

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 08/20/2019

Applicant/Owner: City of Chicago State: IL Sampling Point: SE19-55 WET basin 1

Investigator(s): Conor Makepeace, Kim Shannon, Mead & Hunt, Inc. Section, Township, Range: Section 17, T40N, R12E

Landform (hillside, terrace, etc.): basin/retention Local relief (concave, convex, none): concave

Slope (%): <1% Lat: 41.95234369 Long: -87.90347322 Datum: WGS84

Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u>
Remarks: Large retention area; data point at edge of upland area.	

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

Tree Stratum	(Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
		= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>    </u> )			
1.				
2.				
3.				
4.				
5.				
		= Total Cover		
Herb Stratum	(Plot size: <u>5ft</u> )			
1.	<u>Phalaris arundinacea</u>	40	Yes	FACW
2.	<u>Juncus dudleyi</u>	30	Yes	FACW
3.	<u>Lythrum salicaria</u>	20	Yes	OBL
4.	<u>Solidago sempervirens</u>	10	No	FACW
5.				
6.				
7.				
8.				
9.				
10.				
		100 = Total Cover		
Woody Vine Stratum	(Plot size: <u>    </u> )			
1.				
2.				
		= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>20</u>	x 1 = <u>20</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>180</u> (B)
Prevalence Index = B/A = <u>1.80</u>	

**Hydrophytic Vegetation Indicators:**  
X 1 - Rapid Test for Hydrophytic Vegetation  
X 2 - Dominance Test is >50%  
X 3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present.

## SOIL

Sampling Point: SE19-55 WET basin 1

[illegible]

## HYDROLOGY

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

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 8/20/2019

Applicant/Owner: City of Chicago State: IL Sampling Point: SE19-55 WET (basin2)

Investigator(s): Conor Makepeace, Kim Shannon, Mead & Hunt, Inc. Section, Township, Range: Section 17, T40N, R12E

Landform (hillside, terrace, etc.): basin/retention Local relief (concave, convex, none): concave

Slope (%): <1% Lat: 41.95306555 Long: -87.90310479 Datum: WGS84

Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u>
Remarks: Within large basin/retention area.	

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

Tree Stratum	(Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
= Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>    </u> )			
1.				
2.				
3.				
4.				
5.				
= Total Cover				
Herb Stratum	(Plot size: <u>5ft</u> )			
1.	<u>Phragmites australis</u>	40	Yes	FACW
2.	<u>Solidago sempervirens</u>	40	Yes	FACW
3.	<u>Typha angustifolia</u>	15	No	OBL
4.	<u>Lythrum salicaria</u>	2	No	OBL
5.				
6.				
7.				
8.				
9.				
10.				
97 = Total Cover				
Woody Vine Stratum	(Plot size: <u>    </u> )			
1.				
2.				
= Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>17</u>	x 1 = <u>17</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>97</u> (A)	<u>177</u> (B)
Prevalence Index = B/A = <u>1.82</u>	

**Hydrophytic Vegetation Indicators:**  
X 1 - Rapid Test for Hydrophytic Vegetation  
X 2 - Dominance Test is >50%  
X 3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present. Some bare soil present.

## SOIL

Sampling Point: SE19-55 WET (basin2)

[illegible]

## HYDROLOGY

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



<p align="center"><b>U.S. Army Corps of Engineers</b>  <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b>          See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R</p>	<p align="center"><i>Requirement Control Symbol</i>  <b>EXEMPT</b>  <i>(Authority: AR 335-15, paragraph 5-2a)</i></p>
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Project/Site: <u>Chicago O'Hare International Airport (ORD)</u>	City/County: <u>Chicago/Cook</u>	Sampling Date: <u>8/21/2019</u>
Applicant/Owner: <u>City of Chicago</u>	State: <u>IL</u>	Sampling Point: <u>SE19-55 WET</u>
Investigator(s): <u>Kim Shannon, Conor Makepeace, Mead &amp; Hunt, Inc.</u> Section, Township, Range: <u>Section 17, T40N, R12E</u>		
Landform (hillside, terrace, etc.): <u>basin, detention</u>	Local relief (concave, convex, none): <u>concave</u>	
Slope (%): <u>&lt;1%</u> Lat: <u>41.95181659</u>	Long: <u>-87.90322857</u>	Datum: <u>WGS84</u>
Soil Map Unit Name: <u>805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%))</u>		NWI classification: <u>PEM</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u>      </u> (If no, explain in Remarks.)		
Are Vegetation <u>      </u> , Soil <u>      </u> , or Hydrology <u>      </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u>      </u>		
Are Vegetation <u>      </u> , Soil <u>      </u> , or Hydrology <u>      </u> naturally problematic? (If needed, explain any answers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u>    </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u>    </u>
Hydric Soil Present?	Yes <u>X</u>	No <u>    </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u>    </u>			
Remarks: constructed detention basin					

