Sec	c. 14, T36N, R9E		
Landform (hillslope, terrace, etc.): Depression		Lo	ocal relief (c	oncave, convex,	none): Concav	/e	
Slope (%): < 1 Lat: 41.60680	Lo	ong: <u>-88.1</u>	6405		Datum: N	IAD 83	
Soil Map Unit Name: NRCS mapped as Warsaw silt loam, 2-4 9	% slopes	; revised t	o Aquoll	NWI clas	ssification: U		
Are climatic/hydrologic conditions on the site typical for this time	of year	? Ye	s (If n	o explain in Rer	narks.)		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signifi	cantly d	isturbed?		Are "Normal Cir	rcumstances" pro	esent? Y	es
Are Vegetation No , Soil No , or Hydrology No natura	ally prob	lematic?		(If needed, expl	ain any answers	in Remarks.))
SUMMARY OF FINDINGS - Attach site map show	vina sa	amplina	point loc	cations, tran	sects. impor	tant featu	res. etc
Hydrophytic Vegetation Present? Yes			•	•	, ,		
Hydric Soil Present? Yes		ls tha	Sampled A	rea			
Wetland Hydrology Present? Yes			a Wetland		/es		
Remarks: Community type is wet meadow.							
VEGETATION - Use scientific names of plants.				_			
Absorting (Plateins on the Fig. 1)		Oominant Species?	Indicator Status	Dominance To	est worksheet:		
1100 Ottatum (1 lot 3120. 30 it faulus	0101	.	Otatuo		minant Species FACW, or FAC:		(4)
1. 2.				Total Number	•		_ (A)
3				Species Acros	s All Strata:	-	_ (B)
4					minant Species		
	0 =	: Total Cov	/er		FACW, or FAC:		_ (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)					dex worksheet:	Multiply by	
1				OBL species	ver of: 1	<u>viuitipiy by:</u> 1 =	-
3.				FACW species		2 =	=
4				FAC species	x	3 =	-
5	0 =	: Total Cov	/or	FACU species	x	4 =	=
Herb Stratum (Plot size: 5 ft radius)		Total Cov	CI	UPL species	·	5 =	_
1. Phragmites australis	40	Yes	FACW	Column Totals	(A))	(B)
Eleocharis erythropoda 3.	5	No	OBL	Preva	lence Index =B/A	\ =	_
3. 4.					egetation Indica		
5				-	st for Hydrophytic	c Vegetation	
6.				_	ce Test is >50%	0.01	
7. 8.					ce Index is < or = gical Adaptations		nnorting
9.					gical Adaptations narks or on a sep		pporting
10.				Problemation	Hydrophytic Ve	getation¹ (Exp	olain)
Woody Vine Stratum (Plot size: 30 ft radius)	45 =	: Total Cov	ver .		nydric soil and we nt, unless disturb		
1.				Hydrophytic			
2		Total Cov	ver	Vegetation Present?	Yes	=	
Remarks: (Include photo numbers here or on a separate sheet	t.)			4			
, ,	•						

SOIL Sampling Point: 5A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 10YR 3/1 0-12+ 95 10YR 5/4 2 SICL 0-12+10YR 5/1 3 D Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/County: W	Vill	Sam	pling Date 10/2	21/2014
Applicant/Owner: IDOT District 1		S	tate: IL Sam	pling Point 5B	
Investigator(s): Tsai, Marcum, and Handel	Section,	Township, I	Range: Sec. 14, T	36N, R9E	
Landform (hillslope, terrace, etc.): Outwash plain			ave, convex, none):		
Slope (%): 0 Lat: _41.60672				Datum: NAD 83	3
Soil Map Unit Name: Warsaw silt loam, 2-4 % slopes		_	NWI classification		<u> </u>
· · · · · · · · · · · · · · · · · · ·		(16	_	on. <u> </u>	
Are climatic/hydrologic conditions on the site typical for this time of year		_	(plain in Remarks.)		
Are Vegetation No, Soil No, or Hydrology No significantly			"Normal Circumsta		
Are Vegetation No, Soil No, or Hydrology No naturally pro	blematic?	(If r	needed, explain any	answers in Re	marks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling po	int locati	ons, transects	, important	features, et
Hydrophytic Vegetation Present? No					
Hydric Soil Present? Yes	Is the Sar	mpled Area			
Wetland Hydrology Present? No	within a V	•	No		
Remarks: Community type is native grassland planting.					
VEGETATION - Use scientific names of plants.					
Absolute			minance Test wo	rksheet:	
Tree Stratum (Plot size: 30 ft radius) % Cover	Species? S		mber of Dominant	•	
1.			at are OBL, FACW		1 (A)
2. 3.			tal Number of Dom ecies Across All St		2 (D)
3. 4.		·	rcent of Dominant	-	(B)
5.			at are OBL, FACW		50% (A/B)
Conling/Shrub Stratum (Diet cize: 15 ft radius)	= Total Cover	Dro	valence Index wo		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius) 1. Lonicera maackii 1	No UF	-	Total % Cover of:		y by:
1. Lonicera maackii 1 2.			BL species	x 1 =	<u>у Бу. </u>
3.			CW species	x 2 =	 -
4.			C species	x 3 =	
5			CU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)	= Total Cover		L species	x = x 5 =	
1. Poa pratensis 30	Yes FA		lumn Totals	(A)	(B)
2. Sorghastrum nutans 30		ACU	Prevalence Ir		(D)
3. Solidago canadensis 20		VCU			
4. Coronilla varia 15	No UF		drophytic Vegetation 1-Rapid Test for H		atation
5. Ratibida pinnata 5 6. Dipsacus laciniatus 4	No UF		2-Dominance Test		nation
7. Elymus canadensis 3			3-Prevalence Index		
8. Monarda fistulosa 3			4-Morphological Ad		vide supporting
9. Eupatorium altissimum 2	No UF	입	data in Remarks or		
10. Erigeron annuus 1	No FA	ACU L	Problematic Hydro	phytic Vegetation	on¹ (Explain)
Woody Vine Stratum (Plot size: 30 ft radius)	= Total Cover		dicators of hydric soust be present, unle		
1			ydrophytic		1
2			egetation	No	
0	= Total Cover		resent?	No	
Remarks: (Include photo numbers here or on a separate sheet.)					

SOIL Sampling Point: 5B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 0-10 10YR 3/1 92 10YR 4/4 8 SIL SICL 10-13+ 10YR 4/3 98 10YR 4/6 2 С Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		_ City/Count	y: Will		_ Sampling Date _10/21/201	4
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 6A	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec	. 14, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression		L	ocal relief (d	concave, convex,	none): Concave	
Slope (%): < 1 Lat: 41.60445		Long: -88.	16391		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Will silty clay loan	n, 0-2 % sl	opes; revise	d to Aquent	NWI clas	sification: U	_
Are climatic/hydrologic conditions on the site typical for this			-	no explain in Rem		
Are Vegetation No , Soil No , or Hydrology No					cumstances" present?	'es
Are Vegetation No , Soil No , or Hydrology No	-				ain any answers in Remarks	
SUMMARY OF FINDINGS - Attach site map s				, , ,	,	,
Hydrophytic Vegetation Present? Yes	silowing	Sampini	y point io	cations, trans	sects, important reatu	163, 616
Hydric Soil Present? Yes			e Sampled <i>I</i> n a Wetland		es	
Wetland Hydrology Present? Yes						
Remarks: Community type is marsh.						
VEGETATION - Use scientific names of plants.						
Troe Street in (Diet size) 20 ft and in a	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te		
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>)	70 0010.	ороског.		Number of Don	ninant Species FACW, or FAC:	(A)
1. 2.				Total Number of	•	(A)
3.				Species Across	All Strata:	(B)
4. 5.				Percent of Dom That are OBL,	ninant Species FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	0	_ = Total Co	ver	Prevalence Ind	ex worksheet:	
1.				Total % Cov	ver of: Multiply by:	_
2				OBL species	x 1 =	_
3. 4.				FACW species		=
5.				FAC species	x 3 =	_
	0	= Total Co	ver	FACU species	x 4 =	_
Herb Stratum (Plot size: 5 ft radius)	20	V	EA C)A/	UPL species	x 5 =	- (5)
Spartina pectinata Phalaris arundinacea	30 20	Yes Yes	FACW FACW	Column Totals	(A)	_(B)
3. Phragmites australis	20	Yes	FACW		ence Index =B/A =	_
4. Typha angustifolia	20	Yes	OBL		egetation Indicators	
5. Rumex crispus	1	No	FAC	-	t for Hydrophytic Vegetation e Test is >50%	
6. 7.					e Index is < or =3.01	
8				4-Morpholog	ical Adaptations1 (Provide s	
9. 10.				_	arks or on a separate sheet) Hydrophytic Vegetation¹ (Ex	
Woody Vine Stratum (Plot size: 30 ft radius)		_ = Total Co	ver		ydric soil and wetland hydrol it, unless disturbed or proble	
1.				Hydrophytic		
2	0	= Total Co	ver	Vegetation Present?	Yes	
Remarks: (Include photo numbers here or on a separate	sheet.)					

SOIL Sampling Point: 6A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Loc Texture Remarks Type 0-3 2.5Y 3/1 100 MK 3-9 2.5Y 5/2 95 10YR 5/6 5 C Μ SIL 9-13+ 2.5Y 2.5/1 92 10YR 4/4 3 С Μ SICL 9-13+ 5YR 4/4 5 С PL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) ✓ 2 cm Muck (A10) ✓ Depleted Matrix (F3) ✓ Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ✓ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: I-55 (FAI 55)		_ City/Count	y: Will		Sampling Date 10/21/2014	
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 6B	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 1	4, T36N, R9E	
Landform (hillslope, terrace, etc.): Outwash plain		L	ocal relief (d	concave, convex, no	one): None	
Slope (%): 0 Lat: 41.60480		Long: <u>-88.1</u>	6378		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Will silty clay loar	n, 0-2 % slo	opes; revised	d to Udoll	NWI classit	fication: U	
Are climatic/hydrologic conditions on the site typical for this	s time of ye	ear? Ye	es (If	no explain in Rema	rks.)	
Are Vegetation No , Soil No , or Hydrology No				Are "Normal Circu	ımstances" present? Y	es
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain	n any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map 9				cations, transe	ects. important featu	res. etc
Hydrophytic Vegetation Present? No	<u>9</u>		, p			,
Hydric Soil Present? No						
			Sampled <i>I</i> n a Wetland		1	
Wetland Hydrology Present? NoNo						
Remarks: Community type is native grassland planting.						
VEGETATION - Use scientific names of plants.						
	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	t worksheet:	
Tree Stratum (Plot size: 30 ft radius 1.			Status	Number of Domir That are OBL, FA		(4)
2.				Total Number of	· · · · · · · · · · · · · · · · · · ·	_ (A)
3.				Species Across A		_ (B)
4. 5.				Percent of Domir That are OBL, FA		_ (A/B)
Sapling/Shrub Stratum (Plot size:15 ft radius)	0	_ = Total Co	ver	Prevalence Index	worksheet:	
1. Salix interior	2	No	FACW	Total % Cove	r of: Multiply by:	-
2. Lonicera morrowii	1	No	FACU	OBL species	x 1 =	=
3. 4.				FACW species	x 2 =	=
5.				FAC species	x 3 =	
	3	= Total Co	ver	FACU species	x 4 =	=
Herb Stratum (Plot size: 5 ft radius)	45	V	FAC	UPL species	x 5 =	-
Poa pratensis Solidago canadensis	45 15	Yes Yes	FAC FACU	Column Totals	(A)	_(B)
3. Andropogon gerardii	12	No	FAC		ice Index =B/A =	=
4. Sorghastrum nutans	12	No	FACU		etation Indicators for Hydrophytic Vegetation	
5. Panicum virgatum 6. Elymus canadensis	5 2	No No	FAC FACU	2-Dominance		
7.					Index is < or =3.01	
8					al Adaptations1 (Provide su	pporting
9 10.					ks or on a separate sheet) lydrophytic Vegetation¹ (Ex	nlain)
		= Total Co	ver	¹ Indicators of hyd	Iric soil and wetland hydrold	ogy
Woody Vine Stratum (Plot size: 30 ft radius) 1					unless disturbed or proble	matic.
2.	0	= Total Co	ver	Hydrophytic Vegetation Present?	No	
Remarks: (Include photo numbers here or on a separate	sheet.)					

SOIL Sampling Point: 6B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/1 0-12 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/County: Will	Sa	mpling Date 10/21/2014	
Applicant/Owner: IDOT District 1		State: IL Sa	mpling Point 7A	
Investigator(s): Tsai, Marcum, and Handel	Section, Townsh	ip, Range: Sec. 14,	T36N, R9E	
Landform (hillslope, terrace, etc.): Outwash plain	Local relief (co	oncave, convex, none	e): None	
Slope (%): 0 Lat: 41.60844	Long: <u>-88.16732</u>		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Lorenzo loam, 4-6 % slopes,	eroded	NWI classifica	ation: PEMC	
Are climatic/hydrologic conditions on the site typical for this time of year	ar? Yes (If n	o explain in Remarks	s.)	
Are Vegetation No, Soil No, or Hydrology No significantly	disturbed?	Are "Normal Circums	stances" present? Yes	es
Are Vegetation No , Soil No , or Hydrology No naturally pro	blematic?	(If needed, explain a	ny answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	sampling point loo	ations, transect	ts, important featur	es, etc
Hydrophytic Vegetation Present? No				
Hydric Soil Present? No	Is the Sampled A	rea		
Wetland Hydrology Present? No	within a Wetland		_	
Remarks: Community type is developed land.				
Vegetation and soil samples were not taken because the site was fill	ed in by concrete. No h	ydric soils, hydrophyt	ic vegetation, and hydrol	ogy
were present.				
VEGETATION - Use scientific names of plants.				
Absolute	Dominant Indicator	Dominance Test w	orkohooti	
Tree Stratum (Plot size: % Cover	Species? Status	Number of Dominar		
1.		That are OBL, FAC		(A)
2		Total Number of Do Species Across All	Strata:	
3. 4.		Percent of Dominar		_ (B)
5.		That are OBL, FAC	M or EAC:	_ (A/B)
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Prevalence Index w		(,,,,)
1.		Total % Cover of	f: Multiply by:	
2.		OBL species	x 1 =	
3		FACW species	x 2 =	
5.		FAC species	x 3 =	
Hart Contract (District	= Total Cover		x 4 =	
Herb Stratum (Plot size:)		UPL species	x 5 =	(D)
2.		Column Totals Prevalence	(A) Index =B/A =	(D)
3.				
4 5.		Hydrophytic Vegeta 1-Rapid Test for	Hydrophytic Vegetation	
6.		2-Dominance Te		
7.		3-Prevalence Inc	lex is < or =3.01	
8. 9.			Adaptations ¹ (Provide super on a separate sheet)	oporting
10.			rophytic Vegetation ¹ (Exp	lain)
Woody Vine Stratum (Plot size:)	= Total Cover	¹ Indicators of hydric	soil and wetland hydrolo less disturbed or problen	gy
1		Hydrophytic	· .	
2	= Total Cover	Vegetation Present?	<u>No</u>	
Remarks: (Include photo numbers here or on a separate sheet.)				

Profile Desc	ription: (Describe to	the depth n	eeded to documen	t the indi	cator or	confirm	the absence	of indicators.)	
Depth	Matrix		Redox	<u>Features</u>					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
	centration, D=Depletion	on, RM=Redu	iced Matrix, MS=Mas	ked Sand	d Grains.			ation: PL=Pore Lini	~
Hydric Soil In							Indicators fo	or Problematic Hyd	ric Soils [*] :
Histosol (,		Sandy Gleyed I		1)		Coast	Prairie Redox (A16)
	pedon (A2)		Sandy Redox (Dark S	Surface (S7)	
Black Hist			Stripped Matrix				☐ Iron-M	langanese Masses	(F12)
	Sulfide (A4)		Loamy Mucky N				☐ Very S	Shallow Dark Surfac	e (TF12)
=	Layers (A5)		Loamy Gleyed	•	2)		Other	(Explain in Remarks	s)
2 cm Muc	` '		Depleted Matrix						
= :	Below Dark Surface	(A11)	Redox Dark Su	` '			2		
	k Surface (A12)		Depleted Dark	,	F7)			rs of hydrophytic ve	
	ucky Mineral (S1)		Redox Depress	ions (F8)				ydrology must be pr disturbed or problem	
5 cm Muc	cky Peat or Peat (S3)						`	alotarboa or problem	iano.
Restrictive La	yer (if observed):								
Type:			<u> </u>			н	ydric Soil Pr	esent? No	
							yuric Son Fr		
Depth (inches	s):		_			''	yunc 3011 Fi		
Depth (inches	s):		=				yunc 3011 Fi		
	s):		-				yunc 30ii Fi		
	,		_			"	yune son Fi	- 110 - 110	
Remarks: HYDROLOG Wetland Hydr	SY ology Indicators:		_				Seco	ondary Indicators	iro d\
Remarks: HYDROLOG Wetland Hydr Primary Indica	SY ology Indicators: tors (minimum of one	e is required: (Seco (min	ondary Indicators imum of two is requ	<u> </u>
Remarks: HYDROLOG Wetland Hydr Primary Indica Surface Wa	SY rology Indicators: tors (minimum of one ater (A1)	e is required: o	☐ Water-Stained		(B9)		Seco (min	ondary Indicators imum of two is requ Surface Soil Cracks	(B6)
Remarks: HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water	ology Indicators: tors (minimum of one ater (A1)	e is required: (☐ Water-Stained	a (B13)	,		Seco (min	ondary Indicators imum of two is requ	(B6)
Remarks: HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water Saturation (ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3)	e is required: o	☐ Water-Stained ☐ Aquatic Faund ☐ True Aquatic	a (B13) Plants (B	14)		Seco (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water	(B6) B10) Fable (C2)
HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water Saturation (Water Mark	ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (S (B1)	e is required: o	☐ Water-Stained	a (B13) Plants (B	14)		Seco (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns ((B6) B10) Fable (C2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Wa High Water Saturation (Water Mark	ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A5) Deposits (B2)	e is required: (☐ Water-Stained ☐ Aquatic Faund ☐ True Aquatic ☐ Hydrogen Sul ☐ Oxidized Rhiz	a (B13) Plants (B fide Odor ospheres	14) (C1) on Living		Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ⁻ Crayfish Burrows (C Saturation Visible o	(B6) B10) Fable (C2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos	ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A5 (B1) Deposits (B2) its (B3)	e is required: o	Water-Stained Aquatic Faund True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B fide Odor ospheres Reduced I	14) (C1) on Living	g Roots (0	Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ⁻ Crayfish Burrows (C Saturation Visible of Imagery (C9)	(B6) B10) Fable (C2) 8)
HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos	Fology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (xs (B1) Deposits (B2) its (B3) or Crust (B4)	e is required: o	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B fide Odor ospheres Reduced I eduction	14) (C1) on Living ron (C4) in Tilled S	g Roots (0	Second (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ⁻ Crayfish Burrows (C Saturation Visible of Imagery (C9) Stunted or Stressed	(B6) B10) Fable (C2) 8) n Aerial
Remarks: HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi	rology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	·	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7	14) (C1) s on Living ron (C4) in Tilled S	g Roots (0	Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ¹ Crayfish Burrows (C Saturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Positio	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi	ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (S (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) Visible on Aerial Image	gery (B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7	14) (C1) s on Living ron (C4) in Tilled S	g Roots (0	Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ⁻ Crayfish Burrows (C Saturation Visible of Imagery (C9) Stunted or Stressed	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
HYDROLOG Wetland Hydr Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi	rology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	gery (B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9)	g Roots (0	Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ¹ Crayfish Burrows (C Saturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Positio	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation (Sparsely Ve	ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A5) (A5) (A6) (A6) (A6) (A7) (A7) (A7) (A8) (A8) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	gery (B7) urface (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9)	g Roots (0	Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ¹ Crayfish Burrows (C Saturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Positio	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
Remarks: HYDROLOG Wetland Hydr. Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation (Sparsely Ve Field Observa Surface Water	Fology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	gery (B7) urface (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9)	g Roots (0	Secci (min	ondary Indicators imum of two is requ Surface Soil Cracks Drainage Patterns (Dry-Season Water ¹ Crayfish Burrows (C Saturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Positio	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o Iron Deposi Inundation (Sparsely Veter Mark Surface Water Water Table P	ology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (S (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) Visible on Aerial Image agetated Concave Substitutions: Present? No	gery (B7) ırface (B8) _ Depth (inch _ Depth (inch	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9)	g Roots (0	Secci (min	ondary Indicators imum of two is requivable. Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (Caturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Position FAC-Neutral Test (E	(B6) B10) Fable (C2) B8) A Aerial Plants (D1) CD2)
Remarks: HYDROLOG Wetland Hydr. Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Inundation (Sparsely Ve Field Observa Surface Water	rology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A7) (A7) (A7) (A8) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	gery (B7) urface (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9)	g Roots (0	Secci (min	ondary Indicators imum of two is requivable. Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (Caturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Position FAC-Neutral Test (E	(B6) B10) Fable (C2) B8) A Aerial Plants (D1) CD2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Veter Field Observator (Surface Water (Water Table P Saturation Prediction Prediction (Includes capill	rology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A7) (A7) (A7) (A8) (A8) (A8) (A9) (A9) (A9) (A9) (A9) (A9) (A9) (A9	gery (B7) urface (B8) _ Depth (inch _ Depth (inch _ Depth (inch	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9) arks)	g Roots (C6)	Secci (min	ondary Indicators imum of two is requivable. Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (Caturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Position FAC-Neutral Test (E	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Veter Field Observator (Surface Water (Water Table P Saturation Prediction Prediction (Includes capill	cology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	gery (B7) urface (B8) _ Depth (inch _ Depth (inch _ Depth (inch	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9) arks)	g Roots (C6)	Secci (min	ondary Indicators imum of two is requivable. Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (Caturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Position FAC-Neutral Test (E	(B6) B10) Fable (C2) 88) In Aerial Plants (D1) In (D2)
Remarks: HYDROLOG Wetland Hydr Primary Indica: Surface Water Saturation (Water Mark Sediment D Drift Deposi Inundation (Sparsely Veter Field Observator (Surface Water (Water Table P Saturation Prediction Prediction (Includes capill	cology Indicators: tors (minimum of one ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A6) (A6) (A6) (A6) (A6) (A6) (A6) (A6	gery (B7) urface (B8) _ Depth (inch _ Depth (inch _ Depth (inch	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B fide Odor ospheres Reduced I eduction rface (C7 I Data (D	14) (C1) con Living ron (C4) in Tilled S () 9) arks)	g Roots (C6)	Secci (min	ondary Indicators imum of two is requivable. Surface Soil Cracks Drainage Patterns (Dry-Season Water Crayfish Burrows (Caturation Visible of Imagery (C9) Stunted or Stressed Geomorphic Position FAC-Neutral Test (E	(B6) B10) Fable (C2) B8) A Aerial Plants (D1) CD2)

Sampling Date 10/21/2014

WETLAND DETERMINATION DATA FORM - Midwest Region

City/County: Will

Applicant/Owner: IDOT District 1				State: IL San	npling Point 8A	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 14,	Г36N, R9E	
Landform (hillslope, terrace, etc.): Depression on flood			ocal relief (c	concave, convex, none)	: Concave	
Slope (%): < 1 Lat: 41.60865		Long: -88.1	6885		Datum: NAD 83	
Soil Map Unit Name: Will silty clay loam, 0-2 % slopes				NWI classificat	tion: PEMC	
Are climatic/hydrologic conditions on the site typical for	this time of ye	ear? Ye	es (If i	no explain in Remarks.)	
Are Vegetation No , Soil No , or Hydrology No	-			Are "Normal Circums	tances" present?	Yes
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain an	· -	
SUMMARY OF FINDINGS - Attach site map	_		noint lo			,
Hydrophytic Vegetation Present? Yes	, ccg		, point io	Janono, manocon	5, p 5. tat 15	
Hydric Soil Present? Yes		lo the	Sampled A	N		
Wetland Hydrology Present? Yes			n a Wetland		_	
Remarks: Community type is wet shrubland.						
VEGETATION - Use scientific names of plant						
Tree Stratum (Diet size: 20 4 and live	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo		
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>) 1. <i>Acer negundo</i>	4	No	FAC	 Number of Dominant That are OBL, FACV 		(A)
2			1710	Total Number of Don	· —	(^)
3				Species Across All S	Strata:	(B)
45.				Percent of Dominant		
	4	= Total Co	ver	That are OBL, FACV	-	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	60	Voo	EA C\\\	Prevalence Index wo		
1. Salix interior 2.	60	Yes	FACW	Total % Cover of: OBL species	<u>Multiply b</u> x 1 =	-
3.				FACW species	x 2 =	
4				FAC species	x 3 =	
5		Tatal Car		FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)	60	_ = Total Co	vei	UPL species	x 5 =	
1. Phalaris arundinacea	90	Yes	FACW	Column Totals	(A)	(B)
Cirsium arvense Solidago canadensis	2 1	No No	FACU FACU	Prevalence	Index =B/A =	
Solidago cariaderisis Solidago gigantea	1	No	FACW	Hydrophytic Vegetat	tion Indicators	
5.				✓ 1-Rapid Test for H		ation
6.				2-Dominance Tes		
7. 8.				3-Prevalence Inde	ex is < or =3.01 Adaptations1 (Provid	de supporting
9.					or on a separate sh	
10				Problematic Hydro	ophytic Vegetation	¹ (Explain)
Woody Vine Stratum (Plot size: 30 ft radius)	94	= Total Co	ver	¹Indicators of hydric s		
1				must be present, unl	ess disturbed or pr	obiematic.
2.				Hydrophytic Vegetation		
	0	= Total Co	ver	Present?	Yes	
Remarks: (Include photo numbers here or on a separa	ite sheet.)			-		
	•					
	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·

Project/Site: I-55 (FAI 55)