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

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	_____ = Total Cover		

  

<u>Sapling/Shrub Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	_____ = Total Cover		

  

<u>Herb Stratum</u> (Plot size: _____ 5ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Solidago sempervirens</i>	75	Yes	FACW
2. <i>Lythrum salicaria</i>	10	No	OBL
3. <i>Eupatorium serotinum</i>	10	No	FAC
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
	95 = Total Cover		

  

<u>Woody Vine Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
	_____ = Total Cover		

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: \_\_\_\_\_ 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_\_\_ 100.0% (A/B)

  

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____ 10	x 1 = _____ 10
FACW species _____ 75	x 2 = _____ 150
FAC species _____ 10	x 3 = _____ 30
FACU species _____ 0	x 4 = _____ 0
UPL species _____ 0	x 5 = _____ 0
Column Totals: _____ 95 (A)	_____ 190 (B)
Prevalence Index = B/A = _____ 2.00	

  

**Hydrophytic Vegetation Indicators:**

X 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is  $\geq 3.0^1$

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

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

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

  

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

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

Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present.

## SOIL

Sampling Point: SE19-55 WET

<b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
<b>Depth</b>	<b>Matrix</b>		<b>Redox Features</b>				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture      Remarks
0-4	10YR 3/1	100					Loamy/Clayey      loamy with clay
4-16	10YR 3/1	50					Loamy/Clayey      clay
	10YR 5/1	48	10YR 4/6	2	C	M	Prominent redox concentrations

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

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

### Hydric Soil Indicators:

- ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4)
- ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5)
- ☐ Black Histic (A3) ☐ Stripped Matrix (S6)
- ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7)
- ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1)
- ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Below Dark Surface (A11) ☒ X Depleted Matrix (F3)
- ☐ Thick Dark Surface (A12) ☒ X Redox Dark Surface (F6)
- ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7)
- ☐ 5 cm Mucky Peat or Peat (S3) ☐ Redox Depressions (F8)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (F22)
- ☐ Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Hydric soils are present. Hydric soils indicators Depleted Matrix (F3) and Redox Dark Surface (F6) are satisfied.	

## HYDROLOGY

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

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 9/19/2019  
 Applicant/Owner: City of Chicago State: IL Sampling Point: SE19-120 UPL  
 Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E  
 Landform (hillside, terrace, etc.): plain/flat Local relief (concave, convex, none): none  
 Slope (%): <1% Lat: 41.95740369 Long: -87.88201936 Datum: WGS84  
 Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)  
 Are Vegetation X, Soil X, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No X  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
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Remarks:  
Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Tree removal and grubbing in July followed by grass seeding/meshing.

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

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
= Total Cover			

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
= Total Cover			

Herb Stratum (Plot size: <u>5ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Lolium perenne</u>	85	Yes	FACU
2. <u>Digitaria cognata</u>	5	No	UPL
3. <u>Elymus virginicus</u>	5	No	FACW
4. <u>Typha angustifolia</u>	3	No	OBL
5. <u>Persicaria lapathifolia</u>	2	No	FACW
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
100 = Total Cover			

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
= Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>3</u>	x 1 = <u>3</u>
FACW species <u>7</u>	x 2 = <u>14</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>85</u>	x 4 = <u>340</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>100</u> (A)	<u>382</u> (B)
Prevalence Index = B/A = <u>3.82</u>	

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation \_\_\_\_\_

2 - Dominance Test is >50% \_\_\_\_\_

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

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

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

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

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

Remarks: (Include photo numbers here or on a separate sheet.)  
Community Type: developed land HGM Type: Hydrophytic vegetation is not present. Solidago sempervirens is also present.

## SOIL

Sampling Point: SE19-120 UPL

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Depth (inches):	<input type="text"/>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Wetland hydrology is neither present nor indicated.			

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Requirement Control Symbol

EXEMPT

(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Chicago O'Hare International Airport (ORD)

City/County: Chicago/Cook or DuPage

Sampling Date: 9/19/2019

Applicant/Owner: City of Chicago

State: IL

Sampling Point: SE19-120 WET

Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc.

Section, Township, Range: Section 16, T40N, R12E

Landform (hillside, terrace, etc.): shallow basin

Local relief (concave, convex, none): concave

Slope (%): <1% Lat: 41.95746304

Long: -87.88204706

Datum: WGS84

Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%))

NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year?

Yes No X (If no, explain in Remarks.)

Are Vegetation X, Soil X, or Hydrology significantly disturbed?

Are "Normal Circumstances" present? Yes No X

Are Vegetation, Soil, or Hydrology naturally problematic?

(If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area within a Wetland?	Yes X No
Hydric Soil Present?	Yes X No		
Wetland Hydrology Present?	Yes X No		

Remarks:

Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Cottonwood stumps present from earlier tree removal. Area not meshed.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	<div>Dominance Test worksheet:</div> <div>Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)</div> <div>Total Number of Dominant Species Across All Strata: 1 (B)</div> <div>Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)</div>																
1.																					
2.																					
3.																					
4.																					
5.																					
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: )				<div>Prevalence Index worksheet:</div> <table> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species 80</td> <td>x 1 = 80</td> </tr> <tr> <td>FACW species 10</td> <td>x 2 = 20</td> </tr> <tr> <td>FAC species 10</td> <td>x 3 = 30</td> </tr> <tr> <td>FACU species 0</td> <td>x 4 = 0</td> </tr> <tr> <td>UPL species 0</td> <td>x 5 = 0</td> </tr> <tr> <td>Column Totals: 100 (A)</td> <td>130 (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = 1.30</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species 80	x 1 = 80	FACW species 10	x 2 = 20	FAC species 10	x 3 = 30	FACU species 0	x 4 = 0	UPL species 0	x 5 = 0	Column Totals: 100 (A)	130 (B)	Prevalence Index = B/A = 1.30	
Total % Cover of:	Multiply by:																				
OBL species 80	x 1 = 80																				
FACW species 10	x 2 = 20																				
FAC species 10	x 3 = 30																				
FACU species 0	x 4 = 0																				
UPL species 0	x 5 = 0																				
Column Totals: 100 (A)	130 (B)																				
Prevalence Index = B/A = 1.30																					
1.																					
2.																					
3.																					
4.																					
5.																					
		=Total Cover																			
Herb Stratum	(Plot size: 5ft )				<div>Hydrophytic Vegetation Indicators:</div> <div>X 1 - Rapid Test for Hydrophytic Vegetation</div> <div>X 2 - Dominance Test is &gt;50%</div> <div>X 3 - Prevalence Index is ≤3.0<sup>1</sup></div> <div>4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</div> <div>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</div> <div><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</div>																
1. <i>Typha angustifolia</i>		80	Yes	OBL																	
2. <i>Cyperus esculentus</i>		10	No	FACW																	
3. <i>Populus deltoides</i>		10	No	FAC																	
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
		100 =Total Cover																			
Woody Vine Stratum	(Plot size: )				<div>Hydrophytic Vegetation Present? Yes X No</div>																
1.																					
2.																					
		=Total Cover																			

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

Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present. There is a change of 1-2feet in elevation over 30 ft between data points.

**SOIL**

Sampling Point: SE19-120 WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	7.5YR 2.5/1	100					Loamy/Clayey	silty clay loam
10-16	7.5YR 2.5/1	98	7.5YR 5/6	2	C	M		Prominent redox concentrations
16-22	10YR 4/2	95	10YR 5/6	5	C	M		Prominent redox concentrations
								above 2 layers are clay loam

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

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	wetland hydrology must be present,	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)	unless disturbed or problematic.	

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No _____
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Remarks:  
Fill dirt deposits overlaid a mixed profile. Hydric soils are present. Hydric soils indicators Thick Dark Surface (A12) and Redox Dark Surface (F6) are satisfied. (Midwest supplement change)

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

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

Remarks:  
Wetland hydrology is indicated.

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 9/23/2019  
 Applicant/Owner: City of Chicago State: IL Sampling Point: SE19-125 UPL  
 Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E  
 Landform (hillside, terrace, etc.): toeslope Local relief (concave, convex, none): flat  
 Slope (%): <1% Lat: 41.96252168 Long: -87.87778066 Datum: WGS84  
 Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil X, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Apparently impacted by some construction activities and fill for service road off Mannheim Rd. Data point taken in old wetland SE01.	