SOIL Sampling Point: 88 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/3 0-24+ 98 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 1-55 (FAI 55)		City/Count	y: <u>vv</u> III	samp	bling Date Tu	/21/2014
Applicant/Owner: IDOT District 1				State:_IL Samp	oling Point 8B	}
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 14, T3	36N, R9E	
Landform (hillslope, terrace, etc.): Outwash	olain		ocal relief (d	concave, convex, none):	None	
Slope (%): 0 Lat: 41.60863		Long: -88.1	16913		Datum: NAD	83
Soil Map Unit Name: Will silty clay loam, 0-2	% slopes			NWI classification	on: U	
Are climatic/hydrologic conditions on the site		ear? Ye	es (If	no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydro				Are "Normal Circumsta	inces" nresen	t? Ves
Are Vegetation No , Soil No , or Hydro	•• —— •	•				<u> </u>
				(If needed, explain any		,
SUMMARY OF FINDINGS - Attach	site map showing	sampling	g point lo	cations, transects,	, important	t features, et
Hydrophytic Vegetation Present? No.)					
Hydric Soil Present? No.	<u>) </u>		Sampled A			
Wetland Hydrology Present? No)	withi	n a Wetland	d? <u>No</u>		
Remarks: Community type is non-native g	rassland.	L				
, ,,						
VEGETATION Has a discommend	- (- 1 (-					
VEGETATION - Use scientific names	•		1 12 4			
Tron Ctratum (Plot sizes 20 th and inch	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor		
Tree Stratum (Plot size: 30 ft radius 1.		•		 Number of Dominant S That are OBL, FACW, 	•	0 (A)
1 2				Total Number of Domi	-	(A)
3.				Species Across All Str	rata:	(B)
4.				Percent of Dominant S		, ,
5	0	= Total Co	ver	That are OBL, FACW,	or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft ra	-			Prevalence Index wor	ksheet:	
Salix interior	3	No	FACW	Total % Cover of:	Multip	oly by:
2. Rhamnus cathartica	1	No	FAC	OBL species	x 1 =	
3. 4.				FACW species	x 2 =	
5.				FAC species	x 3 =	
	4	= Total Co	ver	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)				UPL species	x 5 =	
1. Dipsacus laciniatus	60	Yes	UPL	Column Totals	(A)	(B)
2. Bromus inermis	25 15	Yes No	FACU FAC	Prevalence In	idex =B/A =	
3. Poa pratensis4. Solidago canadensis	10	No	FACU	Hydrophytic Vegetation	on Indicators	ì
5. Daucus carota	5	No	UPL	1-Rapid Test for Hy	drophytic Ve	getation
6.				2-Dominance Test	is >50%	
1				3-Prevalence Index		
8.				4-Morphological Ad		
9				data in Remarks or Problematic Hydror	•	*
10		T-1-1 O-			,	, , ,
W 1 V 0 (D) (1 00 ()	<u>ius</u>) <u>115</u>	_ = Total Co	ver	¹ Indicators of hydric so must be present, unles		
Woody Vine Stratum (Plot size: 30 ft rad				•		
1				Hydrophytic		
1		= Total Co		Hydrophytic Vegetation	No	

SOIL Sampling Point: 8B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/1 0-11 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: 1-55 (FAI 55)			_ City/County	/:	Sam	pling Date 10	0/21/2014
Applicant/Owner: IDOT District 1					State: IL Sam	pling Point 9/	A
Investigator(s): Tsai, Marcum, and I	Handel		Sect	tion, Towns	hip, Range: Sec. 12, T	36N, R9E	
Landform (hillslope, terrace, etc.): \	Jpland		Lo	ocal relief (d	concave, convex, none):	None	
Slope (%): 0 Lat: 41.62	005		Long: -88.1	6256	[Datum: NAD	83
Soil Map Unit Name: Will silty clay le			<u> </u>		NWI classification	on: PEMAf	
Are climatic/hydrologic conditions or	-	his time of year	ar? Ye	s (If	no explain in Remarks.)		
Are Vegetation No , Soil No ,		-			Are "Normal Circumsta		nt? Yes
Are Vegetation No , Soil No ,					(If needed, explain any	•	
- ——		_		noint lo	•		,
SUMMARY OF FINDINGS -		snowing	sampiing	point io	cations, transects	, importan	it reatures, e
Hydrophytic Vegetation Present?	Yes						
Hydric Soil Present?	No			Sampled A			
Wetland Hydrology Present?	No		Witiiii	i a welland	<u> </u>		
Remarks: Community type is non	-native grassland.						
VEGETATION - Use scientific	names of plant	s					
TEGET/ATTOTA COO COTOTALINO	Tiamoo or plane	Absolute	Dominant	Indicator	Dominance Test wor	rkehoot:	
Tree Stratum (Plot size: 30 ft ra	adius !	% Cover	Species?	Status	Number of Dominant		
1					That are OBL, FACW		1 (A)
2.					Total Number of Dom Species Across All St		1 (5)
3. 4.					Percent of Dominant	_	(B)
5.					That are OBL, FACW		(A/B
Sapling/Shrub Stratum (Plot siz	ze:15 ft radius)	0	= Total Cov	/er	Prevalence Index wo	rksheet:	(A/D
1					Total % Cover of:		iply by:
2.					OBL species	x 1 =	
3. 4.					FACW species	x 2 =	
5.					FAC species	x 3 =	
		0	= Total Cov	/er	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft rad	ius)				UPL species	x 5 =	
1. Poa pratensis		100	Yes	FAC	Column Totals	(A)	(B)
2. 3.					Prevalence Ir	ndex =B/A =	
4.					Hydrophytic Vegetati		
5					1-Rapid Test for H		egetation
6. 7.					✓ 2-Dominance Test ✓ 3-Prevalence Index		1
8.					4-Morphological Ac		
9					data in Remarks o	•	,
10					_	phytic Vegeta	ation¹ (Explain)
	:30 ft radius)		= Total Cov	/er	¹ Indicators of hydric semust be present, unle		
1. 2.					Hydrophytic		
		0	= Total Cov	/er	Vegetation Present?	Yes	
Remarks: (Include photo numbers	horo or						
Nemarks. (include prioto numbers	nere or on a separa	ie sneet.)					

SOIL Sampling Point: 94 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/2 0-12+ 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		_City/Count	y: Will		Sampling Date 10/22/2014	1
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 10A	-
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec.	11, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression				concave, convex, n		
Slope (%): < 1 Lat: 41.61444		Long: -88.1	6430		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Orthents, loamy, ur	ndulating;	revised to A	quent	NWI classi	fication: L1UBHx	
Are climatic/hydrologic conditions on the site typical for this t				 no explain in Rema	urks.)	
Are Vegetation No , Soil No , or Hydrology No sig		-		•	umstances" present? Y	'es
Are Vegetation No , Soil No , or Hydrology No na	-				n any answers in Remarks.	
				, ,	•	,
SUMMARY OF FINDINGS - Attach site map sh	lowing	sampling	point io	cations, transe	ects, important featu	res, etc
Hydrophytic Vegetation Present? Yes						
Hydric Soil Present? Yes			Sampled A		•	
Wetland Hydrology Present? Yes		withii	n a Wetland	d? <u>Yes</u>		
Remarks: Community type is marsh.						
VEGETATION - Use scientific names of plants.						
	Absolute	Dominant	Indicator	Dominance Tes	t worksheet:	
(1 lot 3/26. 30 it radius	% Cover	Species?	Status	Number of Domi		
1. 2.				That are OBL, F		(A)
3.				Total Number of Species Across		(B)
4.				Percent of Domii	nant Species	_ (b)
5	0	= Total Co	vor	That are OBL, F	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)		- Total Co	vei	Prevalence Inde	x worksheet:	
1				Total % Cove	r of: Multiply by:	_
2.				OBL species	x 1 =	=
3. 4.				FACW species	x 2 =	=
5.				FAC species	x 3 =	_
Horb Stratum (Diet einer Ett warding)	0	= Total Co	ver	FACU species UPL species	x 4 =	_
Herb Stratum (Plot size: 5 ft radius) 1. Phalaris arundinacea	40	Yes	FACW	Column Totals	x 5 =	(B)
Triadis aranamacea Typha angustifolia	30	Yes	OBL		(A)(A)	_(D)
3. Scirpus atrovirens	5	No	OBL			=
Juncus torreyi Eupatorium perfoliatum	3 1	No No	FACW OBL		etation Indicators for Hydrophytic Vegetation	
6.		110	OBL	2-Dominance		
7.				3-Prevalence	Index is < or =3.01	
8					cal Adaptations ¹ (Provide su	
9. 10.					rks or on a separate sheet) lydrophytic Vegetation¹ (Ex	
		= Total Co	vor		dric soil and wetland hydrole	. ,
Woody Vine Stratum (Plot size: 30 ft radius)		= Total Co	vei		unless disturbed or proble	
1.				Hydrophytic		
2	0	= Total Co	ver	Vegetation Present?	Yes	
		_ 10tal 00	· • •	FIESEIII!		
Remarks: (Include photo numbers here or on a separate si	neet.)					

SOIL Sampling Point: 10A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Loc2 Texture Remarks Type 5Y 3/1 0-4 100 MK 100 **GRMKSIL** 4-7 5Y 4/1 30% gravel Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) ✓ Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) ✓ 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): filled material/gravel Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: This soil sample was not taken as normally would due to disturbance and compaction of filled material/gravel. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ✓ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): 0 Saturation Present? Wetland Hydrology Present? Yes Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		_ City/Count	: Will	Sampling Date	10/22/2014		
Applicant/Owner: IDOT District 1	State: IL Sampling Point 10B			t 10B			
Investigator(s): Tsai, Marcum, and Handel	Section, Township, Range: Sec. 11, T36N, R9E						
Landform (hillslope, terrace, etc.): Outwash plain							
Slope (%): 0 Lat: 41.61470	Long: <u>-88.16397</u> Datum: <u>NAD 83</u>				AD 83		
Soil Map Unit Name: Orthents, loamy, undulating				NWI classification: U			
Are climatic/hydrologic conditions on the site typical for the	nis time of ye	ar? Ye	s (If	no explain in Remarks.)			
Are Vegetation No, Soil No, or Hydrology No	_significantly	/ disturbed?		Are "Normal Circumstances" pre	sent? Yes		
Are Vegetation No, Soil No, or Hydrology No	_naturally pr	oblematic?		(If needed, explain any answers	in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing	sampling	point lo	cations, transects, import	ant features, etc		
Hydrophytic Vegetation Present? No							
Hydric Soil Present? No		Is the	Sampled A	Area			
Wetland Hydrology Present? No			a Wetland				
Remarks: Community type is upland forest.							
VEGETATION - Use scientific names of plants	S.						
	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Species	4		
Populus deltoides Morus alba	50 10	Yes No	FAC FAC	That are OBL, FACW, or FAC: Total Number of Dominant	1 (A)		
3. Juglans nigra	5	No	FACU	Species Across All Strata:	3 (B)		
4				Percent of Dominant Species	()		
5	65	= Total Co	/er	That are OBL, FACW, or FAC:	(A/B)		
Sapling/Shrub Stratum (Plot size: 15 ft radius)		-		Prevalence Index worksheet:			
Lonicera maackii Rhamnus cathartica	75 5	Yes No	UPL FAC		<u>fultiply by:</u>		
3.			1710		- <u></u> !=		
4				' <u></u>	 ! =		
5	80	– Total Co	·or		· =		
Herb Stratum (Plot size: 5 ft radius)	00	= Total Co	/ei		i =		
1. Lonicera maackii	65	Yes	UPL	Column Totals (A)	(B)		
Geum canadense Poa pratensis	1 1	No No	FAC FAC	Prevalence Index =B/A	=		
4.		NO	170	Hydrophytic Vegetation Indica			
J				1-Rapid Test for Hydrophytic	Vegetation		
6.				2-Dominance Test is >50% 3-Prevalence Index is < or =:	2.01		
7. 8.				3-Prevalence Index is < or = 4-Morphological Adaptations			
9.				data in Remarks or on a sep	arate sheet)		
10				Problematic Hydrophytic Veg	getation¹ (Explain)		
Woody Vine Stratum (Plot size: 30 ft radius)	67	= Total Co	/er	¹ Indicators of hydric soil and we must be present, unless disturb			
Vitis riparia Z.	1	No	FACW	Hydrophytic	,		
	1	= Total Co	/er	Vegetation No Present?			
Remarks: (Include photo numbers here or on a separat	e sheet.)						

SOIL Sampling Point: 10B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/2 0-7 100 SIL 10% gravel Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): filled material/gravel Type: **Hydric Soil Present?** No Depth (inches): Remarks: This soil sample was not taken as deeply as normaly would, there was no hydrophytic vegetaion and no hydrology. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/County: Will		Sampling Date 10/22/2014		
Applicant/Owner: IDOT District 1		State: IL	Sampling Point 11A		
Investigator(s): Tsai, Marcum, and Handel	Section, Township, Range: Sec. 11, T36N, R9E				
Landform (hillslope, terrace, etc.): Depression		oncave, convex, no	one): Concave		
Slope (%): < 1 Lat: 41.61929	_ong:88.16409		Datum: NAD 83		
Soil Map Unit Name: See Remarks		NWI classif	fication: U		
Are climatic/hydrologic conditions on the site typical for this time of year		o explain in Rema			
Are Vegetation No, Soil No, or Hydrology No significantly	disturbed?	Are "Normal Circu	mstances" present? Yes	es	
Are Vegetation No , Soil No , or Hydrology No naturally pro	blematic?	(If needed, explain	n any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing s	sampling point loc	ations, transe	ects, important featur	es, etc	
Hydrophytic Vegetation Present? Yes					
Hydric Soil Present? Yes	Is the Sampled A	rea			
Wetland Hydrology Present? Yes	within a Wetland				
Remarks: Community type is wet meadow.					
NRCS mapped as Troxel silt loam, 0-2 % slopes; revised to Peotone	silty clay loam, 0-2 % s	lopes			
VEGETATION - Use scientific names of plants.					
	Dominant Indicator	Daminanaa Taa	t warkshoot.		
Tree Stratum (Plot size: 30 ft radius % Cover	Species? Status	Dominance Test Number of Domir			
1		That are OBL, FA		(A)	
2. 3.		Total Number of Species Across A	All Strata:	(D)	
3. 4.		Percent of Domir		_ (B)	
5	= Total Cover	That are OBL, FA		_ (A/B)	
Sapling/Shrub Stratum (Plot size:15 ft radius)	= Total Cover	Prevalence Index	worksheet:		
1		Total % Cove			
3.		OBL species	x 1 =	.	
4.		FACW species	x 2 =	=	
5		FAC species FACU species	x 3 = x 4 =		
Herb Stratum (Plot size: 5 ft radius)	= Total Cover	UPL species	x 5 =	-	
1. Phalaris arundinacea 100	Yes FACW	Column Totals	(A)	(B)	
2.		Prevalen	ice Index =B/A =	: ` ′	
3. 4.		Hydrophytic Veg	etation Indicators	*	
5.		✓ 1-Rapid Test f	or Hydrophytic Vegetation		
6.		2-Dominance			
7. 8.		1 —	Index is < or =3.01		
9.			al Adaptations ¹ (Provide sulks or on a separate sheet)	pporting	
10.		Problematic H	ydrophytic Vegetation1 (Exp	olain)	
Woody Vine Stratum (Plot size: 30 ft radius)	= Total Cover		ric soil and wetland hydrolo unless disturbed or problen		
1		Hydrophytic			
	= Total Cover	Vegetation Present?	Yes		
Remarks: (Include photo numbers here or on a separate sheet.)		1			
, , , , , , , , , , , , , , , , , , , ,					

SOIL Sampling Point: 11A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/4 0-12+ 90 10 SICL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/Count	y:_VVill		Sampling Date 10/22/201	4
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 11B	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec.	11, T36N, R9E	
Landform (hillslope, terrace, etc.): Outwash plain				concave, convex, n		
Slope (%): 0 Lat: 41.61918		Long: <u>-88</u> .1	6411		Datum: NAD 83	
Soil Map Unit Name: Troxel silt loam, 0-2 % slopes		<u> </u>		NWI class		·
Are climatic/hydrologic conditions on the site typical for the				no explain in Rema	arks.)	
Are Vegetation No , Soil No , or Hydrology No				Are "Normal Circ	umstances" present?	⁄es
Are Vegetation No , Soil No , or Hydrology No					n any answers in Remarks	
SUMMARY OF FINDINGS - Attach site map				cations trans	ects important featu	res etc
Hydrophytic Vegetation Present? No	onowing .		, point io			
Hydric Soil Present? No						
·			Sampled <i>I</i> n a Wetland)	
Wetland Hydrology Present? No No						
Remarks: Community type is cropland.						
VEGETATION - Use scientific names of plants	3.					
	Absolute	Dominant	Indicator	Dominance Tes	t worksheet:	
<u>Tree Stratum</u> (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Domi		
1.				That are OBL, F	· · · · · · · · · · · · · · · · · · ·	(A)
2. 3.				Total Number of Species Across		(5)
4.				Percent of Domi		(B)
5.		T		That are OBL, F		(A/B)
Sapling/Shrub Stratum (Plot size:15 ft radius)	0	= Total Co	ver	Prevalence Inde	x worksheet:	(' /
1.				Total % Cove	er of: Multiply by:	_
2				OBL species	x 1 =	<u> </u>
3. 4.				FACW species	x 2 =	_
5.				FAC species	x 3 =	<u> </u>
	0	= Total Co	ver	FACU species	x 4 =	_
Herb Stratum (Plot size: 5 ft radius)		.,		UPL species	x 5 =	_
Glycine max Stellaria media	35 30	Yes Yes	UPL FACU	Column Totals	(A)	_(B)
3. Portulaca oleracea	2	No	FACU	Prevale	nce Index =B/A =	_
4. Rumex crispus	2	No	FAC		etation Indicators	
5. Taraxacum officinale	2	No	FACU		for Hydrophytic Vegetation	
6. Chenopodium album	1	No	FACU	2-Dominance	I est is >50% Index is < or =3.01	
7					rindex is < or =3.01 cal Adaptations1 (Provide s	upporting
9.					rks or on a separate sheet	
10.					Hydrophytic Vegetation¹ (Ex	
Woody Vine Stratum (Plot size: 30 ft radius)	72	= Total Co	ver		dric soil and wetland hydrol, unless disturbed or proble	
1.				Hydrophytic	, umess disturbed of proble	mauc.
2				Vegetation	No	
	0	= Total Co	ver	Present?	No	
Remarks: (Include photo numbers here or on a separat	e sheet.)					

SOIL Sampling Point: 11B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 0-12+ 99 7.5YR 4/4 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/County	: Will	Sampling Date	10/22/2014	
Applicant/Owner: IDOT District 1		State: IL Sampling Point 12A				
Investigator(s): Tsai, Marcum, and Handel		Section, Township, Range: Sec. 2, T36N, R9E				
Landform (hillslope, terrace, etc.): Depression on floodpl						
Slope (%): < 1 Lat: 41.62387						
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slope		<u> </u>		NWI classification: PFO10		
Are climatic/hydrologic conditions on the site typical for th		ar? Ye	s (If	no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No	-	-	<u> </u>	Are "Normal Circumstances" pre	sent? Ves	
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answers	<u>, </u>	
SUMMARY OF FINDINGS - Attach site map	_		point lo			
Hydrophytic Vegetation Present? Yes	<u>-</u>		P			
Hydric Soil Present? Yes						
•			Sampled A			
Wetland Hydrology Present? Yes						
Remarks: Community type is wet floodplain forest. VEGETATION - Use scientific names of plants						
•	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>	% Cover	Species?	Status	Number of Dominant Species		
1. Crataegus mollis	40	Yes	FAC	That are OBL, FACW, or FAC:	6 (A)	
Acer saccharinum Celtis occidentalis	20 1	Yes No	FACW FAC	Total Number of Dominant Species Across All Strata:	6 (D)	
4.				Percent of Dominant Species	(B)	
5		Tatal Car		That are OBL, FACW, or FAC:	100% (A/B)	
Sapling/Shrub Stratum (Plot size:15 ft radius)	61	= Total Cov	/er	Prevalence Index worksheet:	. ,	
1. Lonicera maackii	2	No	UPL		lultiply by:	
2. 3.				<u> </u>	=	
3. 4.				FACW species x 2		
5.					=	
Harly Charters (Diet sizes 5 (smallers)	2	= Total Co	/er		=	
Herb Stratum (Plot size: 5 ft radius) 1. Cryptotaenia canadensis	20	Yes	FAC	UPL species x 5 Column Totals (A)		
Phalaris arundinacea	15	Yes	FACW	Column Totals (A) Prevalence Index =B/A		
3. Pilea pumila	15	Yes	FACW			
Polygonum punctatum Aster simplex	15 5	Yes No	OBL FAC	Hydrophytic Vegetation Indicat 1-Rapid Test for Hydrophytic		
6. Bidens frondosa	2	No	FACW	✓ 2-Dominance Test is >50%	r ogetatie	
7. Geum canadense	1	No	FAC	3-Prevalence Index is < or =3	3.01	
8. 9.				4-Morphological Adaptations data in Remarks or on a sepa		
9. 10.				Problematic Hydrophytic Veg	,	
	73	= Total Cov	/er	¹Indicators of hydric soil and we		
Woody Vine Stratum (Plot size: 30 ft radius)		-		must be present, unless disturbe		
1. Vitis riparia 2.	1	No	FACW	Hydrophytic		
2.	1	= Total Cov	/er	Vegetation Yes Present?		
Remarks: (Include photo numbers here or on a separate	sheet.)					

SOIL Sampling Point: 12A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 0-14 10YR 3/1 98 10YR 4/3 2 SIL 92 10YR 4/4 SICL 14-17+ 10YR 4/1 8 С Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) ✓ Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ✓ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ✓ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	_ City/County	y: Will	Sampling Date	10/22/2014
State: IL Sampling Point 12B				12B
Section, Township, Range: Sec. 2, T36N, R9E				
Local relief (concave, convex, none): None				
	Long:88.1	7148	Datum: N/	AD 83
es				
is time of ye	ar? Ye	s (If	no explain in Remarks.)	
_significantly	/ disturbed?		Are "Normal Circumstances" pre	sent? Yes
_naturally pr	oblematic?		(If needed, explain any answers i	n Remarks.)
showing	sampling	point lo	cations, transects, import	ant features, etc
	Is the	Sampled A	Area	
% Cover	Species?	Indicator Status	Dominance Test worksheet:	
45	Yes	FACW	That are OBL, FACW, or FAC:	2 (A)
10	No	FAC	Total Number of Dominant	
			╡ '	3 (B)
			That are OBL, FACW, or FAC:	67% (A/B)
55	= Total Co	ver	Prevalence Index worksheet:	(A/B)
50	Yes	UPL		lultiply by:
10	No	FAC	OBL species x 1	=
			' <u>— — </u>	
				=
60	= Total Co	ver		=
10	Vas	FΔC	<u> </u>	=(B)
2	No	FACW	``	``
1	No	FAC		
	No	FACU		
			✓ 2-Dominance Test is >50%	o .
			4-Morphological Adaptations	(Provide supporting
				,
	= Total Cov	ver		
			Hydrophytic	<u> </u>
	= Total Cov	/er	Vegetation Vos	
	1010100		riesein!	
e sneet.)				
	significantly naturally preserved with the significantly naturally preserved with the significantly naturally preserved with the significant significa	Long: -88.1 loses his time of year? Yes significantly disturbed? naturally problematic? showing sampling ls the within % Cover Species? 45 Yes 10 No 55 = Total Cov 50 Yes 10 No 60 = Total Cov 10 Yes 2 No 1 Total Cov 10 Yes 2 Total Cov 11 No 12 Total Cov 13 Total Cov 14 Total Cov 15 Total Cov 16 Total Cov 17 Total Cov 18 Total Cov 19 Total Cov 10 Tes 20 Total Cov 10 Tes 21 Total Cov 11 Total Cov 12 Total Cov 13 Total Cov 14 Total Cov 15 Total Cov 16 Total Cov 17 Total Cov 18 Total Cov 19 Total Cov 10 Total Cov	Local relief (complete set of the	Section, Township, Range: Sec. 2, T36N, R9E Local relief (concave, convex, none): None Long: _88.17148

SOIL Sampling Point: 12B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/1 0-8+ 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/Count	y: Will	Sampling D	ate 10/22/2014	
Applicant/Owner: IDOT District 1	State: IL Sampling Point 13A					
Investigator(s): Tsai, Marcum, and Handel	Section, Township, Range: Sec. 11, T36N, R9E					
	Local relief (concave, convex, none): None					
					NAD 83	
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slop		NWI classification: PE				
Are climatic/hydrologic conditions on the site typical for t		ar? Ye	s (If	no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No				Are "Normal Circumstances"	nrecent? Vec	
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answe	•	
SUMMARY OF FINDINGS - Attach site map	_		noint lo			s etc
Hydrophytic Vegetation Present? No	Jilowing	Jampinig	ponit io	oations, transcots, imp	ortant reatures	o, o.c
Hydric Soil Present? Yes			Sampled A			
Wetland Hydrology Present? NoNo		W 16111	ra wedan			
Remarks: Community type is mesic floodplain forest. VEGETATION - Use scientific names of plants	S.					
·	Absolute	Dominant	Indicator	Dominance Test workshee	t:	
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>)	% Cover	Species?	Status	Number of Dominant Specie		
Tilia americana Quercus macrocarpa	40 25	Yes	FACU	That are OBL, FACW, or FA	C: 2 ((A)
Quercus macrocarpa Populus deltoides	10	Yes No	FAC FAC	Total Number of Dominant Species Across All Strata:	4 ,	(D)
4.				Percent of Dominant Species	,	(B)
5	75	Total Co		That are OBL, FACW, or FA	C· 50%	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	75	= Total Co	vei	Prevalence Index workshee	et:	<u> </u>
1. Lonicera maackii	25	Yes	UPL	Total % Cover of:	Multiply by:	
2. Tilia americana	2	No	FACU	OBL species	x 1 =	
3. 4.					x 2 =	
45.					x 3 =	
	27	= Total Co	ver		x 4 =	
Herb Stratum (Plot size: 5 ft radius)		_		UPL species	x 5 =	
Cryptotaenia canadensis Aster lateriflorus	5 1	Yes No	FAC FACW		(A)(B	3)
Polygonum punctatum	1	No	OBL	Prevalence Index =E	3/A =	
4. Sanicula gregaria	1	No	FAC	Hydrophytic Vegetation Ind		
5. Viola sororia	1	No	FACW	1-Rapid Test for Hydroph	-	
6.				2-Dominance Test is >50 th 3-Prevalence Index is < 0		
7. 8.				3-Prevalence index is < 0 4-Morphological Adaptatio		ortina
9.				data in Remarks or on a s	separate sheet)	orting
10				Problematic Hydrophytic '	Vegetation¹ (Explai	in)
Woody Vine Stratum (Plot size: 30 ft radius)	9	= Total Co	ver .	¹ Indicators of hydric soil and must be present, unless dist		
1.				Hydrophytic		
2	0	= Total Co	/er	Vegetation No		
		_ 10ta1 00	v C1	Present?		
Remarks: (Include photo numbers here or on a separar	te sheet.)					