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

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rhamnus cathartica</u>	85	Yes	FAC
2. _____			
3. _____			
4. _____			
5. _____			
	85 = Total Cover		
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)</b>			
1. <u>Rhamnus cathartica</u>	20	Yes	FAC
2. _____			
3. _____			
4. _____			
5. _____			
	20 = Total Cover		
<b>Herb Stratum (Plot size: <u>5 ft</u>)</b>			
1. <u>Glechoma hederacea</u>	30	Yes	FACU
2. <u>Solidago sempervirens</u>	10	Yes	FACW
3. <u>Persicaria hydropiper</u>	5	No	OBL
4. <u>Rhamnus cathartica</u>	2	No	FAC
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
	47 = Total Cover		
<b>Woody Vine Stratum (Plot size: _____)</b>			
1. _____			
2. _____			
	= Total Cover		

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>5</u>	x 1 = <u>5</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>107</u>	x 3 = <u>321</u>
FACU species <u>30</u>	x 4 = <u>120</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>152</u> (A)	<u>466</u> (B)
Prevalence Index = B/A = <u>3.07</u>	

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

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

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

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

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

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

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

 Community Type: HGM Type: depressional Hydrophytic vegetation is present; mostly bare soil.

## SOIL

Sampling Point: SE19-125 UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix		Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	
0-5	10YR 3/1	100					Loamy/Clayey
5-10	10YR 3/1	70					Loamy/Clayey
	10YR 4/2	25	10YR 4/6	5	C	M	Prominent redox concentrations
10-12	10YR 2/1	100					Loamy/Clayey

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

Hydric Soil Indicators:			Indicators for Problematic Hydric Soils <sup>3</sup> :		
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)			
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)				
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)				
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)				
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)				
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)				

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

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Remarks:</b> Hydric soils are present. Hydric soils indicator Redox Dark Surface (F6) is satisfied.	

## HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)				
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)				
<b>Field Observations:</b>					
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>			
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
<b>Remarks:</b> Wetland hydrology is neither present nor indicated.					



<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook or DuPage Sampling Date: 9/23/2019

Applicant/Owner: City of Chicago State: IL Sampling Point: SE19-125 WET

Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E

Landform (hillside, terrace, etc.): basin Local relief (concave, convex, none): concave

Slope (%): <1% Lat: 41.96244715 Long: -87.87782308 Datum: WGS84

Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes      No X (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u>
Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019.	

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

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rhamnus cathartica</u>	25	Yes	FAC
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
	25 = Total Cover		
<b>Sapling/Shrub Stratum (Plot size: <u>15 ft</u>)</b>			
1. <u>Rhamnus cathartica</u>	5	Yes	FAC
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
	5 = Total Cover		
<b>Herb Stratum (Plot size: <u>5 ft</u>)</b>			
1. <u>Phragmites australis</u>	70	Yes	FACW
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
6. <u>    </u>			
7. <u>    </u>			
8. <u>    </u>			
9. <u>    </u>			
10. <u>    </u>			
	70 = Total Cover		
<b>Woody Vine Stratum (Plot size: <u>    </u>)</b>			
1. <u>    </u>			
2. <u>    </u>			
	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>70</u>	x 2 = <u>140</u>
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>230</u> (B)
Prevalence Index = B/A = <u>2.30</u>	

**Hydrophytic Vegetation Indicators:**  
1 - Rapid Test for Hydrophytic Vegetation  
X 2 - Dominance Test is >50%  
X 3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No

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

Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present. Leaf litter covers bare soil in first layer. About 40ft separates paired data points and about 6 inches to a foot change in elevation.

## SOIL

Sampling Point: SE19-125 WET

[illegible]

## HYDROLOGY

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

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 9/20/2019

Applicant/Owner: City of Chicago State: IL Sampling Point: SE 62 UPL

Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E

Landform (hillside, terrace, etc.): island/peninsula Local relief (concave, convex, none): convex

Slope (%): <1% Lat: 41.95954979 Long: -87.88103459 Datum: WGS84

Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: \_\_\_\_\_

Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019.	

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

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
= Total Cover			
<b>Sapling/Shrub Stratum (Plot size: 15ft)</b>			
1. <u>Rhamnus cathartica</u>	90	Yes	FAC
2. <u>Lonicera X bella</u>	10	No	FACU
3. _____			
4. _____			
5. _____			
= Total Cover			
<b>Herb Stratum (Plot size: 5ft)</b>			
1. <u>Solidago sempervirens</u>	20	Yes	FACW
2. <u>Geum aleppicum</u>	15	Yes	FACW
3. <u>Dipsacus laciniatus</u>	15	Yes	UPL
4. <u>Rhamnus cathartica</u>	10	No	FAC
5. <u>Solidago canadensis</u>	5	No	FACU
6. <u>Cirsium arvense</u>	5	No	FACU
7. <u>Leucanthemum vulgare</u>	5	No	UPL
8. <u>Eupatorium serotinum</u>	2	No	FAC
9. _____			
10. _____			
= Total Cover			
<b>Woody Vine Stratum (Plot size: _____)</b>			
1. _____			
2. _____			
= Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>35</u>	x 2 = <u>70</u>
FAC species <u>102</u>	x 3 = <u>306</u>
FACU species <u>20</u>	x 4 = <u>80</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>177</u> (A)	<u>556</u> (B)
Prevalence Index = B/A = <u>3.14</u>	

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

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

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

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

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

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

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

Community Type: upland forest HGM Type: N/A Hydrophytic vegetation is present; 20% bare soil. About 1-2ft higher than paired wetland point and 20ft separates.

## SOIL

Sampling Point: SE 62 UPL

<b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators).								
<b>Depth</b>	<b>Matrix</b>		<b>Redox Features</b>				<b>Texture</b>	<b>Remarks</b>
(inches)	<b>Color (moist)</b>	<b>%</b>	<b>Color (moist)</b>	<b>%</b>	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/2	100					Loamy/Clayey	loamy clay
4-16	10YR 4/2	100					Loamy/Clayey	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.							<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
<b>Hydric Soil Indicators:</b>							<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Coast Prairie Redox (A16)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> Iron-Manganese Masses (F12)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Red Parent Material (F21)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Dark Surface (S7)			<input type="checkbox"/> Very Shallow Dark Surface (F22)		
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Loamy Mucky Mineral (F1)			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> 2 cm Muck (A10)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)					
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Depleted Matrix (F3)					
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Redox Dark Surface (F6)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Depleted Dark Surface (F7)					
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			<input type="checkbox"/> Redox Depressions (F8)					
<b>Restrictive Layer (if observed):</b>								
Type: _____						<b>Hydric Soil Present?</b> Yes ____ No __X__		
Depth (inches): _____								
<b>Remarks:</b> Data point is on a peninsula into the wetland. Hydric soils are not present. Does not meet hydric soils criteria.								

## HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)				
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)				
<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)			<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					
Wetland hydrology neither present nor indicated.					

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 9/20/2019  
 Applicant/Owner: City of Chicago State: IL Sampling Point: SE62 WET  
 Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E  
 Landform (hillside, terrace, etc.): basin Local relief (concave, convex, none): concave  
 Slope (%): <1% Lat: 41.95953082 Long: -87.88109393 Datum: WGS84  
 Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes      No X (If no, explain in Remarks.)  
 Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u>
Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019.	

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

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>    </u>			
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
=Total Cover			
Sapling/Shrub Stratum (Plot size: <u>    </u> )			
1. <u>    </u>			
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
=Total Cover			
Herb Stratum (Plot size: <u>5ft</u> )			
1. <u>Typha angustifolia</u>	90	Yes	OBL
2. <u>Solidago sempervirens</u>	5	No	FACW
3. <u>Eupatorium serotinum</u>	5	No	FAC
4. <u>    </u>			
5. <u>    </u>			
6. <u>    </u>			
7. <u>    </u>			
8. <u>    </u>			
9. <u>    </u>			
10. <u>    </u>			
100 =Total Cover			
Woody Vine Stratum (Plot size: <u>15ft</u> )			
1. <u>Parthenocissus quinquefolia</u>	5	Yes	FACU
2. <u>    </u>			
5 =Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL species 90 x 1 = 90  
 FACW species 5 x 2 = 10  
 FAC species 5 x 3 = 15  
 FACU species 5 x 4 = 20  
 UPL species 0 x 5 = 0  
 Column Totals: 105 (A) 135 (B)  
 Prevalence Index = B/A = 1.29

**Hydrophytic Vegetation Indicators:**  
     1 - Rapid Test for Hydrophytic Vegetation  
     2 - Dominance Test is >50%  
X 3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present.