SOIL Sampling Point: 13A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/4 0-12+ 98 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/County: Will Sampling Date 10/22/20				
Applicant/Owner: IDOT District 1		State: IL Sampling Point 14A				
Investigator(s): Tsai, Marcum, and Handel		Section, Township, Range: Sec. 2, T36N, R9E				
Landform (hillslope, terrace, etc.): Depression		Local relief (concave, convex, none): Concave				
Slope (%): < 1 Lat: 41.63734		Long: -88.1	7111	Datum: NA	\D 83	
Soil Map Unit Name: NRCS mapped as Orthents, loamy,	undulating;	revised to A	quent	NWI classification: L1UBH	x	
Are climatic/hydrologic conditions on the site typical for th	is time of ye	ar? Ye	s (If	no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No	-	-		Are "Normal Circumstances" pres	sent? Yes	
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answers in		
SUMMARY OF FINDINGS - Attach site map			point lo			
Hydrophytic Vegetation Present? Yes			-			
Hydric Soil Present? Yes		la tha	Sampled A	Araa		
Wetland Hydrology Present? Yes			n a Wetland			
Remarks: Community type is wet floodplain forest. VEGETATION - Use scientific names of plants						
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Species		
1. Acer saccharinum	20	Yes	FACW	That are OBL, FACW, or FAC:	5 (A)	
Salix nigra Ulmus americana	10 5	Yes No	OBL FACW	Total Number of Dominant Species Across All Strata:	5 (D)	
4.		110	171011	Percent of Dominant Species	(B)	
5.				That are OBL, FACW, or FAC:	100% (A/B)	
Sapling/Shrub Stratum (Plot size:15 ft radius)	35	= Total Cov	ver	Prevalence Index worksheet:	(,,,,)	
1. Cornus obliqua	5	Yes	FACW		ultiply by:	
2. Rhamnus cathartica	2	Yes	FAC	OBL species x 1	=	
Amorpha fruticosa 4.	1	No	FACW	FACW species x 2	=	
5.				FAC species x 3	=	
	8	= Total Cov	ver	· ——	=	
Herb Stratum (Plot size: 5 ft radius)	00	V	E 4 (C) 4/	UPL species x 5		
Phalaris arundinacea Lycopus americanus	60 3	Yes No	FACW OBL	Column Totals (A)	(B)	
3. Acer saccharinum	1	No	FACW	Prevalence Index =B/A :		
4. Epilobium coloratum	1	No	OBL	Hydrophytic Vegetation Indicate 1-Rapid Test for Hydrophytic		
5. Oenothera biennis 6. Typha angustifolia	1 1	No No	FACU OBL	✓ 2-Dominance Test is >50%	vegetation	
7				3-Prevalence Index is < or =3	.01	
δ				4-Morphological Adaptations ¹		
9. 10.				data in Remarks or on a sepa Problematic Hydrophytic Veg	*	
10				7	` ' '	
Woody Vine Stratum (Plot size: 30 ft radius)	67	= Total Cov	ver	¹ Indicators of hydric soil and wet must be present, unless disturbe		
1	0	= Total Cov	ver	Hydrophytic Vegetation Present? Yes		
Remarks: (Include photo numbers here or on a separate	e sheet.)					

73 SOIL Sampling Point: 14A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 2.5Y 3/1 0-4 95 10YR 4/4 5 SIL 90 SICL 4-11 2.5Y 4/1 10YR 4/4 8 С Μ 4-11 2.5Y 5/2 2 D Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) ✓ Depleted Matrix (F3) ✓ Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers Midwest Region - Version 2.0

Remarks:

Project/Site: I-55 (FAI 55)		City/Count	y: Will	Sampling Date	10/22/2014	
Applicant/Owner: IDOT District 1				State: IL Sampling Poin	t 14B	
				hip, Range: Sec. 2, T36N, R9E		
				concave, convex, none): Convex		
				Datum: N		
	·					
Are climatic/hydrologic conditions on the site typical for t				no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No	-		(11	Are "Normal Circumstances" pre	scant? V	00
Are Vegetation No , Soil No , or Hydrology No				•		
	_			(If needed, explain any answers		
SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? No	snowing	sampling	point io	cations, transects, impor	tant reatu	res, etc
Hydric Soil Present? No			Sampled a Wetland			
Wetland Hydrology Present? No		Within	i a vvetiani	ur <u>No</u>		
Remarks: Community type is upland forest. VEGETATION - Use scientific names of plants						
Trop Stratum (Diet size) 20 ft andius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft radius 1. Populus deltoides	45	Yes	FAC	 Number of Dominant Species That are OBL, FACW, or FAC: 	2	(4)
2. Acer negundo	10	No	FAC	Total Number of Dominant		_ (A)
3.				Species Across All Strata:	4	_ (B)
4 5.				Percent of Dominant Species That are OBL, FACW, or FAC:	50%	
	55	= Total Co	ver .		3070	_ (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)				Prevalence Index worksheet:		
Lonicera maackii Rhamnus cathartica	45 5	Yes No	UPL FAC		<u>/lultiply by:</u>	=
3.			170	T '	=	-
4.				FACW species x 2	2 =	=-
5					3 =	=
Herb Stratum (Plot size: 5 ft radius)	50	= Total Co	ver		l = 5 =	=
Solanum dulcamara	7	Yes	FAC	Column Totals (A)		(B)
2. Lonicera maackii	5	Yes	UPL			_(D)
3. Acer negundo	2	No	FAC	Prevalence Index =B/A	-	_
4. Cirsium arvense	2	No	FACU	Hydrophytic Vegetation Indica		
5. Hackelia virginiana	2	No	FACU	1-Rapid Test for Hydrophytic	vegetation	
6. Sedum purpureum		No	UPL	2-Dominance Test is >50% 3-Prevalence Index is < or =	2 01	
7. 8.				4-Morphological Adaptations		ınnortina
9.				data in Remarks or on a sep		
10				Problematic Hydrophytic Ve	getation¹ (Exp	olain)
Woody Vine Stratum (Plot size:30 ft radius)	20	= Total Co	ver	¹ Indicators of hydric soil and we must be present, unless disturb		
1. Vitis riparia	1	No	FACW	Hydrophytic	- a or problem	
2				Vegetation		
	1	= Total Co	ver	Present? No	-	
Remarks: (Include photo numbers here or on a separa	te sheet.)					

SOIL Sampling Point: 14B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/2 0-10 100 SIL 5% gravel Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material/ gravel Type: **Hydric Soil Present?** No Depth (inches): 10 Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/County: Will		Sampling Date	10/22/2014			
Applicant/Owner: IDOT District 1		State: IL Sampling Point 15A					
Investigator(s): Tsai, Marcum, and Handel	Section, Townsh	nip, Range: Sec.	. 2, T36N, R9E				
Landform (hillslope, terrace, etc.): _Excavated depression	Local relief (ce	Local relief (concave, convex, none): Concave					
Slope (%): <u>< 1</u> Lat: <u>41.63570</u> L	.ong: <u>-88.16579</u>		Datum: NAI	D 83			
Soil Map Unit Name: NRCS mapped as Water		NWI class	sification: PUBGx				
Are climatic/hydrologic conditions on the site typical for this time of year	r? Yes (If n	no explain in Rem	narks.)				
Are Vegetation No, Soil No, or Hydrology No significantly of	disturbed?	Are "Normal Circ	cumstances" prese	ent? Yes			
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	blematic?	(If needed, expla	ain any answers in	Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing s	sampling point loo	cations, trans	sects, importa	nt features, etc			
Hydrophytic Vegetation Present?							
Hydric Soil Present?	Is the Sampled A	rea					
Wetland Hydrology Present?	within a Wetland	!? <u>N</u>	lo				
Remarks: Community type is deepwater aquatic habitat. This site is a deepwater aquatic habitat with an average water depth of Delineation Manual (Environmental Laboratory 1987) it is therefore no describe this site.							
VEGETATION - Use scientific names of plants.	.	1					
	Dominant Indicator Species? Status	Dominance Te					
1.	•	Number of Dom That are OBL, I	FACW, or FAC:	(A)			
2		Total Number o		, ` ,			
3. 4.		Species Across		(B)			
5		Percent of Dom That are OBL, I	FACW, or FAC:	(A/B)			
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Prevalence Inde	ex worksheet:				
1		1	ver of: Mu				
3.		OBL species	x 1 =				
4.		FACW species		<u> </u>			
5		FAC species FACU species	X 3 =	<u> </u>			
Herb Stratum (Plot size:)	= Total Cover	UPL species	x 5 =	= =			
1.		Column Totals		(B)			
2.		Prevale	ence Index =B/A =				
3. 4.		Hydrophytic Ve	getation Indicato	ors			
5.		4	t for Hydrophytic \	egetation/			
6. 7.			e Test is >50%	0.1			
8.		1 🖳	e Index is < or =3.0 sical Adaptations ¹ .0	(Provide supporting			
9		data in Rem	arks or on a separ Hydrophytic Vege	ate sheet)			
	= Total Cover	¹ Indicators of hy	ydric soil and wetlant, unless disturbed	and hydrology			
1		Hydrophytic		-			
2	= Total Cover	Vegetation Present?					
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL								Sampling Point:	:15A
Profile Desc	cription: (Describe to	the depth n	eeded to documen	t the indi	cator or	confirm	the absence o	f indicators.)	
Depth _	Matrix		Redox	Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
	centration, D=Depleti	on, RM=Redu	iced Matrix, MS=Mas	ked Sand	Grains.			tion: PL=Pore Lining,	
Hydric Soil In							Indicators for	Problematic Hydric	Soils [°] :
Histosol (,		Sandy Gleyed I)		Coast F	Prairie Redox (A16)	
	pedon (A2)		Sandy Redox (Dark S	urface (S7)	
Black His	` '		Stripped Matrix				☐ Iron-Ma	anganese Masses (F1	2)
	Sulfide (A4)		Loamy Mucky M				☐ Very SI	hallow Dark Surface (7	ΓF12)
	Layers (A5)		Loamy Gleyed		2)		Other (Explain in Remarks)	
2 cm Mud	ck (A10)		Depleted Matrix	(F3)					
	Below Dark Surface	(A11)	Redox Dark Su	rface (F6)					
☐ Thick Da	rk Surface (A12)		Depleted Dark		- 7)			of hydrophytic vegeta	
Sandy M	ucky Mineral (S1)		Redox Depress	ions (F8)				drology must be prese sturbed or problematio	
5 cm Mud	cky Peat or Peat (S3)						u.	starbed or problematic	.
Restrictive La	ayer (if observed):								
Type:			_				Hydric Soil Pre	sent?	
Depth (inches	s):		_				,u		
Damada									
Remarks:									
HYDROLO	GY								
Wetland Hydi	ology Indicators:						Seco	ndary Indicators	
_	itors (minimum of one	e is required:	check all that apply)					mum of two is required	d)
Surface W	•		Water-Stained	d Leaves	(B9)		□s	Surface Soil Cracks (Be	3)
	r Table (A2)		Aquatic Fauna		(- /			rainage Patterns (B10	,
☐ Saturation			True Aquatic	` ,	14)		_	ry-Season Water Tab	
Water Mar			Hydrogen Sul	`	,		· 	Crayfish Burrows (C8)	.0 (02)
	Deposits (B2)		Oxidized Rhiz		, ,	Roots	_	saturation Visible on A	erial
Drift Depos	. , ,		Presence of F	•	_	,		nagery (C9)	
	or Crust (B4)		Recent Iron R			Soils (CA	₃₎ □ S	tunted or Stressed Pla	ants (D1)
☐ Iron Depos	, ,		☐ Thin Muck Su			00) 01100		Geomorphic Position (D	02)
	Visible on Aerial Imag	gery (B7)	Gauge or We				□ F	AC-Neutral Test (D5)	
	egetated Concave Su	. , ,	Other (Explain	,	,				
_ , ,			U Other (Explain	I III Keilla	iiko)				
Field Observater Surface Water		Depth (inch	nes).						
	·	_ ' '	· -						
Water Table F	·	_ Depth (incl	· -						
Saturation Pre (includes capi		_ Depth (incl	nes):			Wetla	nd Hydrology P	resent?	
,	orded Data (stream ga	auga monitor	ing well serial photo	e previou	is inspect	tione) if	available:		
Describe Reco	naca bala (silealii ye	augo, momo	mg won, aenai piloto	o, pieviol	io iriopect		а ғанаыс.		
Remarks:									

Project/Site: I-55 (FAI 55)	City/County: Will	Samp	ling Date 10/22/201	14			
Applicant/Owner: IDOT District 1		State: IL Sampling Point 16A					
Investigator(s): Tsai, Marcum, and Handel	Section, Townsh	nip, Range: Sec. 2, T36	N, R9E				
Landform (hillslope, terrace, etc.): Excavated depression	Local relief (co	oncave, convex, none):	Concave				
Slope (%): <u>< 1</u> Lat: <u>41.63620</u> L	.ong: <u>-88.16687</u>	Da	atum: NAD 83				
Soil Map Unit Name: NRCS mapped as Water		NWI classification	n: PUBGx				
Are climatic/hydrologic conditions on the site typical for this time of year	r? Yes (If n	o explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly of	disturbed?	Are "Normal Circumstar	nces" present?	Yes			
Are Vegetation $\underline{ \text{No}}$, Soil $\underline{ \text{No}}$, or Hydrology $\underline{ \text{No}}$ naturally probability	olematic?	(If needed, explain any	answers in Remarks	s.)			
SUMMARY OF FINDINGS - Attach site map showing s	ampling point loc	cations, transects,	important feat	ures, etc			
Hydrophytic Vegetation Present?							
Hydric Soil Present?	Is the Sampled A	ırea					
Wetland Hydrology Present?	within a Wetland	? <u>No</u>					
Remarks: Community type is deepwater aquatic habitat. This site is a deepwater aquatic habitat with an average water depth of Delineation Manual (Environmental Laboratory 1987) it is therefore no describe this site.				te to			
VEGETATION - Use scientific names of plants.	Danisant Indianta	T					
	Dominant Indicator Species? Status	Dominance Test work					
1.		 Number of Dominant S That are OBL, FACW, 		(A)			
2		Total Number of Domir		` '			
J		Species Across All Stra	-	(B)			
5.	= Total Cover	Percent of Dominant S That are OBL, FACW,	FAC.	(A/B)			
Sapling/Shrub Stratum (Plot size:)		Prevalence Index work					
1.		Total % Cover of:					
3.		OBL species FACW species	x 1 =	_			
4		FAC species	x 2 = x 3 =				
5	T / 10	FACU species	x 4 =				
Herb Stratum (Plot size:)	= Total Cover	UPL species	x 5 =	<u> </u>			
1		Column Totals	(A)	(B)			
2.		Prevalence Inc	dex =B/A =				
3		Hydrophytic Vegetatio 1-Rapid Test for Hyd		<u> </u>			
6.		2-Dominance Test is					
7 8.		3-Prevalence Index		supporting			
9.		data in Remarks or					
10.		Problematic Hydrop	hytic Vegetation ¹ (E	xplain)			
Woody Vine Stratum (Plot size:)	= Total Cover	¹ Indicators of hydric so must be present, unles					
1. 2.		Hydrophytic					
	= Total Cover	Vegetation Present? —					
Remarks: (Include photo numbers here or on a separate sheet.)		1					

SOIL								Sampling Poin	t:16A
Profile Desc	cription: (Describe to	the depth ne	eded to documer	nt the indic	cator or	confirm	the absence of	of indicators.)	
Depth _	Matrix		Redox	Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
									
-									
1- 00		514.5					2.		
	centration, D=Depletion	on, RM=Reduc	ced Matrix, MS=Ma	sked Sand	Grains.			ation: PL=Pore Lining,	
Hydric Soil In			Sandy Gloved	Matrix (94)	١		_	r Problematic Hydric	5011S :
_	ipedon (A2)		Sandy GleyedSandy Redox ()		_	Prairie Redox (A16)	
☐ Black His							_	Surface (S7)	
_	` ,		Stripped Matrix		1\			anganese Masses (F1	•
	n Sulfide (A4)		Loamy Mucky					hallow Dark Surface (TF12)
2 cm Mu	Layers (A5)		Loamy Gleyed)		Other	(Explain in Remarks)	
_	Below Dark Surface	(A11)	☐ Depleted Matri ☐ Redox Dark Su						
= :	rk Surface (A12)	(A11)	Depleted Dark	` ,			3 Indicator	s of hydrophytic veget	tation and
=	ucky Mineral (S1)		Redox Depress	•	1)			drology must be pres	
	cky Peat or Peat (S3)		Redox Deples:	SIUTIS (FU)				isturbed or problemati	
	ayer (if observed):								
Type:	- \		-			1	Hydric Soil Pre	esent?	
Depth (inches	s):		-						
Remarks:									
HYDROLO	2V								
	rology Indicators:						Saco	ondary Indicators	
-	ators (minimum of one	is required: of	hock all that apply)					mum of two is require	d)
Surface W	,	is required. C	Water-Staine		(BQ)		<u>`</u>	Surface Soil Cracks (E	,
=	r Table (A2)		Aquatic Faun		(09)			Drainage Patterns (B1	,
Saturation	` ,		True Aquatic	` ,	(4)			Dry-Season Water Tal	
Water Mar	` '		Hydrogen Su					Crayfish Burrows (C8)	ole (C2)
	Deposits (B2)		Oxidized Rhiz		` '	Poots (_	Saturation Visible on A	verial
Drift Depos	. ,		Presence of	•	_	, 110013 (` '	magery (C9)	Chai
	or Crust (B4)		Recent Iron F			Soile (C6		Stunted or Stressed P	lants (D1)
☐ Iron Depos	` ,		☐ Thin Muck St			Jons (Co		Geomorphic Position (D2)
	Visible on Aerial Imag	nery (B7)	Gauge or We				□ F	AC-Neutral Test (D5)	
=	egetated Concave Su	, ,	Other (Explai						
_ , ,			Other (Explai	III III IXCIIIa	11(3)				
Field Observater Surface Water		Depth (inch	es):						
Water Table F		Depth (inch	, 						
Saturation Pre	-	Depth (inch	· —			Wetlar	nd Hydrology I	Present?	
(includes capi		_ Deptil (illcil	es)			Wellai	ia riyarology i		=
	orded Data (stream ga	auge, monitorii	ng well, aerial photo	os, previou	s inspect	tions), if	available:		
		-	•	-	•	•			
Remarks:									
Nemaiks.									

Project/Site: _I-55 (FAI 55)		City/County	: Will		Sampling Date 10/22/20	014
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 17A	
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Townsh	nip, Range: Sec.	2, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression		Lo	cal relief (c	oncave, convex, n	one): Concave	
Slope (%): < 1 Lat: 41.63712		Long: -88.1	6549		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Orthents, loamy, und		<u></u>				
Are climatic/hydrologic conditions on the site typical for this tin				no explain in Rema	·	
Are Vegetation No , Soil No , or Hydrology No sign					umstances" present?	Yes
Are Vegetation No , Soil No , or Hydrology No natu					n any answers in Remar	
SUMMARY OF FINDINGS - Attach site map sho			point lo		·	,
Hydrophytic Vegetation Present? Yes_						
Hydric Soil Present? Yes		Is the	Sampled A	rea		
Wetland Hydrology Present? Yes			a Wetland		S	
Remarks: Community type is wetland pond.						
VEGETATION - Use scientific names of plants.	solute	Dominant	Indicator	T		
	Cover	Species?	Status	Dominance Tes Number of Domi		
1.				That are OBL, F.		(A)
2				Total Number of		、 /
3. 4.				Species Across		(B)
5.				Percent of Domi That are OBL, F.		(A (D)
Sapling/Shrub Stratum (Plot size:15 ft radius)	0	= Total Cov	er	Prevalence Inde		(A/B)
1. Salix amygdaloides	1	No	FACW	Total % Cove		:
2.				OBL species	x 1 =	
3				FACW species	x 2 =	
4. 5.				FAC species	x 3 =	
	1	= Total Cov	er	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)				UPL species	x 5 =	
Phragmites australis Typha angustifolia	70 5	Yes No	FACW OBL	Column Totals	(A)	(B)
3. Coronilla varia	2	No	UPL	Prevale	nce Index =B/A =	
4. Equisetum arvense	1	No	FAC		getation Indicators	
5. 6.				✓ 1-Rapid Test2-Dominance	for Hydrophytic Vegetati	on
6. 7.				4 🖵	Index is < or =3.01	
8.				4-Morphologic	cal Adaptations1 (Provide	
9				1	rks or on a separate she Hydrophytic Vegetation¹ (,
Woody Vine Stratum (Plot size: 30 ft radius)	78	= Total Cov	rer		dric soil and wetland hyd , unless disturbed or pro	
1		T-4-1-0		Hydrophytic Vegetation	Yes	
=	0	= Total Cov	EI	Present?		
Remarks: (Include photo numbers here or on a separate she	eet.)					

SOIL

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

Depth Matrix Redox Features

(inches) Color (moist) % Type¹ Loc² Texture Remarks

Depth	Ma	ıtrix		Redox F	eatures					
(inches)	Color (moi	st) %	Co	olor (moist)	%	Type ¹	Loc²	Texture	Remarks	3
0-4	5Y 3/1	100		·				MK		
4-5	5Y 5/1	100						S		
-										
¹Type: C=Co	oncentration, D=I	Depletion, RM=	Reduced M	atrix, MS=Mask	ced Sand	Grains.		² Lo	ocation: PL=Po	ore Lining, M=Matrix
Hydric Soil	Indicators:							Indicators f	for Problema	tic Hydric Soils ³ :
Histoso	l (A1)			andy Gleyed M	atrix (S4)			Coas	st Prairie Redo	ox (A16)
Histic E	pipedon (A2)			andy Redox (S	5)			Dark	Surface (S7)	, ,
☐ Black H	listic (A3)			tripped Matrix (S6)			Iron-	Manganese M	Masses (F12)
Hydrogo	en Sulfide (A4)		L	oamy Mucky M	ineral (F1)		Very	Shallow Dark	Surface (TF12)
_	ed Layers (A5)			oamy Gleyed M		1		Othe	er (Explain in F	Remarks)
✓ 2 cm M	` '		=	epleted Matrix	` '					
	ed Below Dark Su	, ,	=	ledox Dark Surf	` '					
_	ark Surface (A1	,	=	epleted Dark S	`	7)				nytic vegetation and
	Mucky Mineral (S	,	_ R	ledox Depression	ons (F8)			wetiand	nyarology mus disturbed or I	st be present, unless
5 cm M	ucky Peat or Pea	at (S3)							alotalboa of [problematio.
Restrictive	Layer (if observ	ed):								
Type:	Filled mate	rial/gravel					H	lydric Soil P	resent?	Yes
Depth (inch	es):	5								
HYDROLC										
_	drology Indicate								condary Indica inimum of two	
	cators (minimum	of one is requ						(1111)		
✓ Surface V				Water-Stained	,	B9)			Surface Soil	` '
	ter Table (A2)			Aquatic Fauna	. ,	4)			Drainage Pa	
✓ Saturation Water Ma			✓	True Aquatic P	•	•			•	Water Table (C2)
_	t Deposits (B2)			Hydrogen Sulfi		. ,	Daata (C2)	Crayfish Bur	rows (C8) isible on Aerial
Drift Depo				Oxidized Rhizo Presence of Re		_	Roots (C3)	Imagery (C9	
	t or Crust (B4)			Recent Iron Re		` ,	oile (Ce)	,		tressed Plants (D1)
Iron Depo	. ,			Thin Muck Surf		i illieu S	ouis (Co,	, <u> </u>		Position (D2)
	n Visible on Aeri	al Imagery (B7	7)	Gauge or Well		١		✓	FAC-Neutral	Test (D5)
	Vegetated Conc			Other (Explain	,	,				, ,
Field Obser				Otrici (Explairi	III IXCIIIAI	1.3)				
Surface Wat		Yes Depti	h (inches):	<5						
Water Table	Present?	Yes Depti	h (inches):	0						
Saturation P	_		h (inches):	0			Wetlan	nd Hydrology	v Present?	Yes
(includes cap			(11101100).				uli		,	
Describe Re	corded Data (str	eam gauge, m	onitoring we	ll, aerial photos	, previous	s inspecti	ions), if a	available:		
Remarks:										

Project/Site: I-55 (FAI 55)		_ City/Count	y: Will	Sampling Dat	te 10/22/2014	
Applicant/Owner: IDOT District 1	State: IL Sampling Point 17B/18B/19B					
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 2, T36N, R9E		
L 46 (b.91-1 t t) 1.91-1				concave, convex, none): Conve		
Slope (%): < 2 Lat: 41.63712		Long: -88.1	6656	Datum: I	NAD 83	
Soil Map Unit Name: Orthents, loamy, undulating				NWI classification: U		
Are climatic/hydrologic conditions on the site typical for the	nis time of ye	ar? Ye	s (If	no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No				Are "Normal Circumstances" pi	resent? Yes	
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answers		
SUMMARY OF FINDINGS - Attach site map			point lo			
Hydrophytic Vegetation Present? No	<u></u>			-		
Hydric Soil Present? No		le the	Sampled A	۸raa		
Wetland Hydrology Present? No			n a Wetland			
Remarks: Community type is upland forest.						
VEGETATION - Use scientific names of plants	S.					
Total Observation (Plantains 200 ft at 1	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft radius 1. Populus deltoides	10	Yes	FAC	Number of Dominant Species That are OBL, FACW, or FAC	: 1 (A)	
Prunus serotina	10	Yes	FACU	Total Number of Dominant	: <u>1</u> (A)	
3.				Species Across All Strata:	4 (B)	
4	20	= Total Co	/Or	Percent of Dominant Species That are OBL, FACW, or FAC	: <u>25%</u> (A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft radius)		_ = 10ta1 00	V C1	Prevalence Index worksheet:		
Lonicera maackii	45	Yes	UPL	Total % Cover of:	Multiply by:	
Lonicera morrowii Rhamnus cathartica	10 3	No No	FACU FAC	T ' —	1 =	
4.		110	1710		2 =	
5					3 =	
Herb Stratum (Plot size: 5 ft radius)	58	= Total Co	ver		4 = 5 =	
1. Lonicera maackii	40	Yes	UPL	Column Totals (A		
Coronilla varia	3	No	UPL	Prevalence Index =B/A	·` ` ·	
3. Daucus carota	2	No	UPL			
4. Solidago canadensis	2	No	FACU	Hydrophytic Vegetation Indic		
5. Rhamnus cathartica 6. Rubus sp.	<u>1</u> 1	No No	FAC -	1-Rapid Test for Hydrophyt	-	
7. Taraxacum officinale	1	No	FACU	3-Prevalence Index is < or		
8.				4-Morphological Adaptation		
9				data in Remarks or on a se	parate sheet)	
10				Problematic Hydrophytic Ve	egetation¹ (Explain)	
Woody Vine Stratum (Plot size: 30 ft radius)	50	_ = Total Co	ver	¹ Indicators of hydric soil and w must be present, unless distur		
1. 2.				Hydrophytic		
	0	= Total Co	ver .	Vegetation Present? No	_	
Pomarka: (Include photo numbers have as an a control	o chect \	=				
Remarks: (Include photo numbers here or on a separat	e sneet.)					