## SOIL

Sampling Point: SE62 WET

<b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features					
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	7.5YR 2.5/1	100					Loamy/Clayey	clay loam
13-20	10YR 4/2	70	7.5YR 4/4	30	C	M	Loamy/Clayey	Distinct redox concentrations

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

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- ☐ Histosol (A1)                      ☐ Sandy Gleyed Matrix (S4)
- ☐ Histic Epipedon (A2)          ☐ Sandy Redox (S5)
- ☐ Black Histic (A3)                ☐ Stripped Matrix (S6)
- ☐ Hydrogen Sulfide (A4)          ☐ Dark Surface (S7)
- ☐ Stratified Layers (A5)         ☐ Loamy Mucky Mineral (F1)
- ☐ 2 cm Muck (A10)                ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)
- ☒ Thick Dark Surface (A12)       ☐ Redox Dark Surface (F6)
- ☐ Sandy Mucky Mineral (S1)      ☐ Depleted Dark Surface (F7)
- ☐ 5 cm Mucky Peat or Peat (S3)   ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (F22)
- ☐ Other (Explain in Remarks)

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

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Hydric soils are present. Hydric soils indicators Thick Dark Surface (A12) is satisfied.	

## HYDROLOGY

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

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook or DuPage Sampling Date: 9/19/2019  
 Applicant/Owner: City of Chicago State: IL Sampling Point: SE64 UPL  
 Investigator(s): Brauna Hartzell, Conor Makepeace, Kim Shannon, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E  
 Landform (hillside, terrace, etc.): midslope Local relief (concave, convex, none): convex  
 Slope (%): 2-3 Lat: 41.95775889 Long: -87.88096932 Datum: WGS84  
 Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil X, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_\_ No X  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Area has been grubbed and gravel deposited. Wood chips on surface. Rutting present.	

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

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
= Total Cover				<b>Prevalence Index worksheet:</b> <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>2</u></td> <td>x 2 = <u>4</u></td> </tr> <tr> <td>FAC species <u>13</u></td> <td>x 3 = <u>39</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>33</u></td> <td>x 5 = <u>165</u></td> </tr> <tr> <td>Column Totals: <u>98</u> (A)</td> <td><u>408</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.16</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>2</u>	x 2 = <u>4</u>	FAC species <u>13</u>	x 3 = <u>39</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>33</u>	x 5 = <u>165</u>	Column Totals: <u>98</u> (A)	<u>408</u> (B)	Prevalence Index = B/A = <u>4.16</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>2</u>	x 2 = <u>4</u>																			
FAC species <u>13</u>	x 3 = <u>39</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>33</u>	x 5 = <u>165</u>																			
Column Totals: <u>98</u> (A)	<u>408</u> (B)																			
Prevalence Index = B/A = <u>4.16</u>																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
= Total Cover																				
Herb Stratum (Plot size: <u>5ft</u> )																				
1. <u>Solidago canadensis</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>																
2. <u>Digitaria cognata</u>	<u>25</u>	<u>Yes</u>	<u>UPL</u>																	
3. <u>Melilotus officinalis</u>	<u>15</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Eupatorium serotinum</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
5. <u>Dipsacus laciniatus</u>	<u>8</u>	<u>No</u>	<u>UPL</u>																	
6. <u>Ambrosia artemisiifolia</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
7. <u>Populus deltoides</u>	<u>3</u>	<u>No</u>	<u>FAC</u>																	
8. <u>Solidago sempervirens</u>	<u>2</u>	<u>No</u>	<u>FACW</u>																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
98 = Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>																
2. _____	_____	_____	_____																	
= Total Cover																				

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

Community Type: developed land HGM Type: Hydrophytic vegetation is not present. About 20ft separates data points with 2ft elevation change.

## SOIL

Sampling Point: SE64 UPL

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Wetland hydrology is neither present nor indicated.			



<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/Cook Sampling Date: 9/19/2019  
 Applicant/Owner: City of Chicago State: IL Sampling Point: SE 64 WET  
 Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 16, T40N, R12E  
 Landform (hillside, terrace, etc.): basin Local relief (concave, convex, none): concave  
 Slope (%): <1% Lat: 41.95773078 Long: -87.88099871 Datum: WGS84  
 Soil Map Unit Name: 805A - Orthents, clayey, nearly level (Predominantly Non-hydric (6%)) NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes      No X (If no, explain in Remarks.)  
 Are Vegetation     , Soil X, or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes      No X  
 Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u>
Remarks: Climatic/hydrologic conditions are not typical due to an above average amount of rainfall during September 2019. Area has been grubbed and gravel deposited along with wood chips.	

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

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>    </u>			
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
= Total Cover			
Sapling/Shrub Stratum (Plot size: <u>    </u> )			
1. <u>    </u>			
2. <u>    </u>			
3. <u>    </u>			
4. <u>    </u>			
5. <u>    </u>			
= Total Cover			
Herb Stratum (Plot size: <u>5 ft</u> )			
1. <u>Typha angustifolia</u>	50	Yes	OBL
2. <u>Solidago sempervirens</u>	20	Yes	FACW
3. <u>Hordeum jubatum</u>	5	No	FAC
4. <u>Carex stipata</u>	5	No	OBL
5. <u>Eupatorium serotinum</u>	5	No	FAC
6. <u>Phragmites australis</u>	3	No	FACW
7. <u>Rhamnus cathartica</u>	2	No	FAC
8. <u>Leucanthemum vulgare</u>	2	No	UPL
9. <u>Rumex crispus</u>	1	No	FAC
10. <u>    </u>			
93 = Total Cover			
Woody Vine Stratum (Plot size: <u>    </u> )			
1. <u>    </u>			
2. <u>    </u>			
= Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>55</u>	x 1 = <u>55</u>
FACW species <u>23</u>	x 2 = <u>46</u>
FAC species <u>13</u>	x 3 = <u>39</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>2</u>	x 5 = <u>10</u>
Column Totals: <u>93</u> (A)	<u>150</u> (B)
Prevalence Index = B/A = <u>1.61</u>	

**Hydrophytic Vegetation Indicators:**  
X 1 - Rapid Test for Hydrophytic Vegetation  
X 2 - Dominance Test is >50%  
X 3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No

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

Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present. Some bare areas with standing water.

## SOIL

Sampling Point: SE 64 WET

[illegible]

## HYDROLOGY

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

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/DuPage Sampling Date: 8/14/2019  
 Applicant/Owner: City of Chicago State: IL Sampling Point: SW19-39 UPL  
 Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 12, T40N, R11E  
 Landform (hillside, terrace, etc.): midslope Local relief (concave, convex, none): convex  
 Slope (%): 30-40% Lat: 41.96802031 Long: -87.93646915 Datum: WGS84  
 Soil Map Unit Name: 805B - Orthents, clayey, undulating (Predominantly Non-hydric (6%)) NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation X, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: Area mown regularly.	

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

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
				= Total Cover
<b>Herb Stratum (Plot size: <u>5ft</u>)</b>				
1. <u>Schedonorus arundinaceus</u>	<u>90</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Trifolium repens</u>	<u>10</u>	<u>No</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
				100 = Total Cover
<b>Woody Vine Stratum (Plot size: _____)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
				= Total Cover

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>100</u>	x 4 = <u>400</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>400</u> (B)
Prevalence Index = B/A = <u>4.00</u>	

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is >50%  
 \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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

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

Community Type: developed land HGM Type: N/A Hydrophytic vegetation is not present. 10ft separates and 3ft higher in elevation from wetland datapoint.

## SOIL

Sampling Point: SW19-39 UPL

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			<u>Secondary Indicators (minimum of two required)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)				
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)				
<b>Field Observations:</b>					
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>			
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
<b>Remarks:</b> Wetland hydrology is neither present nor indicated.					

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/DuPage Sampling Date: 8/14/2019

Applicant/Owner: City of Chicago State: IL Sampling Point: SW19-39 WET

Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 12, T40N, R11E

Landform (hillside, terrace, etc.): swale Local relief (concave, convex, none): concave

Slope (%): <1% Lat: 41.96804399 Long: -87.93646519 Datum: WGS84

Soil Map Unit Name: 805B - Orthents, clayey, undulating (Predominantly Non-hydric (6%)) NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)

Are Vegetation     , Soil     , or Hydrology      significantly disturbed? Are "Normal Circumstances" present? Yes X No     

Are Vegetation     , Soil     , or Hydrology      naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u>
Remarks:	

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

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
				= Total Cover
<b>Sapling/Shrub Stratum (Plot size: <u>    </u>)</b>				
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
				= Total Cover
<b>Herb Stratum (Plot size: <u>5ft</u>)</b>				
1. <u>Typha angustifolia</u>	<u>45</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Eleocharis obtusa</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Epilobium coloratum</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>	
4. <u>Lythrum salicaria</u>	<u>15</u>	<u>No</u>	<u>OBL</u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
				100 = Total Cover
<b>Woody Vine Stratum (Plot size: <u>    </u>)</b>				
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
				= Total Cover

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>100</u>	x 1 = <u>100</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>100</u> (A)	<u>100</u> (B)

 Prevalence Index = B/A = 1.00

**Hydrophytic Vegetation Indicators:**  
X 1 - Rapid Test for Hydrophytic Vegetation  
X 2 - Dominance Test is >50%  
X 3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No

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

Community Type: wet meadow HGM Type: depressional Hydrophytic vegetation is present. Lemna sp. present on standing water.