SOIL Sampling Point: |7B/18B/19E

Profile Des	scription: (Describe to	the depth	needed to document	the indic	cator or	confirm t	the absence o	f indicators.)
Depth	Matrix			eatures	. =-			,
(inches)	Color (moist)	~ ~	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-6	10YR 3/2	100	Color (molet)	70	турс	200	SIL	Romano
-								
¹ Type: C=Co	ncentration, D=Depleti	on, RM=Red	uced Matrix, MS=Masl	ked Sand	Grains.		² Loca	tion: PL=Pore Lining, M=Matrix
Hydric Soil	ndicators:						Indicators for	Problematic Hydric Soils ³ :
Histoso	` '		Sandy Gleyed M	, ,)		Coast F	Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Redox (S				☐ Dark Su	urface (S7)
=	istic (A3)		Stripped Matrix (☐ Iron-Ma	nganese Masses (F12)
	en Sulfide (A4)		Loamy Mucky M				☐ Very Sh	nallow Dark Surface (TF12)
	d Layers (A5)		Loamy Gleyed N)		Other (I	Explain in Remarks)
=	uck (A10)		Depleted Matrix					
= .	d Below Dark Surface	(A11)	Redox Dark Sur	` '				
	ark Surface (A12)		Depleted Dark S		7)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Redox Depressi	ons (F8)				drology must be present, unless sturbed or problematic.
5 cm M	ucky Peat or Peat (S3)						<u></u>	orano di prodicinano.
Restrictive I	_ayer (if observed):							
Туре:	Filled material		_			н	ydric Soil Pre	sent? No
Depth (inch	es): <u>6</u>		<u> </u>				•	
HYDROLO								
-	drology Indicators:							ndary Indicators num of two is required)
	cators (minimum of one	s is required:			D0)		<u> </u>	
=	Vater (A1)		☐ Water-Stained	`	B9)		=	urface Soil Cracks (B6)
_ •	er Table (A2)		Aquatic Fauna	, ,	4)			rainage Patterns (B10)
Saturation	, ,		True Aquatic F					ry-Season Water Table (C2)
Water Ma	Deposits (B2)		Hydrogen Sulfi			Danta (C		rayfish Burrows (C8)
Drift Depo			Oxidized RhizoPresence of R			Roots (C		aturation Visible on Aerial nagery (C9)
	or Crust (B4)		Recent Iron Re			Saila (CC)	□ 0	tunted or Stressed Plants (D1)
☐ Iron Depo	` '		Thin Muck Sur			ouis (Co)		eomorphic Position (D2)
= .	n Visible on Aerial Ima	gery (B7)	Gauge or Well	, ,			F.	AC-Neutral Test (D5)
	Vegetated Concave Su	. , ,	Other (Explain				_	,
Field Obser	<u> </u>	(= 0)	Other (Explain	III ICIIIa	iko)			
Surface Wat		Depth (inc	ches):					
Water Table	Present? No	Depth (inc	ches):					
Saturation P		Depth (inc	ches):			Wetland	d Hydrology P	resent? No
	corded Data (stream ga	auge, monito	ring well, aerial photos	s, previou	s inspect	ions), if a	available:	
D								
Remarks:								

Project/Site: I-55 (FAI 55)		_City/Count	y: vviii	Samp	bling Date 10/22/	2014
Applicant/Owner: IDOT District 1				State: IL Sam	oling Point 18A	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 2, T36	6N, R9E	
Landform (hillslope, terrace, etc.): Depression		L	ocal relief (d	concave, convex, none):	Concave	
Slope (%): <u>< 1</u> Lat: 41.63703		Long: -88.1	6611	Г	Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Orthents, lo	amy, undulating;	revised to U	ndetermine	d NWI classification	on: PEMC	
Are climatic/hydrologic conditions on the site typical				no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology				Are "Normal Circumsta	inces" present?	Yes
Are Vegetation No , Soil No , or Hydrology				(If needed, explain any	_	<u> </u>
SUMMARY OF FINDINGS - Attach site n						,
Hydrophytic Vegetation Present? Yes			<u> </u>		<u> </u>	<u>-</u>
Hydric Soil Present? Yes		ls the	Sampled A	Area		
Wetland Hydrology Present? Yes			n a Wetland			
Remarks: Community type is wet shrubland.						
VEGETATION - Use scientific names of pl	ants.					
	Absolute	Dominant	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30 ft radius	% Cover		Status	Number of Dominant		
1				That are OBL, FACW, Total Number of Domi		(A)
3.				Species Across All Str		(B)
4. 5.				Percent of Dominant S That are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	0	= Total Co	ver	Prevalence Index wor	ksheet:	(,,,_)
1. Salix interior	15	Yes	FACW	Total % Cover of:		oy:
2.				OBL species	x 1 =	
J				FACW species	x 2 =	
5.				FAC species	x 3 =	
	15	= Total Co	ver	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)	75	V	E A O\A/	UPL species	x 5 =	
Phalaris arundinacea Eleocharis erythropoda	75 15	Yes No	FACW OBL	Column Totals	(A)	(B)
3. Phragmites australis	15	No	FACW	Prevalence In		
4. Mimulus ringens	1	No	OBL	Hydrophytic Vegetation ✓ 1-Rapid Test for Hy		tion
5. 6.				2-Dominance Test		ition
7.				3-Prevalence Index	is < or =3.01	
8				4-Morphological Ac		
9. 10.				data in Remarks or Problematic Hydrog	•	•
Woody Vine Stratum (Plot size: 30 ft radius)		= Total Co	ver	¹ Indicators of hydric so must be present, unle	oil and wetland hy	rdrology
1				Hydrophytic	oo aiotaibea oi pi	obicinatio.
2	0	= Total Co	ver	Vegetation Present?	Yes	
December (Industrialists				. 1000		
Remarks: (Include photo numbers here or on a sep	raiale STEEL.)					

85 SOIL Sampling Point: 18A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 5Y 2.5/1 0-4 100 MK 98 **FSL** 4-6 2.5Y 5/4 2.5Y 5/1 2 D Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) ✓ 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material/ gravel Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: This soil sample was not taken as normally would due to disturbance and compaction of filled material/gravel. This soil sample was disturbed with gravel at surface. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): 0 Saturation Present? Wetland Hydrology Present? Yes Depth (inches): Yes (includes capillary fringe)

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

Remarks:

Project/Site: I-55 (FAI 55)	City	y/County	: Will		Sampling Date	10/22/2014	
Applicant/Owner: IDOT District 1				State: IL	Sampling Poin	t 19A	
Investigator(s): Tsai, Marcum, and Handel		Sect	on, Townsl	nip, Range: Sec.	2, T36N, R9E		
Landform (hillslope, terrace, etc.): Depression			cal relief (c	oncave, convex, n	one): Concave	e	
Slope (%): < 1 Lat: 41.63700	Long	g: -88.16	6656		Datum: N	AD 83	
Soil Map Unit Name: NRCS mapped as Water; revised to Undeterm		·			ification: U		
Are climatic/hydrologic conditions on the site typical for this time of ye		Yes	s (If r	no explain in Rema			
Are Vegetation No , Soil No , or Hydrology No significantly		-	<u>, (</u>	Are "Normal Circu	,	sent? Yes	:
Are Vegetation No , Soil No , or Hydrology No naturally p	-			(If needed, explai		· · · · · · · · · · · · · · · · · · ·	
SUMMARY OF FINDINGS - Attach site map showing			noint lo		•	•	s etc
Hydrophytic Vegetation Present? Yes	Jan	irpiiiig	point io	cations, trans	cots, import	iant reature	3, 010
Hydric Soil Present? <u>Yes</u>			Sampled A a Wetland		e		
Wetland Hydrology Present? Yes		WILIIII	a Welland	i: <u>10</u>	<u> </u>		
Remarks: Community type is wet meadow.							
VEGETATION - Use scientific names of plants.							
Absolute	Dor	minant	Indicator	Dominance Tes	t worksheet		
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u> <u>% Cover</u>	Sp	ecies?	Status	Number of Domi			
1.				That are OBL, F.	· ·		(A)
2. 3.				Total Number of Species Across			
3. 4.				Percent of Domi			(B)
5.				That are OBL, F.			(A/B)
Sapling/Shrub Stratum (Plot size:15 ft radius)	_ = T	otal Cov	er	Prevalence Inde	v workshoot		(٨/٥)
1				Total % Cove		Multiply by:	
2.				OBL species		=	
3.				FACW species	x 2	2 =	
4				FAC species	x 3	3 =	
0	_ T	otal Cov	or	FACU species		ł =	
Herb Stratum (Plot size: 5 ft radius)	'	otal Oov	C1	UPL species		5 =	
1. Phalaris arundinacea 50		Yes	FACW	Column Totals	(A)	(В)
2. Phragmites australis 40		Yes	FACW	Prevale	nce Index =B/A	=	
3. Eupatorium serotinum 2 4. Alisma subcordatum 1		No No	FAC OBL	Hydrophytic Veg	getation Indica	tors	
5. Eleocharis erythropoda 1		No	OBL	✓ 1-Rapid Test	for Hydrophytic	Vegetation	
6. Lycopus americanus 1		No	OBL	2-Dominance			
7				1	Index is < or =3		
8					cal Adaptations rks or on a sepa		oorting
9. 10.					Hydrophytic Vec	,	ain)
95	= T	otal Cov	er	¹ Indicators of hyd			•
Woody Vine Stratum (Plot size: 30 ft radius)		0141 001	01	must be present			
1.				Hydrophytic			
2	= T	otal Cov	er	Vegetation Present?	Yes		
	'	J.G. 00V		i iesent!			
Remarks: (Include photo numbers here or on a separate sheet.)							

SOIL Sampling Point: 19A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 2.5Y 3/1 0-4 100 MK Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) ✓ 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material/ gravel Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: This soil sample was not taken as deeply as normally would due to compaction from filled material. There was gravel at the surface. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): 0 Saturation Present? Wetland Hydrology Present? Yes Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		_City/County	v: Will	Sampling Date	10/22/2014		
Applicant/Owner: IDOT District 1		State: IL Sampling Point 20A					
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Towns	hip, Range: Sec. 2, T36N, R9E			
Landform (hillslope, terrace, etc.): Depression			ocal relief (d	concave, convex, none): Concave			
Slope (%): < 1 Lat: 41.63702		Long: <u>-88.1</u>	6858	Datum: NA	ND 83		
Soil Map Unit Name: NRCS mapped as Orthents, loamy,	undulating;	revised to A	quoll	NWI classification: U			
Are climatic/hydrologic conditions on the site typical for thi	s time of ye	ar? Ye	s (If	no explain in Remarks.)			
Are Vegetation No , Soil No , or Hydrology No	significantly	/ disturbed?		Are "Normal Circumstances" pres	sent? Yes		
Are Vegetation No , Soil No , or Hydrology No	naturally pr	oblematic?		(If needed, explain any answers in	n Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing	sampling	point lo	cations, transects, importa	ant features, etc		
Hydrophytic Vegetation Present? Yes							
Hydric Soil Present? Yes		Is the	Sampled A	Area			
Wetland Hydrology Present? Yes		withir	a Wetland	d? <u>Yes</u>			
Remarks: Community type is wet floodplain forest.							
Tremains. Community type is wet noouplain forest.							
VEGETATION - Use scientific names of plants.							
	Absolute	Dominant	Indicator	Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Species			
Acer saccharinum Populus deltoides	45 45	Yes Yes	FACW FAC	That are OBL, FACW, or FAC:	(A)		
3.		162	FAC	Total Number of Dominant Species Across All Strata:	(B)		
4				Percent of Dominant Species	(B)		
5	90	= Total Cov	/er	That are OBL, FACW, or FAC:	(A/B)		
Sapling/Shrub Stratum (Plot size: 15 ft radius)		10101 001		Prevalence Index worksheet:			
1. Acer negundo	1	No	FAC		ultiply by:		
2. Rhamnus cathartica 3.	•	No	FAC		=		
4				FACW species x 2 FAC species x 3			
5				<u> </u>	 =		
Herb Stratum (Plot size: 5 ft radius)	2	= Total Cov	er er	UPL species x 5			
1.				Column Totals (A)	(B)		
2. 3.				Prevalence Index =B/A :	=		
4.				Hydrophytic Vegetation Indicat	ors		
5				1-Rapid Test for Hydrophytic	Vegetation		
6				✓ 2-Dominance Test is >50%3-Prevalence Index is < or =3	01		
8.				4-Morphological Adaptations	-		
9.				data in Remarks or on a sepa	rate sheet)		
10				Problematic Hydrophytic Veg			
Woody Vine Stratum (Plot size: 30 ft radius)	0	_ = Total Cov	er er	¹ Indicators of hydric soil and wet must be present, unless disturbe			
1 2				Hydrophytic			
	0	= Total Cov	/er	Vegetation Yes Present?			
Remarks: (Include photo numbers here or on a separate	sheet)	-					
remaine. (morade prote nambers note of on a separate	onoot.j						

SOIL Sampling Point: 20A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Type Loc 10YR 3/1 0-12+ 95 10YR 4/4 2 SIL 0-12+10YR 4/3 3 С Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ✓ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/County	: Will	San	npling Date 10	0/22/2014		
Applicant/Owner: IDOT District 1				State: IL Sampling Point 20B/21B				
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Townsł	ship, Range: Sec. 2, T36N, R9E				
Landform (hillslope, terrace, etc.): Outwash plain			ocal relief (c	oncave, convex, none)	: None			
Slope (%): 0 Lat: 41.63631		Long: -88.1	6875		Datum: NAD	83		
Soil Map Unit Name: NRCS mapped as Orthents, loamy,					ion: U			
Are climatic/hydrologic conditions on the site typical for this				no explain in Remarks.				
Are Vegetation No , Soil No , or Hydrology No				Are "Normal Circumst		nt? Y	es	
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain an				
SUMMARY OF FINDINGS - Attach site map s			point lo		-			
Hydrophytic Vegetation Present? No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		po		, , .	. routu	00, 010	
Hydric Soil Present? Yes								
			Sampled <i>A</i> a Wetland					
Wetland Hydrology Present? NoNo					•			
Remarks: Community type is non-native grassland.								
VEGETATION - Use scientific names of plants.								
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:			
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant				
1				That are OBL, FACV Total Number of Don	_	1	_ (A)	
3.				Species Across All S		2	_ (B)	
4				Percent of Dominant			_ (D)	
5	0	= Total Cov	/er	That are OBL, FACV	/, or FAC: _	50%	_ (A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft radius)				Prevalence Index wo	orksheet:			
1. Lonicera maackii	2	No	UPL	Total % Cover of:		iply by:		
2. Rosa multiflora 3.	1	No	FACU	OBL species	x 1 =		=	
4.				FACW species	x 2 =		=	
5.				FAC species				
Harb Christian (Diet sines 5 (see dies)	3	= Total Cov	ver	FACU species			-	
Herb Stratum (Plot size: 5 ft radius) 1. Solidago canadensis	45	Yes	FACU	UPL species	x 5 =		(D)	
Poa pratensis	35	Yes	FAC	Column Totals	(A)		(B)	
3. Cirsium arvense	5	No	FACU		ndex =B/A =		= -	
4. Aster pilosus	2	No	FACU	Hydrophytic Vegetat				
5. Vitis riparia 6. Acer negundo	2 1	No No	FACW FAC	1-Rapid Test for F		egetation		
7. Lactuca serriola	1	No	FACU	3-Prevalence Inde		1		
8.				4-Morphological A			pporting	
9				data in Remarks of	or on a separa	te sheet)	-	
10				Problematic Hydro	ophytic Vegeta	ation¹ (Exp	olain)	
Woody Vine Stratum (Plot size: 30 ft radius)	91	= Total Cov	er	¹ Indicators of hydric s must be present, unl				
1				Hydrophytic				
	0	= Total Cov	ver .	Vegetation Present?	No			
Remarks: (Include photo numbers here or on a separate	sheet.)							

SOIL Sampling Point: 20B/21B

Profile Des	scription: (Describe to	the depth n	eeded to document	the indi	cator or	confirm t	the abser	nce of	indicators.)
Depth	Matrix		Redox	Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	•	Remarks
0-12+	10YR 3/1	98	10YR 4/3	2	С	M	SIL		
-									
¹ Type: C=Co	ncentration, D=Depletio	n RM-Redu	ced Matrix MS=Mas	ked Sand	Grains		2	Locat	ion: PL=Pore Lining, M=Matrix
Hydric Soil		ii, itivi–iteau	cca matrix, mo-mas	ikca Garia	Oranis.				Problematic Hydric Soils ³ :
Histoso			Sandy Gleyed N	/latrix (S4)				rairie Redox (A16)
	pipedon (A2)		Sandy Redox (S		,				rface (S7)
	istic (A3)		Stripped Matrix						nganese Masses (F12)
Hydroge	en Sulfide (A4)		Loamy Mucky M	/lineral (F	1)				allow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy Gleyed	Matrix (F2)			-	Explain in Remarks)
☐ 2 cm M	uck (A10)		Depleted Matrix	(F3)				(_	explain in Hemanie)
Deplete	d Below Dark Surface (A	A11)	✓ Redox Dark Sur	face (F6)					
☐ Thick D	ark Surface (A12)		Depleted Dark S	Surface (F	7)				of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Redox Depressi	ions (F8)			wetlar		rology must be present, unless sturbed or problematic.
5 cm M	ucky Peat or Peat (S3)							uis	dubed of problematic.
Restrictive I	_ayer (if observed):								
Type:			_			H	ydric So	il Pres	ent? Yes
Depth (inch	es):		_				,		
Remarks:									
rtomanto.									
	ACV								
HYDROLC								Casan	don Indicators
_	drology Indicators: cators (minimum of one	ie roquirod: o	hock all that apply)						dary Indicators num of two is required)
	Vater (A1)	is required. C	Water-Stained	l Lagyas /	'Ra\		-		urface Soil Cracks (B6)
	er Table (A2)		Aquatic Fauna		(09)				rainage Patterns (B10)
Saturation			True Aquatic F		4)				y-Season Water Table (C2)
Water Ma			Hydrogen Sulf						ayfish Burrows (C8)
	Deposits (B2)		Oxidized Rhize		. ,	Roots (C	33)	_	aturation Visible on Aerial
Drift Depo	. , ,		Presence of R		_	110010 (0	30,		agery (C9)
	or Crust (B4)		Recent Iron R			Soils (C6)		St	unted or Stressed Plants (D1)
☐ Iron Depo	` '		☐ Thin Muck Su			(,		Ge	eomorphic Position (D2)
I —	n Visible on Aerial Imag	ery (B7)	Gauge or Wel					FA	AC-Neutral Test (D5)
Sparsely	Vegetated Concave Sui	rface (B8)	Other (Explain						
Field Obser	vations:								
Surface Wat	er Present? No	Depth (inch	es):						
Water Table	Present? No	Depth (inch	ies):						
Saturation P	resent? No	Depth (inch	es):			Wetland	d Hydrol	ogy Pr	resent? No
(includes car									
Describe Re	corded Data (stream ga	uge, monitori	ng well, aerial photos	s, previou	s inspect	ions), if a	vailable:		
Remarks:									

Project/Site: I-55 (FAI 55)	City/County: Will	s	Sampling Date 10/22/2014	ļ.			
Applicant/Owner: IDOT District 1		State: IL S	Sampling Point 21A				
Investigator(s): Tsai, Marcum, and Handel	Section, Township, Range: Sec. 2, T36N, R9E						
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, no	ne): Concave				
Slope (%): < 1 Lat: _41.63605	Long: -88.16882		Datum: NAD 83				
Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating;	revised to Aquoll	NWI classifi	cation: U				
Are climatic/hydrologic conditions on the site typical for this time of ye	ar? Yes (If	no explain in Remarl	ks.)				
Are Vegetation No, Soil No, or Hydrology No significantly	/ disturbed?	Are "Normal Circur	mstances" present? Y	es			
Are Vegetation No, Soil No, or Hydrology No naturally pr	oblematic?	(If needed, explain	any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map showing	sampling point lo	cations, transe	cts, important featu	res, etc			
Hydrophytic Vegetation Present? Yes							
Hydric Soil Present? Yes	Is the Sampled	Area					
Wetland Hydrology Present? Yes	within a Wetlan						
Remarks: Community type is wet shrubland.							
, , , , , , , , , , , , , , , , , , ,							
VEGETATION - Use scientific names of plants.							
Absolute	Dominant Indicator	Dominance Test	worksheet:				
Tree Stratum (Plot size: 30 ft radius) % Cover	Species? Status	Number of Domina	•				
1		That are OBL, FA		_ (A)			
3.		Species Across A		_ (B)			
4 5.		Percent of Domina		(-)			
0	= Total Cover	That are OBL, FA	CW, or FAC:	(A/B)			
Sapling/Shrub Stratum (Plot size: 15 ft radius)	-	Prevalence Index					
1. Salix interior 40	Yes FACW	OBL species	of: Multiply by: x 1 =	-			
2. 3.		FACW species	x 2 =	_			
4		FAC species	x 3 =	_			
5	Total Cayer	FACU species	x 4 =				
Herb Stratum (Plot size: 5 ft radius)	= Total Cover	UPL species	x 5 =	_			
1. Phalaris arundinacea 95	Yes FACW	Column Totals	(A)	(B)			
2. 3.		Prevalend	ce Index =B/A =	_			
4.		Hydrophytic Vege	tation Indicators				
5.			or Hydrophytic Vegetation				
6		2-Dominance T 3-Prevalence Ir					
8.			al Adaptations¹ (Provide su	upporting			
9.		data in Remark	s or on a separate sheet)	•			
10		- ·	drophytic Vegetation ¹ (Ex				
Woody Vine Stratum (Plot size: 30 ft radius) 95	= Total Cover		ic soil and wetland hydrolo unless disturbed or proble				
1		Hydrophytic Vegetation					
0	= Total Cover	Present?	Yes				
Remarks: (Include photo numbers here or on a separate sheet.)		- J					

SOIL Sampling Point: 21A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/4 0-12+ 98 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	_ City/County: Will	Samp	oling Date 10/22/20	14
Applicant/Owner: IDOT District 1		State: IL Samp	oling Point 22A	
Investigator(s): Tsai, Marcum, and Handel	Section, Towns	hip, Range: Sec. 2, T36	6N, R9E	
Landform (hillslope, terrace, etc.): Depression on floodplain	Local relief (concave, convex, none):	Concave	
Slope (%): < 1 Lat: 41.63457	Long: -88.16889	[Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating;	revised to Aquoll	NWI classification	on: U	
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes (If	no explain in Remarks.)		
Are Vegetation No, Soil No, or Hydrology No significantly	<u> </u>	Are "Normal Circumsta	nces" present?	Yes
Are Vegetation No , Soil No , or Hydrology No naturally pi	oblematic?	(If needed, explain any	answers in Remark	s.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point lo	cations transacts	important feat	uras atc
Hydrophytic Vegetation Present? Yes		cations, transcots,	important reat	urcs, cto
Hydric Soil Present? Yes	Is the Sampled within a Wetland			
Wetland Hydrology Present? Yes	Within a Welland			
Remarks: Community type is wet meadow.				
VEGETATION -Use scientific names of plants.		T		
Absolute Tree Stratum (Plot size: 30 ft radius) % Cover	Dominant Indicator Species? Status	Dominance Test wor		
1166 Stratum (1 lot size. 30 it radius	•	 Number of Dominant S That are OBL, FACW, 		(A)
1		Total Number of Domi		(A)
3.		Species Across All Str	ata:	(B)
4		Percent of Dominant SThat are OBL, FACW,	or EAC:	
0	= Total Cover		-	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)		Prevalence Index wor Total % Cover of:		
1		OBL species	x 1 =	
J		FACW species	x 2 =	
4.		FAC species	x 3 =	
5	= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)	_ = 10(a) Cove	UPL species	x 5 =	
1. Phalaris arundinacea 95	Yes FACW	Column Totals	(A)	(B)
Polygonum coccineum 15 Cirsium arvense 2	No OBL No FACU	Prevalence In	dex =B/A =	
4.	110 17100	Hydrophytic Vegetation		
5.		1-Rapid Test for Hy		n
6		2-Dominance Test		
7. 8.		3-Prevalence Index 4-Morphological Ad		eupporting
9.		data in Remarks or		
10		Problematic Hydrop	ohytic Vegetation¹ (E	xplain)
Woody Vine Stratum (Plot size: 30 ft radius)	_ = Total Cover	¹ Indicators of hydric so must be present, unles		
1		Hydrophytic		
0	= Total Cover	VegetationPresent?	Yes	
Remarks: (Include photo numbers here or on a separate sheet.)				
(minute printer managed in a separate sites)				

SOIL Sampling Point: 22A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/4 0-10+ 98 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/County	/: VVIII		Sampling Date _1	10/22/2014
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 2	22B
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Townsh	nip, Range: Sec	c. 2, T36N, R9E	
Landform (hillslope, terrace, etc.): Outwash plain		Lo	ocal relief (c	oncave, convex,	none): None	
Slope (%): 0 Lat: 41.63455		Long: <u>-88.1</u>	6868		Datum: NAI	O 83
Soil Map Unit Name: NRCS mapped as Orthents, loamy, und	dulating;	revised to U	doll	NWI clas	ssification: U	
Are climatic/hydrologic conditions on the site typical for this til	me of yea	ar? Ye	s (If r	no explain in Rer	marks.)	
Are Vegetation No , Soil No , or Hydrology No sign	nificantly	disturbed?		Are "Normal Ci	rcumstances" prese	ent? Yes
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nat	urally pro	oblematic?		(If needed, exp	lain any answers in	Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owina	sampling	point lo	cations, tran	sects. importa	nt features, etc
Hydrophytic Vegetation Present? Yes			•	,	, .	, , , , , , , , , , , , , , , , , , ,
Hydric Soil Present? No		ls the	Sampled A	\roa		
Wetland Hydrology Present? No			a Wetland		No	
Remarks: Community type is non-native grassland.						
VEGETATION - Use scientific names of plants.						
· · · · · · · · · · · · · · · · · · ·	bsolute	Dominant	Indicator	Dominance T	est worksheet:	
<u>Tree Stratum</u> (Plot size: 30 ft radius %	Cover	Species?	Status		minant Species	
1.				· ·	FACW, or FAC:	1 (A)
2. 3.				Total Number Species Acros		1 (D)
4.				1	minant Species	(B)
5	0	= Total Cov	/or	That are OBL,	FACW, or FAC:	100% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)		= 10tai 00	701	Prevalence Inc	dex worksheet:	
1.				+		Itiply by:
2. 3.				OBL species		·
4.				FACW species FAC species		
5				FACU species	x 3 =	:
Herb Stratum (Plot size: 5 ft radius)	0	= Total Cov	/er	UPL species	x 5 =	
1. Poa pratensis	90	Yes	FAC	Column Totals		(B)
2. Plantago lanceolata	5	No	FACU	Preva	lence Index =B/A =	
3. Taraxacum officinale 4.	5	No	FACU	Hydrophytic V	egetation Indicato	rs
5.				-	st for Hydrophytic V	egetation
6.				_	ce Test is >50%	2.1
7. 8.				7 🖵	ce Index is < or =3.0 gical Adaptations ¹ (
9.					narks or on a separ	
10				Problemation	Hydrophytic Vege	tation¹ (Explain)
Woody Vine Stratum (Plot size: 30 ft radius)	100	= Total Cov	/er		nydric soil and wetla nt, unless disturbed	
1. 2.				Hydrophytic		
	0	= Total Cov	/er	Vegetation Present?	Yes	
Remarks: (Include photo numbers here or on a separate shi						
nemains, (include prioto numbers nere or on a separate sh	cc i.)					