## SOIL

Sampling Point: SW19-39 WET

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<u>2</u>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<u>14</u>
Saturation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<u>0</u>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Wetland hydrology is present and indicated. Standing water present throughout most of wetland.			

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Midwest Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	<b>Requirement Control Symbol</b> <b>EXEMPT</b> <b>(Authority: AR 335-15, paragraph 5-2a)</b>
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Project/Site: Chicago O'Hare International Airport (ORD) City/County: Chicago/DuPage Sampling Date: 10/3/2019

Applicant/Owner: City of Chicago State: IL Sampling Point: SW19-146 UPL

Investigator(s): Brauna Hartzell, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: Section 12, T40N, R11E

Landform (hillside, terrace, etc.): shoulder Local relief (concave, convex, none): convex

Slope (%): 10 Lat: 41.97124266 Long: -87.93575206 Datum: WGS84

Soil Map Unit Name: 805B - Orthents, clayey, undulating (Predominantly Non-hydric (6%)) NWI classification: \_\_\_\_\_

Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No X (If no, explain in Remarks.)

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_

Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: Wetter than normal. Area mown occasionally. Stockpile, grading	

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

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
		= Total Cover		
Sapling/Shrub Stratum	(Plot size: _____)			
1.				
2.				
3.				
4.				
5.				
		= Total Cover		
Herb Stratum	(Plot size: <u>5ft</u> )			
1.	<u>Securigera varia</u>	70	Yes	UPL
2.	<u>Poa pratensis</u>	20	Yes	FAC
3.	<u>Taraxacum officinale</u>	5	No	FACU
4.	<u>Plantago lanceolata</u>	3	No	FACU
5.	<u>Leucanthemum vulgare</u>	2	No	UPL
6.				
7.				
8.				
9.				
10.				
		100 = Total Cover		
Woody Vine Stratum	(Plot size: _____)			
1.				
2.				
		= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  
 Total Number of Dominant Species Across All Strata: 2 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**  

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>8</u>	x 4 = <u>32</u>
UPL species <u>72</u>	x 5 = <u>360</u>
Column Totals: <u>100</u> (A)	<u>452</u> (B)
Prevalence Index = B/A = <u>4.52</u>	

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 \_\_\_ 2 - Dominance Test is >50%  
 \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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

Remarks: (Include photo numbers here or on a separate sheet.)  
 Community Type: developed land HGM Type: Hydrophytic vegetation is not present.

## SOIL

Sampling Point: SW19-146 UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix		Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture
0-4	10YR 2/1	100					Loamy/Clayey
4-8	10YR 4/3	100					Loamy/Clayey
8-14	10YR 4/3	100					Sandy
							coarse sand with small pebbles
							and 1-2" gravel

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

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

☐ Histosol (A1)
 ☐ Sandy Gleyed Matrix (S4)

☐ Histic Epipedon (A2)
 ☐ Sandy Redox (S5)

☐ Black Histic (A3)
 ☐ Stripped Matrix (S6)

☐ Hydrogen Sulfide (A4)
 ☐ Dark Surface (S7)

☐ Stratified Layers (A5)
 ☐ Loamy Mucky Mineral (F1)

☐ 2 cm Muck (A10)
 ☐ Loamy Gleyed Matrix (F2)

☐ Depleted Below Dark Surface (A11)
 ☐ Depleted Matrix (F3)

☐ Thick Dark Surface (A12)
 ☐ Redox Dark Surface (F6)

☐ Sandy Mucky Mineral (S1)
 ☐ Depleted Dark Surface (F7)

☐ 5 cm Mucky Peat or Peat (S3)
 ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

☐ Coast Prairie Redox (A16)

☐ Iron-Manganese Masses (F12)

☐ Red Parent Material (F21)

☐ Very Shallow Dark Surface (F22)

☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**

Yes ☐ No ☒

Remarks:
 

Hydric soils are not present. Does not meet hydric soils criteria.

## HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text" value=""/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<input type="text" value="10"/>
Saturation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches):	<input type="text" value="0"/>
(includes capillary fringe)		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Wetland hydrology is present. Heavy rain over 2-3 days prior.			



Midwest – Version 2.0

## SOIL

Sampling Point: SW 19-146 WET

[illegible]

## HYDROLOGY

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