22B SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/2 0-12 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/County: Will	Samplin	g Date 10/22/2014		
Applicant/Owner: IDOT District 1		State: IL Sampling Point 23A			
Investigator(s): Tsai, Marcum, and Handel	Section, Townsh	ship, Range: Sec. 1, T36N, R9E			
Landform (hillslope, terrace, etc.): Excavated depression	Local relief (c	oncave, convex, none): _C	oncave		
Slope (%): < 1 Lat: 41.62944	Long: <u>-88.16065</u>	Date	um: NAD 83		
Soil Map Unit Name: NRCS mapped as Orthents, loamy, undulating;	revised to Aquent	NWI classification:	PUBGx		
Are climatic/hydrologic conditions on the site typical for this time of year	ar? Yes (If r	no explain in Remarks.)			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly	disturbed?	Are "Normal Circumstance	es" present? Yes		
Are Vegetation No , Soil No , or Hydrology No naturally pro	oblematic?	(If needed, explain any an	swers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing	sampling point lo	cations, transects, ir	nportant features, etc		
Hydrophytic Vegetation Present? Yes					
Hydric Soil Present? Yes	Is the Sampled A	Area			
Wetland Hydrology Present? Yes	within a Wetland	? Yes			
Remarks: Community type is wet shrubland.					
Remarks. Community type is wet sinubiand.					
VEGETATION - Use scientific names of plants.					
Absolute	Dominant Indicator	Dominance Test works	hoot		
<u>Tree Stratum</u> (Plot size: 30 ft radius % Cover	Species? Status	- Number of Dominant Spe			
1.		That are OBL, FACW, or	()		
2		Total Number of Dominal Species Across All Strata	··		
3. 4.		Percent of Dominant Spe	——— (D)		
5		That are OBL, FACW, or			
Sapling/Shrub Stratum (Plot size:15 ft radius)	= Total Cover	Prevalence Index works	. ,		
1. Salix interior 10	Yes FACW	Total % Cover of:	Multiply by:		
2		OBL species	x 1 =		
3		FACW species	x 2 =		
5.		FAC species	x 3 =		
Harb Strature (Blot size 5 () as the h	= Total Cover	FACU species	x 4 =		
Herb Stratum (Plot size: 5 ft radius) 1. Typha angustifolia 80	Yes OBL	UPL species Column Totals	x 5 = (A) (B)		
2. Solanum dulcamara 1	No FAC	Prevalence Inde:			
3		Hydrophytic Vegetation			
5.		✓ 1-Rapid Test for Hydro			
6.		2-Dominance Test is			
7		3-Prevalence Index is			
9.		4-Morphological Adap data in Remarks or on	tations ¹ (Provide supporting		
9. 10.		-	rtic Vegetation¹ (Explain)		
Woody Vine Stratum (Plot size: 30 ft radius) 81	= Total Cover	¹ Indicators of hydric soil a must be present, unless			
1.		Hydrophytic	,		
2	= Total Cover	Vegetation	Yes		
Remarks: (Include photo numbers here or on a separate sheet.)		.			

SOIL Sampling Point: 23A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 2.5Y 2.5/1 0-3 100 MK 90 SIL 3-7 2.5Y 3/1 2.5Y 4/3 10 С Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) ✓ 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: This soil sample was not taken as deeply as normally would due to compaction from the filled material. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depth (inches): Water Table Present? Yes Depth (inches): 0 Saturation Present? Wetland Hydrology Present? Yes Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: I-55 (FAI 55)		_City/County	y: Will	Sampling Date	10/23/2014				
Applicant/Owner: IDOT District 1				State: IL Sampling Point 23B					
Investigator(s): Tsai, Marcum, and Handel		Section, Township, Range: Sec. 1, T36N, R9E							
Landform (hillslope, terrace, etc.): _Excavated depression			ocal relief (concave, convex, none): Concave					
Slope (%): < 1 Lat: 41.62751		Long:88.1	6190	Datum: NA	ND 83				
Soil Map Unit Name: NRCS mapped as Orthents, loamy,	undulating;	revised to A	quent	NWI classification: PUBGx	(
Are climatic/hydrologic conditions on the site typical for thi	s time of ye	ar? Ye	s (If	no explain in Remarks.)					
Are Vegetation No , Soil No , or Hydrology No	significantly	/ disturbed?		Are "Normal Circumstances" pres	sent? Yes				
Are Vegetation No , Soil No , or Hydrology No	naturally pr	oblematic?		(If needed, explain any answers in	n Remarks.)				
SUMMARY OF FINDINGS - Attach site map	showing	sampling	point lo	cations, transects, importa	ant features, etc				
Hydrophytic Vegetation Present? Yes									
Hydric Soil Present? Yes		Is the	Sampled A	Area					
Wetland Hydrology Present? Yes			n a Wetland						
Remarks: Community type is wetland pond.									
Remarks. Community type is wetland pond.									
VEGETATION - Use scientific names of plants.									
	Absolute	Dominant	Indicator	Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Species					
Populus deltoides Salix amygdaloides	35 5	Yes No	FAC FACW	That are OBL, FACW, or FAC: Total Number of Dominant	3 (A)				
3.	-			Species Across All Strata:	3 (B)				
4 5.				Percent of Dominant Species	` ,				
5	40	= Total Cov	ver	That are OBL, FACW, or FAC:	(A/B)				
Sapling/Shrub Stratum (Plot size: 15 ft radius)		-	= . 0	Prevalence Index worksheet:					
Salix amygdaloides 2	5	Yes	FACW		ultiply by: =				
2. 3.				FACW species x 2					
4				FAC species x 3					
5	5	= Total Cov	/or	FACU species x 4	=				
Herb Stratum (Plot size: 5 ft radius)		_ = 10ta1 C0	V C I	UPL species x 5	=				
1. Phalaris arundinacea	30	Yes	FACW	Column Totals (A)	(B)				
Apocynum cannabinum Ranunculus flabellaris	2 1	No No	FAC OBL	Prevalence Index =B/A =	=				
4.	·			Hydrophytic Vegetation Indicat					
5.				1-Rapid Test for Hydrophytic	Vegetation				
6				✓ 2-Dominance Test is >50%✓ 3-Prevalence Index is < or =3	.01				
8.				4-Morphological Adaptations ¹	(Provide supporting				
9				data in Remarks or on a sepa	,				
10.		TeleLO		Problematic Hydrophytic Veg	` ' '				
Woody Vine Stratum (Plot size: 30 ft radius)	33	= Total Cov	ver .	¹ Indicators of hydric soil and wet must be present, unless disturbe					
1 2				Hydrophytic					
	0	= Total Cov	/er	Vegetation Yes Yes					
Remarks: (Include photo numbers here or on a separate	sheet)	-							
remarks. (morado prioto namboro noto di di deparate	onoot.j								

SOIL Sampling Point: 23B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	Mat		•		Features					·		
(inches)	Color (mois		<u></u> %	Color (moist)	%	Type ¹	Loc²	Texture		Remarks		
0-4	2.5Y 2.5/1	- 7	100			. 7		MK				
4-6	2.5Y 4/1		98 2	2.5Y 4/3	2	С	М	MKSIL	-			
-												
-												
¹ Type: C=Co	ncentration, D=D	epletion	, RM=Reduc	ed Matrix, MS=Mas	sked Sand	Grains.		2	Locati	on: PL=Pore Lining, M=Matrix		
Hydric Soil	Indicators:							Indicator	s for F	Problematic Hydric Soils ³ :		
☐ Histoso	I (A1)			Sandy Gleyed I	Matrix (S4))		□ Co	oast Pr	rairie Redox (A16)		
☐ Histic E	pipedon (A2)			Sandy Redox (S5)					rface (S7)		
☐ Black H	istic (A3)			Stripped Matrix	(S6)					nganese Masses (F12)		
☐ Hydroge	en Sulfide (A4)			Loamy Mucky N	Mineral (F1)				allow Dark Surface (TF12)		
Stratifie	d Layers (A5)			Loamy Gleyed	Matrix (F2)			•	xplain in Remarks)		
✓ 2 cm M	. ,			Depleted Matrix	(F3)				•	,		
Deplete	d Below Dark Su	rface (A	11)	Redox Dark Su	rface (F6)							
☐ Thick D	ark Surface (A12	2)		Depleted Dark	Surface (F	7)				of hydrophytic vegetation and		
Sandy I	Mucky Mineral (S	1)		Redox Depress	ions (F8)			wetlan		ology must be present, unless turbed or problematic.		
5 cm M	ucky Peat or Pea	ıt (S3)							alot	tarboa or problematic.		
Restrictive I	Layer (if observe	ed):										
Type:	Filled mater	rial/grave	el				н	lydric Soi	l Prese	ent? Yes		
Depth (inch	es):	6						,				
HYDROLO)GY											
Wetland Hy	drology Indicato	rs:							Second	dary Indicators		
			required: ch	eck all that apply)						um of two is required)		
✓ Surface V	Vater (A1)			✓ Water-Stained	d Leaves (B9)		Surface Soil Cracks (B6)				
✓ High Wat	er Table (A2)			Aquatic Faun	a (B13)			☐ Drainage Patterns (B10)				
✓ Saturation	n (A3)			☐ True Aquatic	Plants (B1	4)			Dry	y-Season Water Table (C2)		
☐ Water Ma	arks (B1)			☐ Hydrogen Sul	fide Odor	(C1)			Cra	ayfish Burrows (C8)		
Sediment	Deposits (B2)			Oxidized Rhiz	ospheres	on Living	Roots (0	C3)		turation Visible on Aerial		
✓ Drift Depo				Presence of F	Reduced Ir	on (C4)				agery (C9)		
	or Crust (B4)			Recent Iron R			Soils (C6)			unted or Stressed Plants (D1) comorphic Position (D2)		
Iron Depo	, ,		(D.T)	☐ Thin Muck Su					=	C-Neutral Test (D5)		
	n Visible on Aeria			Gauge or We					V IA	io-Neutral Test (D3)		
	Vegetated Conca	ave Surra	ace (B8)	Other (Explain	n in Rema	rks)						
Field Obser Surface Wat		Yes	Depth (inche	es): <72								
Water Table	_		Depth (inche	·								
Saturation P	_		. ,	,			Watlan	d Hydrold	av Pr	asant? Van		
(includes cap		Yes	Depth (inche	es):0			wetian	u nyarolo	yy Pro	esent? Yes_		
Describe Re	corded Data (stre	eam gau	ge, monitorin	g well, aerial photo	s, previou	s inspect	ions), if a	available:				
Remarks:												
. tomanto.												

Project/Site: I-55 (FAI 55)	City/County: W	ill	_ Sampling Date 10/23/2014					
Applicant/Owner: IDOT District 1		State: IL	Sampling Point 23C					
Investigator(s): Tsai, Marcum, and Handel	Section, Township, Range: Sec. 1, T36N, R9E							
Landform (hillslope, terrace, etc.): Outwash plain	Local relief (concave, convex, none): None							
Slope (%): 0 Lat: _41.62732	Long: -88.16166	i	Datum: NAD 83					
Soil Map Unit Name: Orthents, loamy, rolling			ssification: U					
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes	(If no explain in Rem	narks.)					
Are Vegetation No , Soil No , or Hydrology No significantly	/ disturbed?	Are "Normal Cir	cumstances" present? Yes					
Are Vegetation No , Soil No , or Hydrology No naturally pr			ain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site map showing		int locations, trans	sects, important features, etc					
Hydrophytic Vegetation Present? Yes			<u> </u>					
Hydric Soil Present? Yes	Is the Sam	unled Area						
Wetland Hydrology Present? No		within a Wetland? No						
Remarks: Community type is non-native grassland.								
VEGETATION - Use scientific names of plants.								
Absolute Tree Stratum (Plot size: 30 ft radius) % Cover		atus	est worksheet:					
1		——— Number of Don	minant Species FACW, or FAC: 1 (A)					
2.		Total Number of	``,					
3.		Species Across	(D)					
4 5.		Percent of Don That are OBL	EACW or EAC: 100%					
O Capita a (Charle Charles (Diet sing 45 ft radius)	= Total Cover		(A/B)					
Sapling/Shrub Stratum (Plot size: 15 ft radius) 1.		Prevalence Ind	ver of: Multiply by:					
2.		OBL species	x 1 =					
3.		FACW species	x 2 =					
5.		FAC species	x 3 =					
0	= Total Cover	FACU species						
Herb Stratum (Plot size: 5 ft radius)	_	UPL species	x 5 =					
1. Poa pratensis 98 2. Taraxacum officinale 4	Yes FA		(A)(B)					
3. Trifolium repens 2	No FA	Prevai	ence Index =B/A =					
4.		Hydrophytic Ve	egetation Indicators					
5.			st for Hydrophytic Vegetation ce Test is >50%					
6. 7.			e Index is < or =3.01					
8.			gical Adaptations¹ (Provide supporting					
9. 10.		data in Rem	narks or on a separate sheet) Hydrophytic Vegetation¹ (Explain)					
Woody Vine Stratum (Plot size: 30 ft radius)	= Total Cover		ydric soil and wetland hydrology nt, unless disturbed or problematic.					
1		Hydrophytic						
20	= Total Cover	Vegetation Present?	Yes					
Remarks: (Include photo numbers here or on a separate sheet.)								

SOIL Sampling Point: 230 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Loc 10YR 3/2 10YR 4/4 0-6 98 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material/ gravel Type: **Hydric Soil Present?** Yes Depth (inches): 6 Remarks: This soil sample was not taken as normally would due to disturbance and compaction of filled material/gravel. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/Count	y: Will	Sampling [Date 10/23/201	4		
Applicant/Owner: IDOT District 1				State: IL Sampling F	Point 24A			
			Section, Township, Range: Sec. 2, T36N, R9E					
Landform (hillslope, terrace, etc.): Depression on floodp				concave, convex, none): Con				
		Long: -88.	16834	Datum	: NAD 83			
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slop		<u> </u>		NWI classification: U				
Are climatic/hydrologic conditions on the site typical for the		ear? Ye	es (If	no explain in Remarks.)				
Are Vegetation No , Soil No , or Hydrology No	-			Are "Normal Circumstances"	'nresent? '	/os		
					•			
Are Vegetation No , Soil No , or Hydrology No	_			(If needed, explain any answ				
SUMMARY OF FINDINGS - Attach site map	snowing	sampling	g point io	cations, transects, imp	ortant featu	ires, etc		
Hydrophytic Vegetation Present? Yes								
Hydric Soil Present? Yes			Sampled					
Wetland Hydrology Present? Yes		withi	n a Wetlan	d? Yes				
Remarks: Community type is wet floodplain forest. VEGETATION - Use scientific names of plants	5.							
	Absolute	Dominant	Indicator	Dominance Test workshee	et:			
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Specie				
1. Populus deltoides	65 10	Yes	FAC FACW	That are OBL, FACW, or FA	AC: 3	(A)		
2. Acer saccharinum 3.		No	FACW	Total Number of Dominant Species Across All Strata:	4	(D)		
4.				Percent of Dominant Specie		(B)		
5				That are OBL, FACW, or FA		(A/B)		
Sapling/Shrub Stratum (Plot size:15 ft radius)	75	= Total Co	ver	Prevalence Index workshe	et:	· · /		
1. Lonicera maackii	4	Yes	UPL	Total % Cover of:	Multiply by:	_		
2. Acer negundo	1	Yes	FAC	OBL species	x 1 =	_		
3. 4.				FACW species	x 2 =	_		
5.				FAC species	x 3 =	_		
		= Total Co	ver	FACU species	x 4 =	_		
Herb Stratum (Plot size: 5 ft radius)		_		UPL species	x 5 =	_		
1. Phalaris arundinacea	80	Yes		Column Totals	(A)	(B)		
Cirsium arvense Solanum carolinense	2 1	No No	FACU FACU	Prevalence Index =	:B/A =	_		
4. Vitis riparia	1	No	FACW	Hydrophytic Vegetation Inc	dicators			
5.				1-Rapid Test for Hydroph	-			
6.				2-Dominance Test is >50				
7. 8.						upporting		
9.				data in Remarks or on a				
10.				Problematic Hydrophytic	Vegetation¹ (Ex	(plain)		
Woody Vine Stratum (Plot size:30 ft radius)	84	= Total Co	ver	¹Indicators of hydric soil and				
1. Vitis riparia	2	No	FACW	must be present, unless dis	tarbed or proble	iiialit.		
2.				Hydrophytic Vegetation				
	2	_ = Total Co	ver	Present? Yes	<u>s</u>			
Remarks: (Include photo numbers here or on a separat	e sheet.)							

SOIL Sampling Point: 24A

Drofile Dog	orintian: /Danasit -	to the death	needed to document	the in di	note:	onfirm '	ho obocii i	of indicators \
Profile Des	scription: (Describe	to the depth i	needed to document	tne indi	cator or o	contirm t	ne absence	of indicators.)
Depth .	Matrix			<u>Features</u>	1			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 3/1	98	10YR 4/4	2	С	M	SIL	condict then 0.12 inches
12-26 26-31+	10YR 3/1 10YR 4/1	100 92	10YR 5/6	8	С	М	SIL	sandier than 0-12 inches
20-31+	101K 4/1	92	101K 3/0	0	C	IVI	SICL	
-								
¹ Type: C=Co	ncentration, D=Deple	tion, RM=Red	uced Matrix, MS=Mas	ked Sand	Grains.		² Lo	cation: PL=Pore Lining, M=Matrix
Hydric Soil I	ndicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gleyed N	/latrix (S4)		☐ Coas	st Prairie Redox (A16)
☐ Histic E	oipedon (A2)		Sandy Redox (S	S5)				Surface (S7)
Black H	stic (A3)		Stripped Matrix	(S6)				Manganese Masses (F12)
Hydroge	n Sulfide (A4)		Loamy Mucky M	lineral (F	1)			Shallow Dark Surface (TF12)
	d Layers (A5)		Loamy Gleyed N					r (Explain in Remarks)
	ıck (A10)		Depleted Matrix		,			(Explain in Nemarks)
	d Below Dark Surface	e (A11)	✓ Redox Dark Sur	. ,				
	ark Surface (A12)	,	Depleted Dark S	, ,	7)		3 Indicate	ors of hydrophytic vegetation and
	fucky Mineral (S1)		Redox Depressi		.,		wetland l	hydrology must be present, unless
	ucky Peat or Peat (S3	3)	Rodox Boprood	10110 (1 0)				disturbed or problematic.
		,						
_	.ayer (if observed):							
Type:			=			H	ydric Soil P	resent? Yes
Depth (inche	es):		_					
Remarks:								
HYDROLO	GY							
Wetland Hyd	Irology Indicators:						Sec	condary Indicators
Primary India	ators (minimum of or	ne is required:	check all that apply)				(mi	nimum of two is required)
Surface V	•	•	☐ Water-Stained	Leaves	(B9)			Surface Soil Cracks (B6)
=	er Table (A2)		Aquatic Fauna		()			Drainage Patterns (B10)
☐ Saturation	` '		True Aquatic F		4)			Dry-Season Water Table (C2)
Water Ma			Hydrogen Sulf					Crayfish Burrows (C8)
_	Deposits (B2)		Oxidized Rhize		. ,	Poots (C	רצי	Saturation Visible on Aerial
✓ Drift Depo			Presence of R			Noois (C	,3) <u> </u>	Imagery (C9)
	or Crust (B4)					\-:\- (OC)		Stunted or Stressed Plants (D1)
			Recent Iron R			olis (C6)		Geomorphic Position (D2)
Iron Depo	` '	(DZ)	Thin Muck Su					FAC-Neutral Test (D5)
_	No Visible on Aerial Im	. , ,	Gauge or Wel					The Neutral Test (Be)
	Vegetated Concave S	Бипасе (В8)	Other (Explain	in Rema	rks)			
Field Observ		5 "						
Surface Wate	er Present? No	Depth (inc	hes):					
Water Table	Present? No	Depth (inc	hes):					
Saturation Pr	esent? No	Depth (inc	hes):			Wetland	d Hydrology	y Present? Yes
(includes cap								
Describe Red	corded Data (stream	gauge, monito	ring well, aerial photos	s, previou	s inspect	ions), if a	vailable:	
Remarks:								

Project/Site: I-55 (FAI 55)		10/23/2014						
Applicant/Owner: IDOT District 1				State: IL Sampling Point 24B				
Investigator(s): Tsai, Marcum, and Handel		Sec	ion, Towns	ship, Range: Sec. 2, T36N, R9E				
Landform (hillslope, terrace, etc.): Outwash plain			ocal relief (d	concave, convex, none): None				
Slope (%): 0 Lat: 41.63272		Long: -88.1	6859	Datum: NA	D 83			
Soil Map Unit Name: NRCS mapped as Dunham silty cla		·		thent NWI classification: U				
Are climatic/hydrologic conditions on the site typical for th		•		no explain in Remarks.)				
Are Vegetation No , Soil No , or Hydrology No	-		`	Are "Normal Circumstances" pres	sent? Yes			
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answers in	<u> </u>			
SUMMARY OF FINDINGS - Attach site map	_		point lo					
Hydrophytic Vegetation Present? No	<u> </u>		•					
Hydric Soil Present? No		la di a	0	A				
Wetland Hydrology Present? No			Sampled A a Wetland					
Wettand Hydrology Present? No								
Remarks: Community type is upland forest. VEGETATION - Use scientific names of plants	·.							
	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Species	0 (1)			
Populus deltoides Morus alba	40 10	Yes No	FAC FAC	That are OBL, FACW, or FAC: Total Number of Dominant	3 (A)			
3. Prunus serotina	8	No	FACU	Species Across All Strata:	6 (B)			
4				Percent of Dominant Species	(5)			
5	58	= Total Cov	/er	That are OBL, FACW, or FAC:	(A/B)			
Sapling/Shrub Stratum (Plot size: 15 ft radius)			.01	Prevalence Index worksheet:				
1. Lonicera maackii	35	Yes	UPL		ultiply by:			
Rhamnus cathartica Morus alba	30	Yes No	FAC FAC	OBL species x 1				
4.		110	1710	FACW species x 2				
5.				FAC species x 3				
Llorb Stratum (Diet size) [ft andius)	67	= Total Co	/er		=			
Herb Stratum (Plot size: 5 ft radius) 1. Cryptotaenia canadensis	10	Yes	FAC	· ——				
Cryptotacrila cariaderisis Lonicera maackii	10	Yes	UPL	``	(B)			
3. Solidago canadensis	10	Yes	FACU	Prevalence Index =B/A =				
4. Rhamnus cathartica	5	No	FAC	Hydrophytic Vegetation Indicate 1-Rapid Test for Hydrophytic				
5. Pastinaca sativa 6. Phalaris arundinacea	1 1	No No	UPL FACW	2-Dominance Test is >50%	vegetation			
7.	<u>-</u>			3-Prevalence Index is < or =3.	.0¹			
δ				4-Morphological Adaptations ¹				
9.				data in Remarks or on a sepa	•			
10.				Problematic Hydrophytic Vege	` ' '			
Woody Vine Stratum (Plot size: 30 ft radius)	37	= Total Cov	/er	¹ Indicators of hydric soil and wetl must be present, unless disturbe				
1 2	0	= Total Co	/er	Hydrophytic Vegetation Present? No				
		- 10tai 00		riesent?				
Remarks: (Include photo numbers here or on a separate	e sneet.)							

SOIL

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

Pendoy Features

Depth	escription: (Describe t Matrix	aepui II		Features			0.5561106 0			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks		
0-8	10YR 3/1	100	,		• •		SIL			
8-13.5+	10YR 4/3	100					SIL			
Type: C=Co	oncentration, D=Deplet	ion, RM=Redu	iced Matrix, MS=Mas	ked Sand	Grains.		² Loca	tion: PL=Pore Lining, M=Matrix		
	Indicators:		Indicators for Problematic Hydric Soils ³ :							
Histoso	ol (A1)		Sandy Gleyed Matrix (S4)				Coast F	Prairie Redox (A16)		
☐ Histic Epipedon (A2)			Sandy Redox (S5)				Dark Surface (S7)			
☐ Black Histic (A3)			Stripped Matrix (S6)				☐ Iron-Manganese Masses (F12)			
Hydrogen Sulfide (A4)			Loamy Mucky Mineral (F1)				Very Shallow Dark Surface (TF12)			
Stratified Layers (A5)			☐ Loamy Gleyed Matrix (F2)				Other (Explain in Remarks)			
2 cm M	luck (A10)		Depleted Matrix	(F3)				,		
Deplete	ed Below Dark Surface	(A11)	Redox Dark Sur	face (F6)						
☐ Thick Dark Surface (A12)			☐ Depleted Dark Surface (F7)				³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Sandy Mucky Mineral (S1)			Redox Depressions (F8)							
5 cm M	lucky Peat or Peat (S3)					ui	sturbed or problematic.		
Restrictive	Layer (if observed):									
Туре:			_			H	ydric Soil Pre	sent? No		
Depth (inch	nes):		_			,	,			
YDROL	OGY									
	drology Indicators:						Secondary Indicators			
Primary Indi	icators (minimum of on	e is required: o	check all that apply)				(minir	num of two is required)		
Surface '	Water (A1)			l Leaves (B9)		□ S	urface Soil Cracks (B6)		
High Water Table (A2)			Aquatic Fauna	a (B13)				rainage Patterns (B10)		
Saturation (A3)			☐ True Aquatic Plants (B14)					ry-Season Water Table (C2)		
Water Marks (B1)			☐ Hydrogen Sulfide Odor (C1)				□ C	rayfish Burrows (C8)		
_	nt Deposits (B2)		Oxidized Rhizospheres on Living Roots					aturation Visible on Aerial		
☐ Drift Deposits (B3) ☐ Presence of Re					on (C4)			magery (C9)		
= -	t or Crust (B4)		Recent Iron R		n Tilled S	oils (C6)		tunted or Stressed Plants (D1)		
Iron Deposits (B5)			Thin Muck Surface (C7)				_	Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)			Gauge or Well Data (D9)				r	AC-Neutral Test (D5)		
_ Sparsely	Vegetated Concave S	urface (B8)	Other (Explain	in Remai	ks)					
Field Obse	rvations: ter Present? No	Depth (inch	nes):							
Nater Table	e Present? No	Depth (inch								
Saturation F		nes):		Wetland Hydrology Present? No						
•	ecorded Data (stream g	auge, monitor	ing well, aerial photo	s, previou	sinspect	ions), if a	vailable:			
Remarks:										

Project/Site: I-55 (FAI 55)			y: Will	Sampling I	Date 10/23/201	4				
Applicant/Owner: IDOT District 1				State: IL Sampling Point 25A						
	Section, Township, Range: Sec. 2, T36N, R9E									
Landform (hillslope, terrace, etc.): Hillslope										
				Datum						
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slo			0.0.	NWI classification: PI						
·		or? Vo	s (If		1010					
Are climatic/hydrologic conditions on the site typical for t	-		S (II	no explain in Remarks.)		.,				
Are Vegetation No, Soil No, or Hydrology No				Are "Normal Circumstances	•					
Are Vegetation No, Soil No, or Hydrology No	_naturally pr	oblematic?		(If needed, explain any answ	vers in Remarks	s.)				
SUMMARY OF FINDINGS - Attach site map	showing	sampling	point lo	cations, transects, imp	oortant feat	ures, etc				
Hydrophytic Vegetation Present? Yes										
Hydric Soil Present? No			Is the Sampled Area							
Wetland Hydrology Present? No			within a Wetland? No							
Remarks: Community type is mesic floodplain forest.										
VEGETATION - Use scientific names of plant	<u> </u>									
TESTIVITOR OUR CONTRIBUTION TRAINER OF PIGNA	Absolute	Dominant	Indicator	Dominance Test workshe						
Tree Stratum (Plot size: 30 ft radius	% Cover	Species?	Status	Number of Dominant Speci						
1. Crataegus mollis	30	Yes	FAC	That are OBL, FACW, or FA		(A)				
2. Salix fragilis	30	Yes	FAC	Total Number of Dominant						
3. Morus alba	15	Yes	FAC	Species Across All Strata:	6	(B)				
4 5.				Percent of Dominant Specie						
	= Total Co	ver	That are OBL, FACW, or FAC: 67% (A/							
Sapling/Shrub Stratum (Plot size: 15 ft radius)		=		Prevalence Index worksheet:						
1. Acer negundo	2 1	No	FAC	Total % Cover of:						
2. Lonicera maackii		No	UPL	OBL species	x 1 =	_				
3. 4. 5.				FACW species	x 2 =	_				
				FAC species	x 3 =					
	3	= Total Co	ver	FACU species	x 4 =	_				
Herb Stratum (Plot size: 5 ft radius)		.,		UPL species	x 5 =	_				
Eupatorium rugosum Hackelia virginiana	20 15	Yes Yes	FACU FACU	Column Totals	(A)	(B)				
Hackelia virginiana Phalaris arundinacea		Yes	FACW	Prevalence Index =	=B/A =	_				
4. Solidago canadensis		No	FACU	Hydrophytic Vegetation In	dicators					
5. Lonicera maackii		No	UPL	1-Rapid Test for Hydrop		1				
6. Polygonum punctatum		No	OBL	✓ 2-Dominance Test is >50%						
7. Polygonum scandens 8. Viola sororia		No No	FAC FACW	3-Prevalence Index is <						
8. Viola sororia 2 9.		INU	TACVV	4-Morphological Adaptat data in Remarks or on a	ions¹ (Provide s separate sheet	supporting)				
10.				Problematic Hydrophytic	•	,				
	63	= Total Cover		¹Indicators of hydric soil and wetland hydrology						
Woody Vine Stratum (Plot size: 30 ft radius) 1. Vitis riparia 4		=		must be present, unless disturbed or problematic.						
		No	FACW	Hydrophytic						
24			/Or	Vegetation Vo	s					
	= Total Co	v C I	Present? Tes							
Remarks: (Include photo numbers here or on a separa	te sheet.)									

SOIL Sampling Point: 25A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/2 0-12+ 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** No Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/Count	y: Will		Sampling Date 10/23/201	4
Applicant/Owner: IDOT District 1			State: IL	Sampling Point 26A	
Investigator(s): Tsai, Marcum, and Handel	Sec	tion, Townsh	nip, Range: Sec.	2, T36N, R9E	
Landform (hillslope, terrace, etc.): Depression on floodplain			oncave, convex, r		
Slope (%): < 1 Lat: 41.63264	Long: -88.1	16672		Datum: NAD 83	
Soil Map Unit Name: See Remarks				sification: PFO1C	_
Are climatic/hydrologic conditions on the site typical for this time of y			no explain in Rem	arks.)	
Are Vegetation No , Soil No , or Hydrology No significan			Are "Normal Circ	cumstances" present?	Yes
Are Vegetation No , Soil No , or Hydrology No naturally p	-			in any answers in Remarks	
SUMMARY OF FINDINGS - Attach site map showing			rations trans	ects important feat	iras atc
Hydrophytic Vegetation Present? Yes		, point io	Jations, trains	coto, important reatt	1100, 010
Hydric Soil Present? Yes		e Sampled <i>A</i> n a Wetland		es	
Wetland Hydrology Present? <u>Yes</u>		a wonana			
Remarks: Community type is wet meadow. NRCS mapped as Grundelein silt loam, 0-2 % slopes; revised to D	ounham silty o	elay loam, 0-2	2 % slopes		
VEGETATION - Use scientific names of plants.					
Absolute		Indicator	Dominance Tes	st worksheet:	
Tree Stratum (Plot size: 30 ft radius % Cove	r Species?	Status	Number of Dom		
1. 2.			That are OBL, F	· ———	(A)
3.			Species Across		(B)
4			Percent of Dom		(=)
5	= Total Co	ver	That are OBL, F	FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)			Prevalence Inde		
1.				er of: Multiply by:	_
2. 3.			OBL species FACW species	x 1 =	_
4.			FAC species		_
5			FACU species	x 3 = x 4 =	
Herb Stratum (Plot size: 5 ft radius)	_ = Total Co	ver	UPL species	x 5 =	
1. Phalaris arundinacea 95	Yes	FACW	Column Totals	(A)	(B)
2. Phragmites australis 10	No	FACW	Prevale	ence Index =B/A =	_` ′
3. Solidago gigantea 2 4. Cirsium arvense 1	No No	FACW FACU	Hydrophytic Ve	getation Indicators	
5.		1 700		for Hydrophytic Vegetation	1
6.			2-Dominance	e Test is >50%	
7			T	e Index is < or =3.01	
8				ical Adaptations¹ (Provide s arks or on a separate sheet	
10.			-	Hydrophytic Vegetation ¹ (Ex	
Woody Vine Stratum (Plot size: 30 ft radius) 108	_ = Total Co	ver		rdric soil and wetland hydro t, unless disturbed or proble	
1. 2.			Hydrophytic		
0	= Total Co	ver	Vegetation Present?	Yes	
Remarks: (Include photo numbers here or on a separate sheet.)	_]		
romaino. (illuluue piluto liuttibeto tiete ut utt a separate sileet.)					

SOIL Sampling Point: 26A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/4 0-12+ 97 3 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		_ City/Count	y: Will	Sa	ampling Date 10/23/20	14
Applicant/Owner: IDOT District 1				_ State: IL Sa	ampling Point 26B	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 2,	T36N, R9E	
Landform (hillslope, terrace, etc.): Outwash plain				concave, convex, non		
Slope (%): 0 Lat: 41.63307		Long: -88.	16660		Datum: NAD 83	
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slop		<u> </u>		NWI classific	<u> </u>	
Are climatic/hydrologic conditions on the site typical for th				no explain in Remark	·	
Are Vegetation No , Soil No , or Hydrology No					nstances" present?	Yes
Are Vegetation No , Soil No , or Hydrology No	_				any answers in Remark	
	_			, , ,	,	,
SUMMARY OF FINDINGS - Attach site map	showing	sampling	g point lo	cations, transec	ts, important feat	ures, etc
Hydrophytic Vegetation Present? No						
Hydric Soil Present? Yes		Is the	Sampled A	Area		
Wetland Hydrology Present? No		withi	n a Wetland	d? <u>No</u>	<u></u>	
Pomarke: Community type is chrubland						
Remarks: Community type is shrubland.						
VEGETATION - Use scientific names of plants						
VEGETATION - Ose scientific flames of plants	Absolute	Dominant	Indicator			
<u>Tree Stratum</u> (Plot size: 30 ft radius	% Cover	Species?	Status	Dominance Test v Number of Domina		
1.				That are OBL, FAC	•	(A)
2				Total Number of Do		` '
3.				Species Across All		(B)
4 5.				Percent of DominaThat are OBL, FAC		
	0	= Total Co	ver			(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	20	Voo	LIDI	Prevalence Index v		
1. Lonicera maackii 2.	20	Yes	UPL	Total % Cover of OBL species	of: <u>Multiply by:</u> x 1 =	
3.				FACW species	x 2 =	
4				FAC species	x 3 =	
5				FACU species	x 4 =	
Herb Stratum (Plot size: 5 ft radius)	20	_ = Total Co	ver	UPL species	x 5 =	
Phalaris arundinacea	40	Yes	FACW	Column Totals	(A)	(B)
2. Solidago canadensis	40	Yes	FACU	_	e Index =B/A =	(/
3. Coronilla varia	10	No	UPL	Hydrophytic Veget		
4. Poa pratensis 5.	10	No	FAC		r Hydrophytic Vegetatio	n
5				2-Dominance Te	· · · · · · · ·	
7.				3-Prevalence In	dex is < or =3.01	
8					Adaptations ¹ (Provide	
9.					s or on a separate shee	•
10		T / 10		,	drophytic Vegetation¹ (E	
Woody Vine Stratum (Plot size: 30 ft radius)	100	_ = Total Co	ver		c soil and wetland hydronless disturbed or problem	
1				Hydrophytic		
2		T-1-1 O-		Vegetation	No	
	0	_ = Total Co	ver	Present?		
Remarks: (Include photo numbers here or on a separate	e sheet.)					

113 SOIL Sampling Point: 26B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 0-6 10YR 3/1 100 SIL 95 SICL 6-12+ 10YR 3/1 10YR 4/4 5 С Μ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial

Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	City/County: Will	Samp	ling Date 10/23/2014	
Applicant/Owner: IDOT District 1		State: IL Samp	ling Point 27A	
Investigator(s): Tsai, Marcum, and Handel	Section, Townsh	nip, Range: Sec. 1, T36	N, R9E	
Landform (hillslope, terrace, etc.): Depression	Local relief (c	oncave, convex, none):	Concave	
Slope (%): < 1 Lat: 41.63803	Long: <u>-88.15424</u>	D	atum: NAD 83	
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slopes		NWI classificatio	n: PEMCd	
Are climatic/hydrologic conditions on the site typical for this time of ye	ar? Yes (If r	o explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No significantly	disturbed?	Are "Normal Circumstar	nces" present? Y	es
Are Vegetation No , Soil No , or Hydrology No naturally pro	oblematic?	(If needed, explain any	answers in Remarks.))
SUMMARY OF FINDINGS - Attach site map showing	sampling point lo	cations, transects,	important featur	res, etc
Hydrophytic Vegetation Present? Yes				
Hydric Soil Present? Yes	Is the Sampled A	ırea		
Wetland Hydrology Present? Yes	within a Wetland	? Yes		
Remarks: Community type is wet meadow.				
Remarks. Community type is wet meadow.				
VEGETATION - Use scientific names of plants.				
Absolute	Dominant Indicator	Dominance Test worl	vehoot:	
<u>Tree Stratum</u> (Plot size: 30 ft radius % Cover	Species? Status	Number of Dominant S		
1.		That are OBL, FACW,		(A)
3.		Total Number of Domir Species Across All Stra		(5)
4.		Percent of Dominant S		_ (B)
5	Total Cover	That are OBL, FACW,		_ (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)	= Total Cover	Prevalence Index work	ksheet:	
1.		Total % Cover of:		
2. 3.		OBL species	x 1 =	=
4.		FACW species	x 2 =	-
5		FAC species FACU species	x 3 = x 4 =	
Herb Stratum (Plot size: 5 ft radius)	= Total Cover	UPL species	x 5 =	Ē
1. Phragmites australis 75	Yes FACW	Column Totals		(B)
2. Phalaris arundinacea 20	Yes FACW	Prevalence Inc		- ` ′
3. Cirsium arvense 2 4.	No FACU	Hydrophytic Vegetatio	n Indicators	-
5.		✓ 1-Rapid Test for Hy		
6		2-Dominance Test i		
7. 8.		3-Prevalence Index		
9.			aptations¹ (Provide su on a separate sheet)	pporung
10.		Problematic Hydrop	hytic Vegetation¹ (Exp	olain)
Woody Vine Stratum (Plot size: 30 ft radius)	= Total Cover	¹ Indicators of hydric so must be present, unles		
1		Hydrophytic		-
	= Total Cover	Vegetation Present? –	Yes	
Remarks: (Include photo numbers here or on a separate sheet.)		<u> </u>		
, , ,				

SOIL Sampling Point: 27A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc N2.5 /0 10YR 4/4 0-24+ 95 MKSIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) ✓ Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: _I-55 (FAI 55)		City/County	y: Will	Sampling Date	10/23/2014
Applicant/Owner: IDOT District 1				State: IL Sampling Point	27B
Investigator(s): Tsai, Marcum, and Handel					
Landform (hillslope, terrace, etc.): Hillslope					
Slope (%): < 5 Lat: 41.63728				Datum: NA	D 83
Soil Map Unit Name: NRCS mapped as Dunham silty cla	y loam, 0-2	% slopes; re			
Are climatic/hydrologic conditions on the site typical for the				no explain in Remarks.)	
Are Vegetation No , Soil No , or Hydrology No	-			Are "Normal Circumstances" pres	sent? Yes
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answers in	
SUMMARY OF FINDINGS - Attach site map	_		point lo		
Hydrophytic Vegetation Present? Yes			· -		
Hydric Soil Present? No		ls the	Sampled	Aroa	
Wetland Hydrology Present? No			n a Wetland		
Remarks: Community type is upland forest.					
VEGETATION - Use scientific names of plants	5.				
•	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft radius</u>	% Cover	Species?	Status	Number of Dominant Species	
Fraxinus pennsylvanica var. subintegerrima	15	Yes	FACW	That are OBL, FACW, or FAC:	4 (A)
2. Morus alba 3.	15	Yes	FAC	Total Number of Dominant Species Across All Strata:	5 (5)
4.				Percent of Dominant Species	(B)
5		T-1-1-0		That are OBL, FACW, or FAC:	80% (A/B)
Sapling/Shrub Stratum (Plot size:15 ft radius)	30	= Total Co	ver	Prevalence Index worksheet:	, ,
1.					ultiply by:
2				OBL species x 1	
3 4				FACW species x 2	=
5.					=
	0	= Total Co	ver		=
Herb Stratum (Plot size: 5 ft radius)	20	Voo	EACW	UPL species x 5	
Phalaris arundinacea Cirsium arvense	30 20	Yes Yes	FACW FACU	Column Totals (A)	
3. Conium maculatum	20	Yes	FACW	Prevalence Index =B/A :	 -
4. Arctium minus	15	No	FACU	Hydrophytic Vegetation Indicate	
Phragmites australis Dipsacus laciniatus	15 10	No No	FACW UPL	☐ 1-Rapid Test for Hydrophytic ✓ 2-Dominance Test is >50%	vegetation
7. Nepeta cataria	8	No	FACU	3-Prevalence Index is < or =3	01
8. Brassica nigra	5	No	UPL	4-Morphological Adaptations	
9.				data in Remarks or on a sepa	rate sheet)
10				Problematic Hydrophytic Vego	etation¹ (Explain)
Woody Vine Stratum (Plot size:30 ft radius)	123	= Total Co	ver	¹Indicators of hydric soil and wetl	
1. Vitis riparia	2	No	FACW	must be present, unless disturbe	d or problematic.
2.				Hydrophytic Vegetation	
	2	= Total Co	ver	Present? Yes	
Remarks: (Include photo numbers here or on a separate	e sheet.)				
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	,				

SOIL Sampling Point: 27B Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % 1 oc^2 Texture Remarks Type 10YR 3/2 0-5 100 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Filled material/ gravel Type: **Hydric Soil Present?** No Depth (inches): 5 Remarks: This soil sample was not taken as normally would due to disturbance and compaction of filled material/gravel. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)		City/Count	y: Will	Sampling	Date 10/23/20	14
Applicant/Owner: IDOT District 1				State: IL Sampling	Point 27C	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 1, T36N, R	9E	
Landform (hillslope, terrace, etc.): Depression on floodp	lain		ocal relief (d	concave, convex, none): Coi	ncave	
Slope (%): < 1 Lat: 41.63434		Long: -88.1	5726	Datun	n: NAD 83	
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slop	es	<u> </u>		NWI classification: P		
Are climatic/hydrologic conditions on the site typical for the		ar? Ye	es (If	no explain in Remarks.)	_	
Are Vegetation No , Soil No , or Hydrology No	-			Are "Normal Circumstances	" nresent?	Yes
Are Vegetation No , Soil No , or Hydrology No				(If needed, explain any answ	-	
SUMMARY OF FINDINGS - Attach site map	_		noint lo			
Hydrophytic Vegetation Present? Yes			, po	<u> </u>		
Hydric Soil Present? Yes			Sampled A			
Wetland Hydrology Present? Yes		Within	Tu Welland	<u> </u>		
Remarks: Community type is wet floodplain forest. VEGETATION - Use scientific names of plants		Davisad	La Factor			
Tree Stratum (Plot size: 30 ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test workshe		
1. Salix nigra	30	Yes	OBL	 Number of Dominant Spec That are OBL, FACW, or F 		(A)
2. Morus alba	20	Yes	FAC	Total Number of Dominant		(//)
3. Populus deltoides	15	Yes	FAC	Species Across All Strata:	8	(B)
4 5	65	= Total Co	vor	Percent of Dominant Speci That are OBL, FACW, or F		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft radius)		_ = 10(a) C0	vei	Prevalence Index workshe	eet:	
1. Lonicera morrowii	3	Yes	FACU	Total % Cover of:	Multiply by:	<u> </u>
Morus alba Viburnum opulus	3	Yes Yes	FAC FAC	OBL species	x 1 =	
4.		165	FAC	FACW species	x 2 =	
5.				FAC species	x 3 =	<u>—</u>
Harl Objections (Distractor 5.6 H)	9	_ = Total Co	ver	FACU species	_ x 4 =	
Herb Stratum (Plot size: 5 ft radius) 1. Phalaris arundinacea	15	Voo	FACW	UPL species	x 5 =	(D)
Solidago gigantea	15	Yes Yes	FACW	Column Totals	(A)	(B)
3. Geum canadense	1	No	FAC	Prevalence Index :	-	
4. Rhamnus cathartica	1	No	FAC	Hydrophytic Vegetation In 1-Rapid Test for Hydrop		n
5. 6.				✓ 2-Dominance Test is >5	-	''
7.				3-Prevalence Index is <		
8				4-Morphological Adapta		
9				data in Remarks or on a		•
10				Problematic Hydrophytic	,	. ,
Woody Vine Stratum (Plot size: 30 ft radius)	32	_ = Total Co	ver	¹ Indicators of hydric soil an must be present, unless dis		
1. Vitis riparia	1	No	FACW	Hydrophytic		
2				- Vegetation	ae .	
	1	_ = Total Co	ver	Present?	73	
Remarks: (Include photo numbers here or on a separate	e sheet.)					

SOIL

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

Depth Matrix Redox Features

Depth .	 Matrix	•	Redox	Features				•
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-7	10YR 3/1	98	10YR 4/4	2	C	M	SIL	
7-13+	N 3/1	95	10YR 4/4	5	С	M	SICL	
								-
-								
¹ Type: C=Co	ncentration, D=Depletior	n, RM=Redu	iced Matrix, MS=Mas	sked Sand	Grains.		² Loca	ation: PL=Pore Lining, M=Matrix
Hydric Soil I	ndicators:						Indicators fo	r Problematic Hydric Soils ³ :
☐ Histosol	(A1)		Sandy Gleyed I	Matrix (S4))		Coast	Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Redox (S5)				Surface (S7)
Black H	istic (A3)		Stripped Matrix	(S6)				anganese Masses (F12)
☐ Hydroge	en Sulfide (A4)		Loamy Mucky N	Mineral (F1	I)		_	hallow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loamy Gleyed	Matrix (F2)		= '	(Explain in Remarks)
2 cm Mu	uck (A10)		Depleted Matrix	(F3)				(Explain in Romano)
Deplete	d Below Dark Surface (A	(11)	✓ Redox Dark Su	rface (F6)				
Thick D	ark Surface (A12)		Depleted Dark	Surface (F	7)		³ Indicator	s of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Redox Depress	ions (F8)			,	drology must be present, unless
5 cm Mu	ucky Peat or Peat (S3)			, ,			d	isturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:	Layor (ii oboor roa).						badaia Cail Dae	
Depth (inche	es):		_				lydric Soil Pre	esent? Yes
	, <u> </u>		=					
Remarks:								
HYDROLO	GY							
Wetland Hyd	drology Indicators:						Seco	ondary Indicators
_	ators (minimum of one i	s required:	check all that apply)				(mini	mum of two is required)
	Vater (A1)	•	Water-Stained	d Leaves (B9)			Surface Soil Cracks (B6)
=	er Table (A2)		Aquatic Fauna	`	,		=	Orainage Patterns (B10)
☐ Saturation			True Aquatic		4)			Ory-Season Water Table (C2)
☐ Water Ma			Hydrogen Sul	,	,			Crayfish Burrows (C8)
	Deposits (B2)		Oxidized Rhiz			Roots (Saturation Visible on Aerial
Drift Depo	. , ,		☐ Presence of F		-	(magery (C9)
Algal Mat	or Crust (B4)		Recent Iron R			oils (C6)	, 🗆 5	Stunted or Stressed Plants (D1)
☐ Iron Depo	` '		☐ Thin Muck Su			00 (00)	✓ (Geomorphic Position (D2)
	n Visible on Aerial Image	erv (B7)	Gauge or We	, ,			✓ F	FAC-Neutral Test (D5)
	Vegetated Concave Surf		Other (Explain					
Field Observ			Other (Explain	Till Rollia	ikoj			
Surface Wat		Depth (incl	nes):					
Water Table		Depth (incl	·					
Saturation P		Depth (incl	· -			Wetlan	d Hydrology I	Present? Yes
(includes cap		Dopar (into					a riyarology i	163
	corded Data (stream gau	ıge, monitor	ing well, aerial photo	s, previou	s inspecti	ons), if a	available:	
			-		-			
Remarks:								
Nemaiks.								

npling Date 10/24	4/2014
npling Point 27E	
36N, R9E	
: None	
Datum: NAD 83	}
ion: U	
)	
ances" present?	Yes
y answers in Ren	marks.)
s, important f	features, etc
orksheet:	
: Species /, or FAC:	2 (A)
ninant Strata:	2 (B)
Species V, or FAC: 1	100% (A/B)
orksheet:	
Multiply	•
x 1 =	
x 2 =	
x 3 = x 4 =	
x 5 =	
(A)	(B)
ndex =B/A =	
ion Indicators lydrophytic Vegett is >50%	etation
ex is < or =3.01	
daptations¹ (Provor on a separate s	vide supporting sheet)
ophytic Vegetatio	,
soil and wetland hess disturbed or p	
Yes	
soi	I and wetland

SOIL Sampling Point: 27E Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Texture Remarks Туре Loc 10YR 3/1 10YR 4/4 0-12+ 90 10 SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) ✓ Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ✓ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? No Depth (inches): Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: I-55 (FAI 55)	С	ity/County	/: VVIII		Sampling Date 10/23/201	4
Applicant/Owner: IDOT District 1				State: IL	Sampling Point 28A	
Investigator(s): Tsai, Marcum, and Handel		Sect	ion, Townsh	nip, Range: Sec	c. 1, T36N, R9E	
Landform (hillslope, terrace, etc.): Excavated depression		Lo	ocal relief (c	oncave, convex	, none): Concave	
Slope (%): < 1 Lat: 41.63380	Lo	ng: <u>-88.1</u>	5639		Datum: NAD 83	
Soil Map Unit Name: NRCS mapped as Dunham silty clay lo	oam, 0-2 % s	slopes; re	vised to Aqu	uent NWI clas	ssification: U	
Are climatic/hydrologic conditions on the site typical for this t	ime of year?	Ye	s (If r	no explain in Rer	marks.)	
Are Vegetation No , Soil No , or Hydrology No sig	gnificantly dis	sturbed?		Are "Normal Ci	rcumstances" present?	res
Are Vegetation No , Soil No , or Hydrology No na	turally proble	ematic?		(If needed, exp	lain any answers in Remarks	.)
SUMMARY OF FINDINGS - Attach site map sh	owing sa	mpling	point loc	cations tran	sects important featu	res etc
Hydrophytic Vegetation Present? Yes	g	p9	po	,		
Hydric Soil Present? Yes						
			Sampled A a Wetland		Yes	
Wetland Hydrology Present? Yes						
Remarks: Community type is wetland pond.						
VEGETATION - Use scientific names of plants.	harder B		Ladratas			
		ominant Species?	Indicator Status		est worksheet:	
1					minant Species FACW, or FAC:	(A)
Δ.				Total Number		(' ')
3. 4.				Species Acros		(B)
5.					minant Species FACW, or FAC:	(A /D)
Sapling/Shrub Stratum (Plot size:15 ft radius)		Total Cov	ver .		dex worksheet:	(A/B)
1					ver of: Multiply by:	
2				OBL species	x 1 =	_
J				FACW species		_
45.				FAC species	x 3 =	
	0 =	Total Cov	/er	FACU species		_
Herb Stratum (Plot size: 5 ft radius)				UPL species	x 5 =	_
Typha angustifolia Phalaris arundinacea	20 15	Yes Yes	OBL FACW	Column Totals		_(B)
3. Eleocharis acicularis	5	No	OBL		lence Index =B/A =	_
4					egetation Indicators st for Hydrophytic Vegetation	
5. 6.				-	st for Hydrophytic vegetation ce Test is >50%	
6. 7.				 —	ce Index is < or =3.01	
8					gical Adaptations1 (Provide s	
9. 10.				1 🗀	narks or on a separate sheet) C Hydrophytic Vegetation¹ (E)	
10	40	Total Car				
Woody Vine Stratum (Plot size: 30 ft radius)		Total Cov	/ei		nydric soil and wetland hydrol nt, unless disturbed or proble	
1.				Hydrophytic		
2		Total Cov	ver	Vegetation Present?	Yes	
Demonstra (Include alcoto control to				i icaciil!		
Remarks: (Include photo numbers here or on a separate sh	ieet.)					

123 SOIL Sampling Point: 28A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth (inches) Color (moist) % Color (moist) % Loc Texture Remarks Type 2.5Y 4/1 0-2 98 2.5Y 4/3 2 MKSIL 2-11 N 3/0 95 10YR 5/6 5 С Μ SIL 11-13+ 2.5Y 5/1 80 2.5Y 5/6 20 С Μ SIL Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) ☐ Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hvdrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless Sandy Mucky Mineral (S1) Redox Depressions (F8) disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: **Hydric Soil Present?** Yes Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two is required) Primary Indicators (minimum of one is required: check all that apply) ✓ Surface Water (A1) ✓ Water-Stained Leaves (B9) Surface Soil Cracks (B6) ✓ High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) ☐ True Aquatic Plants (B14) Saturation (A3) ☐ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ✓ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ✓ Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) ▼ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depth (inches): <72 Water Table Present? Yes Depth (inches): 0

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Wetland Hydrology Present?

Yes

Saturation Present?

Remarks:

(includes capillary fringe)

Yes

Depth (inches):

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

Project/Site: I-55 (FAI 55)		_ City/County	y: Will	Sampling [Date 10/23/20	14
Applicant/Owner: IDOT District 1				State: IL Sampling F	Point 28B/27D	
Investigator(s): Tsai, Marcum, and Handel		Sec	tion, Towns	hip, Range: Sec. 1, T36N, R9	9E	
Landform (hillslope, terrace, etc.): Hillslope		L	ocal relief (concave, convex, none): Con	vex	
Slope (%): < 5 Lat: 41.63382		Long: <u>-88.1</u>	5638	Datum	: NAD 83	
Soil Map Unit Name: Dunham silty clay loam, 0-2 % slop	oes			NWI classification: U		
Are climatic/hydrologic conditions on the site typical for the	nis time of ye	ear? Ye	s (If	no explain in Remarks.)		
Are Vegetation No , Soil No , or Hydrology No	_significantly	y disturbed?		Are "Normal Circumstances"	present?	Yes
Are Vegetation No , Soil No , or Hydrology No	_naturally pr	oblematic?		(If needed, explain any answ	ers in Remark	s.)
SUMMARY OF FINDINGS - Attach site map	showing	sampling	point lo	cations, transects, imp	ortant feat	ures, etc
Hydrophytic Vegetation Present? No						
Hydric Soil Present? No		Is the	Sampled A	Area		
Wetland Hydrology Present? No			n a Wetland			
Remarks: Community type is non-native grassland. VEGETATION - Use scientific names of plants						
Tree Stratum (Plot size: 30 ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test workshee		
1. Malus sp.	10	Yes	UPL	 Number of Dominant Species That are OBL, FACW, or FA 		(A)
2				Total Number of Dominant Species Across All Strata:	2	(F)
4. 5.				Percent of Dominant Specie That are OBL, FACW, or FA		()
Sapling/Shrub Stratum (Plot size:15 ft radius)	10	= Total Co	ver	Prevalence Index workshee	et:	(' '
1				Total % Cover of:		
2.				OBL species	x 1 =	
3. 4.				FACW species	x 2 =	
5				FAC species FACU species	x 3 =	
Herb Stratum (Plot size: 5 ft radius)	0	_ = Total Co	ver	UPL species	x 5 =	_
1. Poa pratensis	95	Yes	FAC	· —	(A)	(B)
2. Trifolium repens	15	No	FACU	Prevalence Index =	· -	
3. Taraxacum officinale 4.	5	No	FACU	Hydrophytic Vegetation Inc	dicators	<u> </u>
5.				1-Rapid Test for Hydroph	, ,	n
b				2-Dominance Test is >50		
7. 8.				☐ 3-Prevalence Index is < c☐ 4-Morphological Adaptati		supporting
9.				data in Remarks or on a	separate shee	et)
10				Problematic Hydrophytic	Vegetation ¹ (E	Explain)
Woody Vine Stratum (Plot size: 30 ft radius)		_ = Total Co	ver	¹ Indicators of hydric soil and must be present, unless dis		
1	0	= Total Co	ver	Hydrophytic Vegetation Present? No	<u>) </u>	
Remarks: (Include photo numbers here or on a separat All Illinois Malus species are given an indicator rating o	•					

SOIL Sampling Point: 28B/27D

Profile Description: (Describe to the depth i	needed to document	the indic	ator or	confirm t	the absen	ce of	indicators.)
Depth Matrix	Redox F	eatures					
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc²	Texture		Remarks
0-12+ 10YR 3/1 100					SIL		
¹ Type: C=Concentration, D=Depletion, RM=Red	upod Motriy MS-Mool	rod Cond	Croins		2	Locati	on: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:	uceu Matrix, Mo=Masi	Neu Sanu	Giailis.				Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed M	latrix (S4)					•
Histic Epipedon (A2)	Sandy Redox (S						airie Redox (A16) face (S7)
Black Histic (A3)	Stripped Matrix (_		iganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky M)		_		allow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed N					-	xplain in Remarks)
2 cm Muck (A10)	Depleted Matrix					ilei (L.	xpiaiii iii iteiriaiks)
Depleted Below Dark Surface (A11)	Redox Dark Surf						
Thick Dark Surface (A12)	Depleted Dark S	urface (F	7)		3 Indic	ators o	of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depression	•	,			d hydr	ology must be present, unless
5 cm Mucky Peat or Peat (S3)		, ,				dist	turbed or problematic.
Restrictive Layer (if observed):							
Type:					ludria Cail	Drag	omt? No
Depth (inches):	_			П	lydric Soil	Pres	ent? No
. , ,	_						
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:							dary Indicators
Primary Indicators (minimum of one is required:	check all that apply)				(minim	um of two is required)
Surface Water (A1)	Water-Stained	Leaves (E	39)		[Su	rface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna	(B13)			[Dra	ainage Patterns (B10)
Saturation (A3)	True Aquatic P	lants (B14	4)		[Dry	/-Season Water Table (C2)
☐ Water Marks (B1)	Hydrogen Sulfi	de Odor (C1)		[Cra	ayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizo		_	g Roots (C	C3) [turation Visible on Aerial
Drift Deposits (B3)	Presence of R	educed Iro	on (C4)		Г		agery (C9)
Algal Mat or Crust (B4)	Recent Iron Re	eduction in	Tilled S	Soils (C6)	l l		unted or Stressed Plants (D1)
Iron Deposits (B5)	☐ Thin Muck Sur	face (C7)			l r	_	omorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Gauge or Well	Data (D9))		l	FA	C-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)	Other (Explain	in Remar	ks)				
Field Observations:							
Surface Water Present? No Depth (inc	· —						
Water Table Present? No Depth (inc	· -						
Saturation Present? No Depth (inc	hes):			Wetlan	d Hydrolo	gy Pr	esent? No
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	ring wall parial phates	provious	incocc	tions) if a	wailahla:		
Describe Necorded Data (Stream gauge, monito	inig wen, aenai priotos	, previous	mspect	uons), n a	avaliable.		
Remarks:							

APPENDIX B

Wetland Plant Species Lists

Project Title: I-55 (FAI 55) Sequence No: 16050B

Site 2 - Wet meadow

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Phragmites australis	common reed	Н	FACW	1
Carex vulpinoidea	brown fox sedge	Н	FACW	2
Cyperus esculentus	field nut sedge	Н	FACW	0
Cyperus rivularis	brook flat sedge	Н	OBL	4
Echinochloa crusgalli	barnyard grass	Н	FACW	0
Festuca elatior*	tall fescue	Н	FACU	-
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Plantago lanceolata*	English plantain	Н	FACU	-
Plantago rugelii	red-stalked plantain	Н	FAC	0
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Rumex crispus*	curly dock	Н	FAC	-
Setaria glauca*	pigeon grass	Н	FAC	-
Trifolium repens*	white clover	Н	FACU	-
Vitis riparia	riverbank grape	HW	FACW	2
*Non-native species Speci	es is dominant in the denoted stratum	1	Mean C :	= 1.4
II II-ula T Tura C Caustina /c	51 1 147 147 1 177		501	2.0

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 3.9

Site 3 - Wet shrubland

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Salix interior	sandbar willow	HS	FACW	1
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Agrostis alba*	red top	Н	FACW	-
Apocynum cannabinum	dogbane	Н	FAC	4
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Rumex crispus*	curly dock	Н	FAC	-
*Non-native species Speci	es is dominant in the denoted stratum		Mean C =	= 2.0
II Hards T. Tura C. Cardina / C	51 1 147 147 1 1 17		501	2.5

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 3.5

Site 4 - Marsh

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phragmites australis	common reed	Н	FACW	1
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Agrostis alba*	red top	Н	FACW	-
Ambrosia trifida	giant ragweed	Н	FAC	0
Andropogon gerardii	big bluestem	Н	FAC	5
Asclepias incarnata	swamp milkweed	Н	OBL	4
Aster pilosus	hairy aster	Н	FACU	0
Bidens aristosa	swamp marigold	Н	FACW	3
Bidens frondosa	common beggar's ticks	Н	FACW	1
Carex vulpinoidea	brown fox sedge	Н	FACW	2
Cirsium arvense*	field thistle	Н	FACU	-
Cyperus esculentus	field nut sedge	Н	FACW	0
Dipsacus laciniatus*	cut-leaved teasel	Н	UPL	-
Echinochloa crusgalli	barnyard grass	Н	FACW	0
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Eryngium yuccifolium	rattlesnake master	Н	FAC	9
Eupatorium serotinum	late boneset	Н	FAC	0
Hordeum jubatum*	squirrel-tail grass	Н	FAC	-
Juncus effusus	common rush	Н	OBL	7
Juncus torreyi	Torrey's rush	Н	FACW	4
Panicum dichotomiflorum	fall panicum	Н	FACW	0
Panicum virgatum	prairie switch grass	Н	FAC	5
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Plantago lanceolata*	English plantain	Н	FACU	-
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Polygonum persicaria*	lady's thumb	Н	FACW	-
Rumex crispus*	curly dock	Н	FAC	-
Scirpus atrovirens	dark green rush	Н	OBL	4
Setaria glauca*	pigeon grass	Н	FAC	-
Silphium laciniatum	compass plant	Н	UPL	5
Solidago canadensis	Canada goldenrod	Н	FACU	1
Taraxacum officinale*	common dandelion	Н	FACU	-
*Non-native species Specie	s is dominant in the denoted stratum		Mean C :	= 2.6
	1 1			

Site 5 - Wet meadow

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phragmites australis	common reed	Н	FACW	1
Dipsacus laciniatus*	cut-leaved teasel	Н	UPL	-
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Eupatorium serotinum	late boneset	Н	FAC	0
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Rumex crispus*	curly dock	Н	FAC	-
Setaria glauca*	pigeon grass	Н	FAC	-
Solidago canadensis	Canada goldenrod	Н	FACU	1

*Non-native species Species is dominant in the denoted stratum Mean C = 1.0 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 2.0

Site 6 - Marsh

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phragmites australis	common reed	Н	FACW	1
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Agrostis alba*	red top	Н	FACW	-
Apocynum cannabinum	dogbane	Н	FAC	4
Aster pilosus	hairy aster	Н	FACU	0
Aster simplex	panicled aster	Н	FAC	3
Atriplex patula*	fat-hen saltbush	Н	FACW	-
Calamagrostis canadensis	blue joint grass	Н	OBL	3
Carex sp.	sedge	Н	-	-
Carex stricta	common tussock sedge	Н	OBL	5
Carex vulpinoidea	brown fox sedge	Н	FACW	2
Cicuta maculata	water hemlock	Н	OBL	6
Cirsium arvense*	field thistle	Н	FACU	-
Cyperus esculentus	field nut sedge	Н	FACW	0
Dipsacus laciniatus*	cut-leaved teasel	Н	UPL	-
Echinochloa crusgalli	barnyard grass	Н	FACW	0
Epilobium coloratum	cinnamon willow herb	Н	OBL	3
Eryngium yuccifolium	rattlesnake master	Н	FAC	9
Eupatorium serotinum	late boneset	Н	FAC	0
Geum laciniatum	rough avens	Н	FACW	5
Juncus torreyi	Torrey's rush	Н	FACW	4
Lonicera morrowii*	Morrow's honeysuckle	S	FACU	-
Mimulus ringens	monkey flower	Н	OBL	6
Panicum virgatum	prairie switch grass	Н	FAC	5
Penstemon digitalis	foxglove beard tongue	Н	FAC	4
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Rumex crispus*	curly dock	Н	FAC	-
Salix interior	sandbar willow	HS	FACW	1
Scirpus atrovirens	dark green rush	Н	OBL	4
Scirpus cyperinus	wool grass	Н	OBL	6
Setaria faberi*	giant foxtail	Н	FACU	-
Setaria glauca*	pigeon grass	Н	FAC	-
Solanum dulcamara*	bittersweet nightshade	Н	FAC	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago graminifolia	grass-leaved goldenrod	Н	FACW	4
Sonchus arvensis*	field sow thistle	Н	FACU	-
Sorghastrum nutans	Indian grass	Н	FACU	5
Spartina pectinata	prairie cord grass	Н	FACW	4
	necies is dominant in the denoted stratum		Mean C =	: 33

^{*}Non-native species Species is dominant in the denoted stratum Mean C = 3.3 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 16.9

Site 8 - Wet shrubland

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Salix interior	sandbar willow	H S	FACW	1
Acer negundo	box elder	Т	FAC	0
Alliaria petiolata*	garlic mustard	Н	FAC	-
Arctium minus*	common burdock	Н	FACU	-
Aster simplex	panicled aster	Н	FAC	3
Bidens frondosa	common beggar's ticks	Н	FACW	1
Cirsium arvense*	field thistle	Н	FACU	-
Elymus virginicus	Virginia wild rye	Н	FACW	4
Eupatorium rugosum	white snakeroot	Н	FACU	4
Eupatorium serotinum	late boneset	Н	FAC	0
Fraxinus pennsylvanica var.	green ash	Т	FACW	1
subintegerrima				
Geum canadense	white avens	Н	FAC	1
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Lonicera morrowii*	Morrow's honeysuckle	HS	FACU	-
Morus alba*	white mulberry	Т	FAC	-
Parthenocissus quinquefolia	Virginia creeper	HW	FACU	2
Phytolacca americana	pokeweed	Н	FACU	1
Pilea pumila	Canada clearweed	Н	FACW	5
Polygonum punctatum	smartweed	Н	OBL	6
Polygonum scandens	climbing false buckwheat	Н	FAC	1
Rhamnus cathartica*	common buckthorn	HS	FAC	-
Salix amygdaloides	peach-leaved willow	Т	FACW	5
Solanum carolinense*	horse nettle	Н	FACU	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago gigantea	late goldenrod	Н	FACW	4
Sonchus arvensis*	field sow thistle	Н	FACU	-
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Urtica procera	stinging nettle	Н	FACW	2
Verbena urticifolia	white vervain	Н	FAC	5
Vitis riparia	riverbank grape	W	FACW	2
	is dominant in the denoted stratum		Moan C	- 2/

*Non-native species Species is dominant in the denoted stratum Mean C = 2.4 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 10.9

Site 10 - Marsh

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Acer negundo	box elder	Т	FAC	0
Agrostis alba*	red top	Н	FACW	-
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Eupatorium altissimum	tall boneset	Н	UPL	0
Eupatorium perfoliatum	common boneset	Н	OBL	4
Festuca elatior*	tall fescue	Н	FACU	-
Fraxinus pennsylvanica var.	green ash	S	FACW	1
subintegerrima				
Juncus brachycarpus	short-fruited rush	Н	FACW	9
luncus dudleyi	Dudley's rush	Н	FACW	4
luncus torreyi	Torrey's rush	Н	FACW	4
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Myriophyllum exalbescens	spiked water milfoil	Н	OBL	7
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Phragmites australis	common reed	Н	FACW	1
Populus deltoides	eastern cottonwood	Т	FAC	2
Rhamnus cathartica*	common buckthorn	ST	FAC	-
Salix amygdaloides	peach-leaved willow	T	FACW	5
Salix nigra	black willow	HS	OBL	4
Scirpus atrovirens	dark green rush	Н	OBL	4
Scirpus validus var. creber	soft-stem bulrush	Н	OBL	5
Solidago canadensis	Canada goldenrod	Н	FACU	1
Typha latifolia	broad-leaved cattail	Н	OBL	1
Vitis riparia	riverbank grape	W	FACW	2
	is dominant in the denoted stratum		Mean C =	
H = Herb, T = Tree, S = Sapling/Sh	rub, W = Woody Vine		FQI :	= 13.1

Site 11 - Wet meadow

Scientific Name	Common Name	Strata	Wetland Indicator Status	Coefficient of Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Acer negundo	box elder	Н	FAC	0
Apocynum cannabinum	dogbane	Н	FAC	4
Bromus inermis*	Hungarian brome	Н	FACU	-
Cirsium arvense*	field thistle	Н	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Dipsacus laciniatus*	cut-leaved teasel	Н	UPL	-
Morus alba*	white mulberry	T	FAC	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago graminifolia	grass-leaved goldenrod	Н	FACW	4
Vitis riparia	riverbank grape	HW	FACW	2
*Non-native species Species is dominant in the denoted stratum			Mean C =	2.8
H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine			FQI =	6.9

Site 12 - Wet floodplain forest

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Acer saccharinum	silver maple	HT	FACW	0
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Pilea pumila	Canada clearweed	Н	FACW	5
Polygonum punctatum	smartweed	Н	OBL	6
Acer negundo	box elder	T	FAC	0
Aster lateriflorus	side-flowering aster	Н	FACW	4
Aster simplex	panicled aster	Н	FAC	3
Bidens frondosa	common beggar's ticks	Н	FACW	1
Celtis occidentalis	hackberry	Т	FAC	3
Cicuta maculata	water hemlock	Н	OBL	6
Crataegus mollis	downy hawthorn	T	FAC	2
Cryptotaenia canadensis	honewort	Н	FAC	2
Elymus virginicus	Virginia wild rye	Н	FACW	4
Eupatorium rugosum	white snakeroot	Н	FACU	4
Fraxinus pennsylvanica var.	green ash	HST	FACW	1
subintegerrima				
Geum canadense	white avens	Н	FAC	1
Glyceria striata	fowl manna grass	Н	OBL	4
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Morus alba*	white mulberry	T	FAC	-
Parthenocissus quinquefolia	Virginia creeper	W	FACU	2
Polygonum virginianum	Virginia knotweed	Н	FAC	2
Quercus bicolor	swamp white oak	S	FACW	6
Rhamnus cathartica*	common buckthorn	S	FAC	-
Ribes americanum	wild black currant	S	FACW	7
Ribes missouriense	Missouri gooseberry	S	UPL	5
Rosa multiflora*	Japanese rose	S	FACU	-
Sambucus canadensis	common elder	Н	FACW	1
Sanicula gregaria	clustered black snakeroot	Н	FAC	2
Teucrium canadense	germander	Н	FACW	3
Urtica procera	stinging nettle	Н	FACW	2
Viola sororia	common blue violet	Н	FACW	3
Vitis riparia	riverbank grape	W	FACW	2

^{*}Non-native species Species is dominant in the denoted stratum Mean C = 3.0 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 15.6

Site 14 - Wet floodplain forest

		_	Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Acer saccharinum	silver maple	HST	FACW	0
Cornus obliqua	pale dogwood	S	FACW	6
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Acalypha rhomboidea	three-seeded mercury	Н	FACU	0
Amorpha fruticosa	false indigo bush	S	FACW	6
Apocynum cannabinum	dogbane	Н	FAC	4
Bidens frondosa	common beggar's ticks	Н	FACW	1
Carex sp.	sedge	Н	-	-
Catalpa speciosa*	cigar tree	S	FACU	-
Cirsium arvense*	field thistle	Н	FACU	-
Daucus carota*	Queen Anne's lace	Н	UPL	-
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Epilobium coloratum	cinnamon willow herb	Н	OBL	3
Eupatorium serotinum	late boneset	Н	FAC	0
Lycopus americanus	common water horehound	Н	OBL	5
Melilotus sp.*	sweet clover	Н	D	-
Mentha arvensis var. villosa	wild mint	Н	FACW	5
Oenothera biennis	common evening primrose	Н	FACU	0
Phragmites australis	common reed	Н	FACW	1
Potentilla norvegica	rough cinquefoil	Н	FAC	0
Rhamnus cathartica*	common buckthorn	S	FAC	-
Rubus sp.	blackberry	Н	-	-
Salix nigra	black willow	Т	OBL	4
Scutellaria lateriflora	mad-dog skullcap	Н	OBL	5
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Ulmus americana	American elm	Т	FACW	3
*Non native species Cresies	is dominant in the denoted street.		Moon C	- 2.C

^{*}Non-native species Species is dominant in the denoted stratum Mean C = 2.6 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 10.8

When possible, the wetland indicator status has been determined for taxa identified only to the genus level (D = non-hydrophytic; H= hydrophytic).

FQI =

10.7

Site 17 - Wetland pond

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phragmites australis	common reed	Н	FACW	1
Aster simplex	panicled aster	Н	FAC	3
Bidens frondosa	common beggar's ticks	Н	FACW	1
Carex sp.	sedge	Н	-	-
Cornus obliqua	pale dogwood	S	FACW	6
Coronilla varia*	crown vetch	Н	UPL	-
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Equisetum arvense	common horsetail	Н	FAC	0
Eupatorium serotinum	late boneset	Н	FAC	0
Fragaria virginiana	wild strawberry	Н	FACU	1
Juncus dudleyi	Dudley's rush	Н	FACW	4
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Lycopus americanus	common water horehound	Н	OBL	5
Morus alba*	white mulberry	Т	FAC	-
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Potamogeton nodosus	American pondweed	Н	OBL	7
Rhamnus cathartica*	common buckthorn	S	FAC	-
Rosa multiflora*	Japanese rose	S	FACU	-
Salix amygdaloides	peach-leaved willow	ST	FACW	5
Solanum dulcamara*	bittersweet nightshade	Н	FAC	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago gigantea	late goldenrod	Н	FACW	4
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Typha latifolia	broad-leaved cattail	Н	OBL	1
Vitis riparia	riverbank grape	Н	FACW	2
*Non-native species	Species is dominant in the denoted stratum		Mean C	= 2.6
	and the second s			

Site 18 - Wet shrubland

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Phragmites australis	common reed	Н	FACW	1
Salix interior	sandbar willow	S	FACW	1
Asclepias incarnata	swamp milkweed	Н	OBL	4
Bidens cernua	nodding bur marigold	Н	OBL	5
Cornus obliqua	pale dogwood	S	FACW	6
Coronilla varia*	crown vetch	Н	UPL	-
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Lythrum salicaria*	purple loosestrife	Н	OBL	-
Mimulus ringens	monkey flower	Н	OBL	6
Populus deltoides	eastern cottonwood	S	FAC	2
Salix amygdaloides	peach-leaved willow	S	FACW	5
Salix nigra	black willow	Т	OBL	4
*Non native species	Consider to describe out to the deposted street		MassaC	2.6

*Non-native species Species is dominant in the denoted stratum Mean C = 3.6 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 11.4

Site 19 - Wet meadow

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Phragmites australis	common reed	Н	FACW	1
Alisma subcordatum	common water plantain	Н	OBL	4
Apocynum cannabinum	dogbane	Н	FAC	4
Bidens frondosa	common beggar's ticks	Н	FACW	1
Cirsium arvense*	field thistle	Н	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Eupatorium serotinum	late boneset	Н	FAC	0
Juncus dudleyi	Dudley's rush	Н	FACW	4
Juncus torreyi	Torrey's rush	Н	FACW	4
Lycopus americanus	common water horehound	Н	OBL	5
Mimulus ringens	monkey flower	Н	OBL	6
Panicum capillare	old witch grass	Н	FAC	1
Panicum implicatum	panic grass	Н	FAC	2
Populus deltoides	eastern cottonwood	Н	FAC	2
Potamogeton nodosus	American pondweed	Н	OBL	7
Salix interior	sandbar willow	S	FACW	1
Salix nigra	black willow	Т	OBL	4
Scirpus pendulus	red bulrush	Н	OBL	4
Scirpus validus var. creber	soft-stem bulrush	Н	OBL	5
Solidago canadensis	Canada goldenrod	Н	FACU	1
*Non-native species Specie	s is dominant in the denoted stratum		Mean C :	= 3.2
H = Herb. T = Tree. S = Sapling/Sh	H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine			= 14.3

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 14.3

Site 20 - Wet floodplain forest

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Acer saccharinum	silver maple	T	FACW	0
Populus deltoides	eastern cottonwood	T	FAC	2
Acer negundo	box elder	HS	FAC	0
Lonicera maackii*	Amur honeysuckle	HS	UPL	-
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Ribes americanum	wild black currant	S	FACW	7
Thalictrum dasycarpum	purple meadow rue	Н	FACW	5
*Non-native species	Species is dominant in the denoted stratum		Mean C =	= 2.8
H = Herb, T = Tree, S = Sa	pling/Shrub, W = Woody Vine		FQI :	= 6.3

Site 21 - Wet shrubland

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Salix interior	sandbar willow	S	FACW	1
Cirsium arvense*	field thistle	Н	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Dipsacus laciniatus*	cut-leaved teasel	Н	UPL	-
Eupatorium serotinum	late boneset	Н	FAC	0
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Morus alba*	white mulberry	Т	FAC	-
Phragmites australis	common reed	Н	FACW	1
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Populus deltoides	eastern cottonwood	Т	FAC	2
Rhamnus cathartica*	common buckthorn	S	FAC	-
Ribes americanum	wild black currant	S	FACW	7
Rubus occidentalis	black raspberry	S	UPL	2
Salix amygdaloides	peach-leaved willow	S	FACW	5
Salix nigra	black willow	Т	OBL	4
Solidago canadensis	Canada goldenrod	Н	FACU	1
Taraxacum officinale*	common dandelion	Н	FACU	-
Teucrium canadense	germander	Н	FACW	3
*Non-native species Sp	ecies is dominant in the denoted stratum		Mean C =	= 2.9

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 9.6

Site 22 - Wet meadow

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Cirsium arvense*	field thistle	Н	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Daucus carota*	Queen Anne's lace	Н	UPL	-
Morus alba*	white mulberry	Т	FAC	-
Polygonum coccineum	scarlet smartweed	Н	OBL	4
Salix interior	sandbar willow	S	FACW	1
Sambucus canadensis	common elder	S	FACW	1
Solidago canadensis	Canada goldenrod	Н	FACU	1
*Non-native species	Species is dominant in the denoted stratum		Mean C =	2.6

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 5.8

Site 23 - Wet shrubland/Wetland pond

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Salix interior	sandbar willow	HS	FACW	1
Alisma subcordatum	common water plantain	Н	OBL	4
Apocynum cannabinum	dogbane	Н	FAC	4
Asparagus officinalis*	garden asparagus	Н	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Eleocharis acicularis	needle spike rush	Н	OBL	2
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Equisetum hyemale	tall scouring rush	Н	FACW	3
Eupatorium serotinum	late boneset	Н	FAC	0
Juncus sp.	rush	Н	Н	-
Lemna minor	small duckweed	Н	OBL	5
Morus alba*	white mulberry	ST	FAC	-
Oenothera biennis	common evening primrose	Н	FACU	0
Panicum virgatum	prairie switch grass	Н	FAC	5
Phragmites australis	common reed	Н	FACW	1
Populus deltoides	eastern cottonwood	ST	FAC	2
Potamogeton foliosus	leafy pondweed	Н	OBL	7
Potamogeton pectinatus	comb pondweed	Н	OBL	5
Ranunculus flabellaris	yellow water buttercup	Н	OBL	7
Rhamnus cathartica*	common buckthorn	S	FAC	-
Salix amygdaloides	peach-leaved willow	ST	FACW	5
Salix eriocephala	heart-leaved willow	S	FACW	5
Salix nigra	black willow	Т	OBL	4
Scirpus validus var. creber	soft-stem bulrush	Н	OBL	5
Solanum dulcamara*	bittersweet nightshade	Н	FAC	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago gigantea	late goldenrod	Н	FACW	4
Sonchus asper*	prickly sow thistle	Н	FACU	-
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Typha latifolia	broad-leaved cattail	Н	OBL	1
Viburnum opulus*	European high-bush cranberry	S	FAC	-
Vitis riparia	riverbank grape	HW	FACW	2

^{*}Non-native species Species is dominant in the denoted stratum Mean C = 3.3 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 16.4

When possible, the wetland indicator status has been determined for taxa identified only to the genus level (D = non-hydrophytic; H= hydrophytic).

Site 24 - Wet floodplain forest

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Populus deltoides	eastern cottonwood	Т	FAC	2
Acer negundo	box elder	ST	FAC	0
Acer saccharinum	silver maple	ST	FACW	0
Alliaria petiolata*	garlic mustard	Н	FAC	-
Ambrosia trifida	giant ragweed	Н	FAC	0
Arctium minus*	common burdock	Н	FACU	-
Carex sp.	sedge	Н	-	-
Carex tribuloides	awl-fruited oval sedge	Н	OBL	3
Celtis occidentalis	hackberry	Н	FAC	3
Cirsium arvense*	field thistle	Н	FACU	-
Cryptotaenia canadensis	honewort	Н	FAC	2
Elymus virginicus	Virginia wild rye	Н	FACW	4
Eupatorium rugosum	white snakeroot	Н	FACU	4
Galium aparine	annual bedstraw	Н	FACU	1
Geum canadense	white avens	Н	FAC	1
Hackelia virginiana	stickseed	Н	FACU	0
Helianthus grosseserratus	sawtooth sunflower	Н	FACW	2
Impatiens capensis	spotted touch-me-not	Н	FACW	3
Lonicera maackii*	Amur honeysuckle	HS	UPL	-
Osmorhiza longistylis	anise root	Н	FACU	3
Pilea pumila	Canada clearweed	Н	FACW	5
Polygonum punctatum	smartweed	Н	OBL	6
Rhamnus cathartica*	common buckthorn	S	FAC	-
Rhus radicans	poison ivy	Н	FAC	2
Rosa multiflora*	Japanese rose	S	FACU	-
Sambucus canadensis	common elder	S	FACW	1
Solanum carolinense*	horse nettle	Н	FACU	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Urtica procera	stinging nettle	Н	FACW	2
Vitis riparia	riverbank grape	HW	FACW	2

^{*}Non-native species Species is dominant in the denoted stratum Mean C = 2.1 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 10.0

Site 26 - Wet meadow

		_	Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Phragmites australis	common reed	Н	FACW	1
Acer negundo	box elder	ST	FAC	0
Acer saccharinum	silver maple	Т	FACW	0
Cirsium arvense*	field thistle	Н	FACU	-
Cornus obliqua	pale dogwood	S	FACW	6
Crataegus mollis	downy hawthorn	Т	FAC	2
Daucus carota*	Queen Anne's lace	Н	UPL	-
Elymus virginicus	Virginia wild rye	Н	FACW	4
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Morus alba*	white mulberry	Т	FAC	-
Poa pratensis*	Kentucky blue grass	Н	FAC	-
Populus deltoides	eastern cottonwood	Т	FAC	2
Rosa multiflora*	Japanese rose	S	FACU	-
Salix alba*	white willow	Т	FACW	-
Salix fragilis*	crack willow	Т	FAC	-
Salix nigra	black willow	Т	OBL	4
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago gigantea	late goldenrod	Н	FACW	4
Teucrium canadense	germander	Н	FACW	3
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Typha latifolia	broad-leaved cattail	Н	OBL	1
Urtica procera	stinging nettle	Н	FACW	2
Vitis riparia	riverbank grape	Н	FACW	2
*Nlaw wating awasing (Consider the description that the description the description		N.4 C	2.2

*Non-native species Species is dominant in the denoted stratum Mean C = 2.2 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 8.5

Site 27 - Wet meadow/Wet shrubland

Scientific Name	Common Name	Ctuata	Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Phragmites australis	common reed	Н	FACW	1
Salix interior	sandbar willow	HS	FACW	1
(Salix matsudana)	twisted willow	Т	FAC	-
Acer negundo	box elder	HST	FAC	0
Acorus calamus	sweet flag	Н	OBL	7
Agrostis alba*	red top	Н	FACW	-
Apocynum cannabinum	dogbane	Н	FAC	4
Aster praealtus	willow aster	Н	FACW	9
Aster simplex	panicled aster	Н	FAC	3
Brassica nigra*	black mustard	Н	UPL	-
Carex tribuloides	awl-fruited oval sedge	Н	OBL	3
Cirsium arvense*	field thistle	Н	FACU	-
Conium maculatum*	poison hemlock	Н	FACW	-
Cornus obliqua	pale dogwood	S	FACW	6
Daucus carota*	Queen Anne's lace	Н	UPL	-
Dipsacus laciniatus*	cut-leaved teasel	Н	UPL	-
Eleocharis acicularis	needle spike rush	Н	OBL	2
Eleocharis erythropoda	red-rooted spike rush	Н	OBL	2
Elymus virginicus	Virginia wild rye	Н	FACW	4
Epilobium coloratum	cinnamon willow herb	Н	OBL	3
Eupatorium serotinum	late boneset	Н	FAC	0
Fraxinus pennsylvanica var.	green ash	Т	FACW	1
subintegerrima	G			
Geum canadense	white avens	Н	FAC	1
Glechoma hederacea*	ground ivy	Н	FACU	-
Hackelia virginiana	stickseed	Н	FACU	0
Helianthus grosseserratus	sawtooth sunflower	H	FACW	2
Juncus dudleyi	Dudley's rush	H	FACW	4
Juncus torreyi	Torrey's rush	н	FACW	4
Lemna minor	small duckweed	н	OBL	5
Lonicera maackii*	Amur honeysuckle	S	UPL	-
Lonicera marrowii*	Morrow's honeysuckle	S	FACU	_
Ludwigia palustris var. americana	marsh purslane	Н	OBL	5
Lycopus americanus	common water horehound	 Н	OBL	5
Mentha arvensis var. villosa	wild mint	 Н	FACW	5
Morus alba*	white mulberry	ST	FAC	-
Panicum capillare	old witch grass	H	FAC	1
Panicum virgatum	prairie switch grass	H	FAC	5
Poa pratensis*	Kentucky blue grass	Н	FAC	
Polygonum coccineum	scarlet smartweed	П Н	OBL	-
· -	smartweed			4
Polygonum punctatum		H T	OBL	6
Populus deltoides	eastern cottonwood	T	FAC	2
Pyrus calleryana*	ornamental pear	S	UPL	-
Rhamnus cathartica*	common buckthorn	HS	FAC	-
Rorippa palustris var. fernaldiana	marsh yellow cress	H	OBL	4
Rumex crispus*	curly dock	Н	FAC	

Species list continues on next page.

Site 27 - Wet meadow/Wet shrubland (Continued)

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Salix alba*	white willow	Т	FACW	-
Salix nigra	black willow	ST	OBL	4
Sambucus canadensis	common elder	S	FACW	1
Scirpus atrovirens	dark green rush	Н	OBL	4
Setaria faberi*	giant foxtail	Н	FACU	-
Setaria glauca*	pigeon grass	Н	FAC	-
Solanum dulcamara*	bittersweet nightshade	Н	FAC	-
Solidago canadensis	Canada goldenrod	Н	FACU	1
Solidago gigantea	late goldenrod	Н	FACW	4
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Typha latifolia	broad-leaved cattail	Н	OBL	1
Ulmus americana	American elm	HS	FACW	3
Urtica procera	stinging nettle	Н	FACW	2
Verbena hastata	blue vervain	Н	FACW	4
Viburnum opulus*	European high-bush cranberry	S	FAC	-
Vitis riparia	riverbank grape	HW	FACW	2
*Non-native species Species is dominant in the denoted stratum			Mean C	= 3.1
H - Herh T - Tree S - Sanling	H - Herb T - Tree S - Sanling/Shrub W - Woody Vine		FOL	- 10.7

H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 19.7

Site 28 - Wetland pond

			Wetland	Coefficient of
Scientific Name	Common Name	Strata	Indicator Status	Conservatism
Typha angustifolia	narrow-leaved cattail	Н	OBL	1
Echinochloa crusgalli	barnyard grass	Н	FACW	0
Eleocharis acicularis	needle spike rush	Н	OBL	2
Ludwigia palustris var. americana	marsh purslane	Н	OBL	5
Phalaris arundinacea*	reed canary grass	Н	FACW	-
Polygonum persicaria*	lady's thumb	Н	FACW	-
Salix nigra	black willow	ST	OBL	4
Scirpus validus var. creber	soft-stem bulrush	Н	OBL	5
Typha latifolia	broad-leaved cattail	Н	OBL	1
*Non native species Crecies is	dominant in the dometed streeture		Maan C	2.6

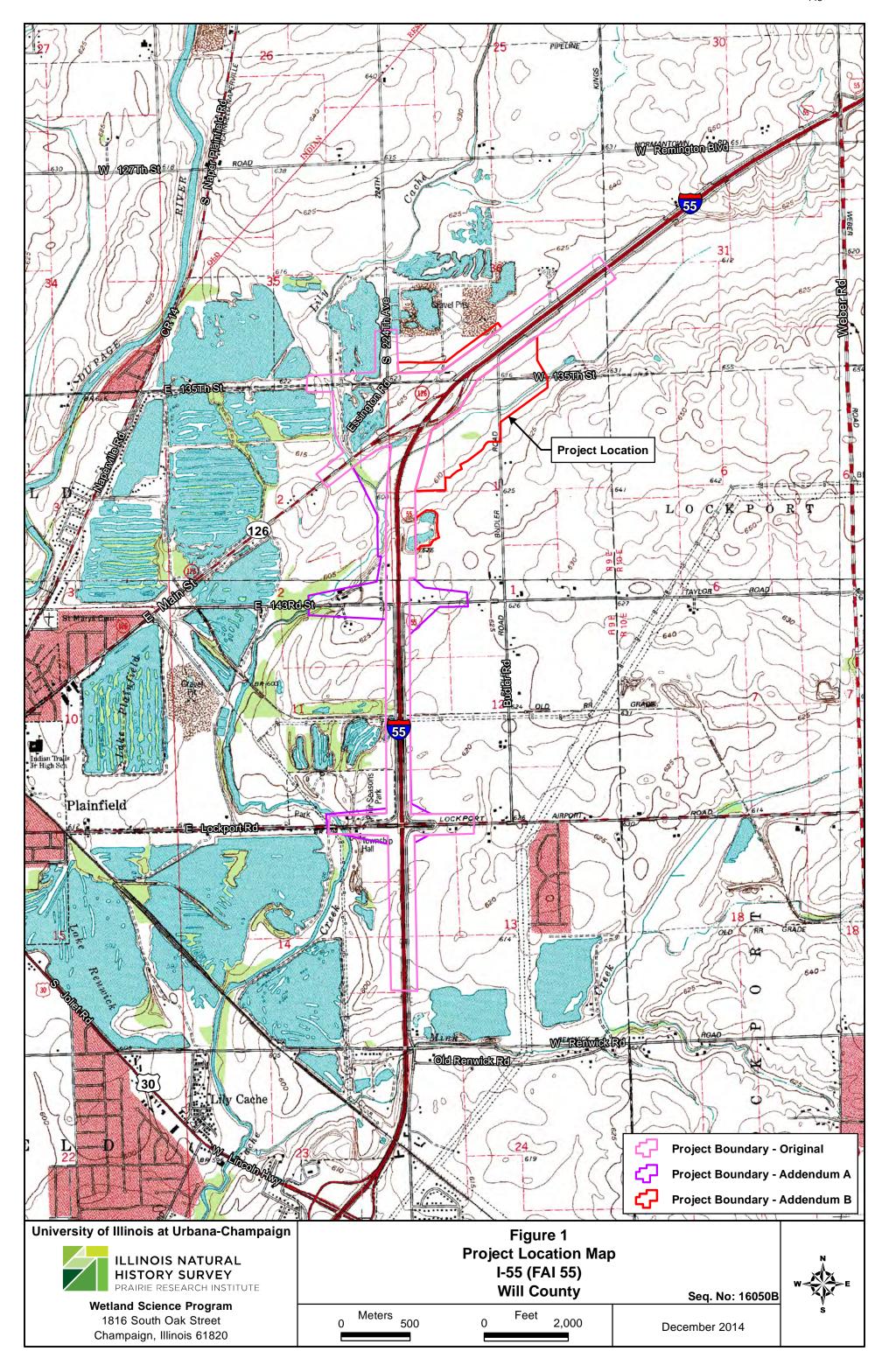
^{*}Non-native species Species is dominant in the denoted stratum Mean C = 2.6 H = Herb, T = Tree, S = Sapling/Shrub, W = Woody Vine FQI = 6.8

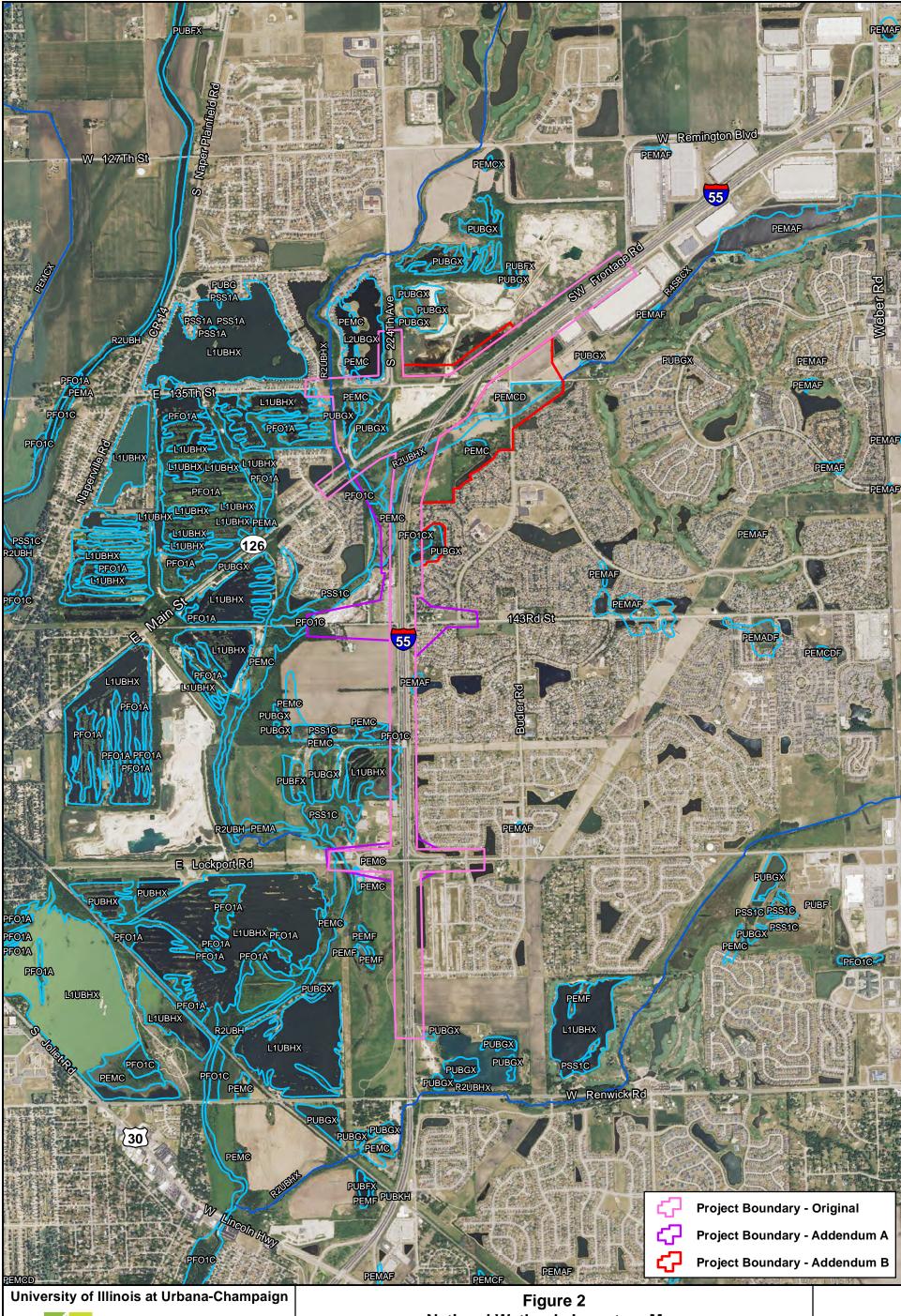
^{&#}x27;()' = Species is not listed in Swink and Wilhelm 1994

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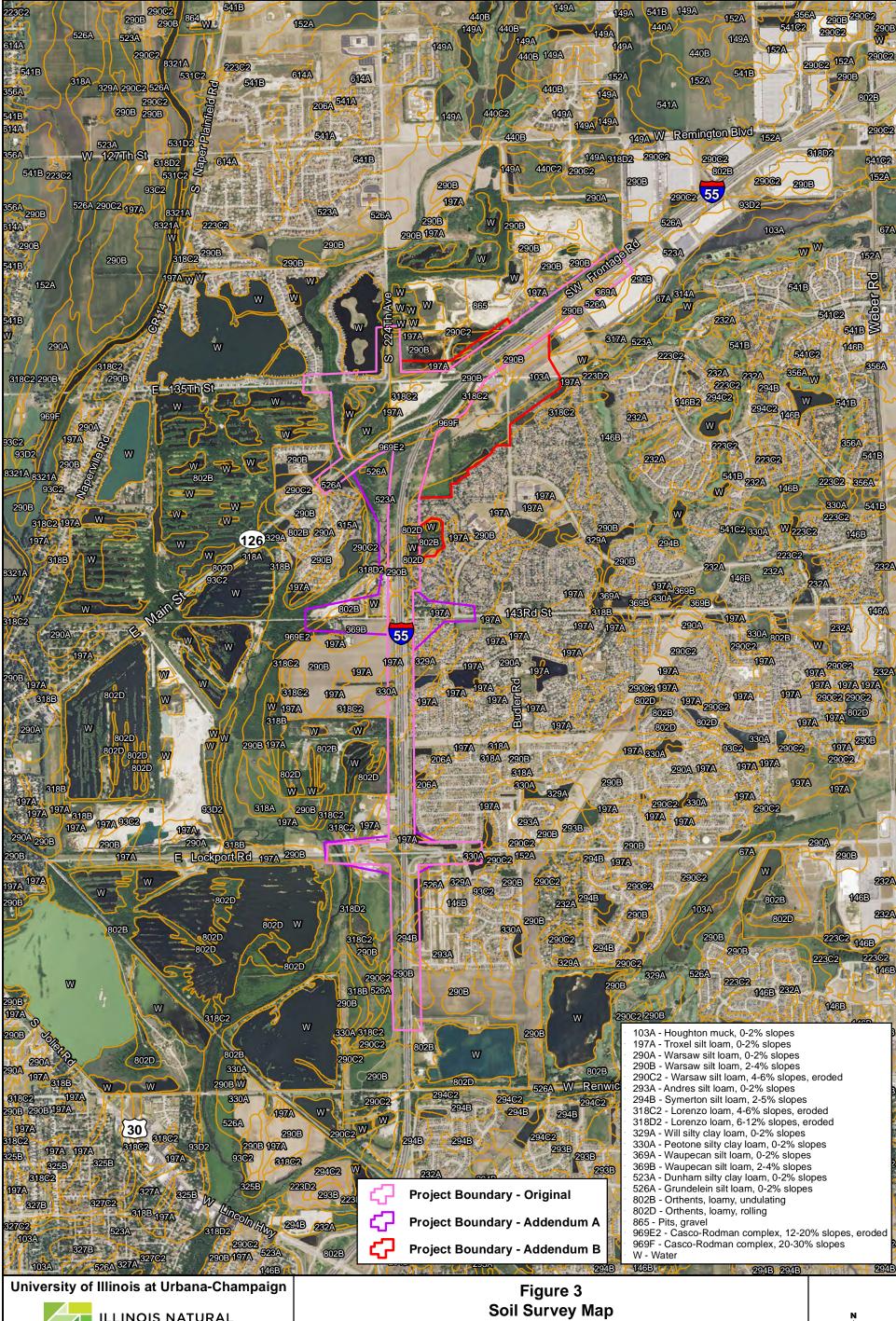
Wetland Science Program 1816 South Oak Street Champaign, Illinois 61820 Figure 2
National Wetlands Inventory Map
I-55 (FAI 55)
Will County

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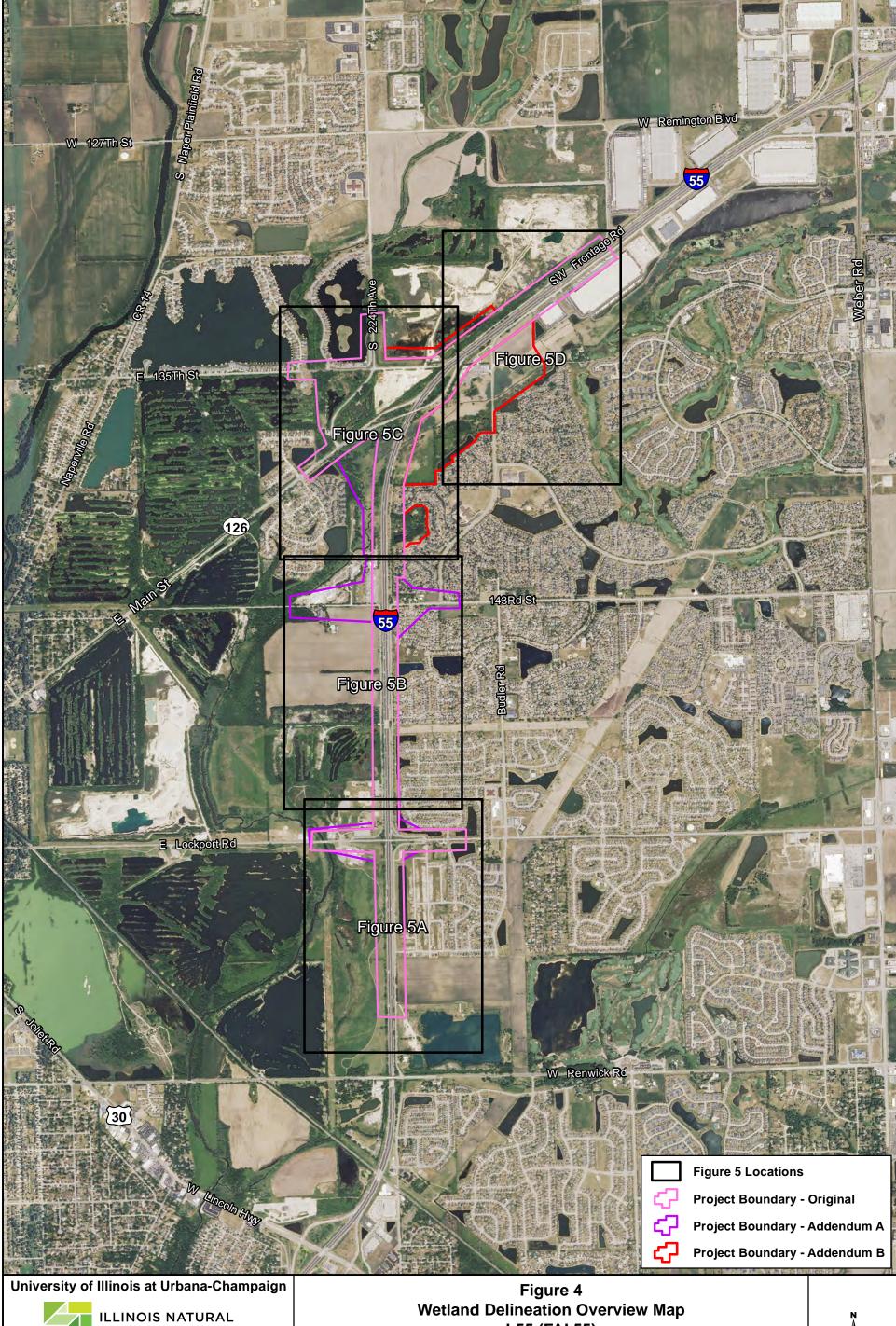
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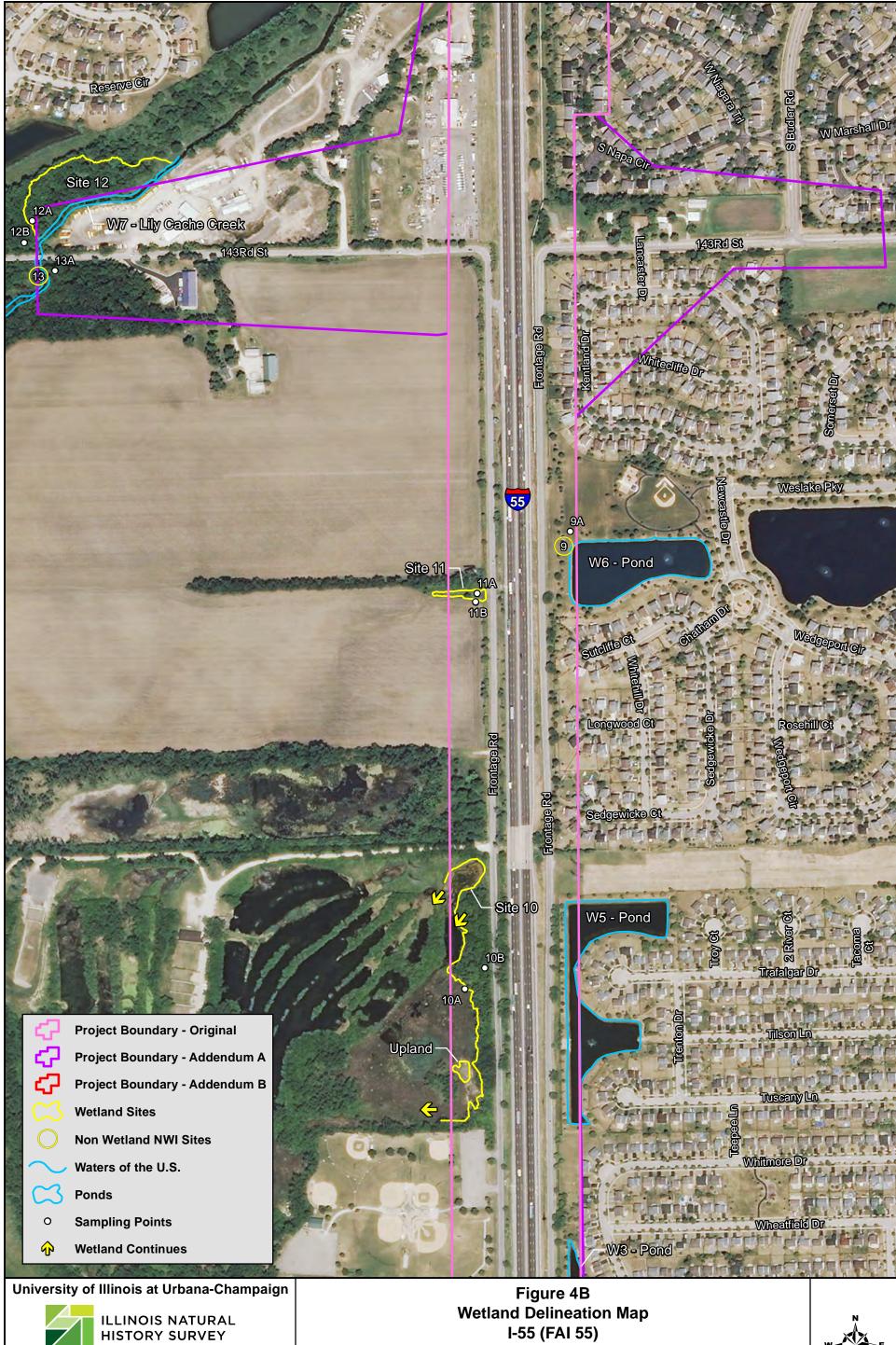


Wetland Science Program 1816 South Oak Street Champaign, Illinois 61820 Wetland Delineation Map I-55 (FAI 55) Will County

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I-55 (FAI 55) **Will County**

Seq. No: 16050B



Meters 100 Feet 400

